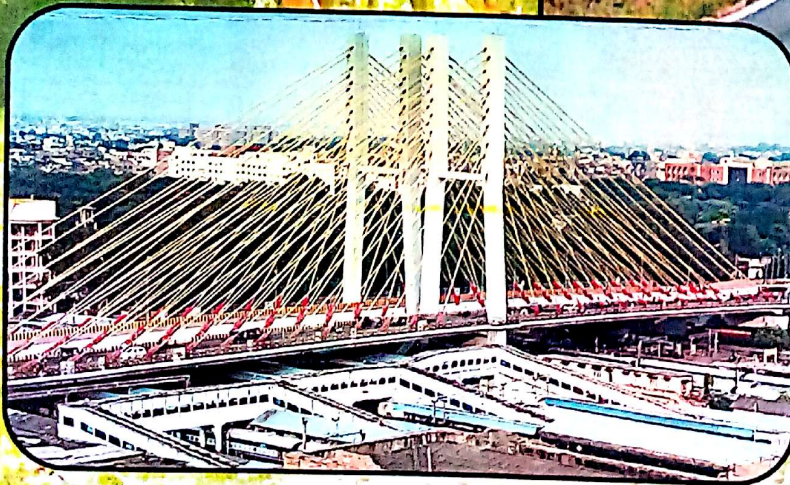




# **Govt. of Maharashtra Public Works Department State Schedule of Rates 2019-20**



**For State of Maharashtra  
(w.e.f. 01/07/2019)**

सार्वजनिक बांधकाम विभागाची सन २०१९-२० साठी  
राज्य दरसूची प्रसिध्द करण्याबाबत.

महाराष्ट्र शासन  
सार्वजनिक बांधकाम विभाग  
शासन परिपत्रक क्रमांक. रादसू-२०१८/प्र.क्र.२७/नियोजन-३  
मादाम कामा मार्ग, हुतात्मा राजगुरु चौक,  
मंत्रालय, मुंबई-४०० ०३२.  
दिनांक :- २९/०६/२०१९

**वाचा :-** शासन पत्र क्रमांक रादसू २०१८/प्र.क्र.२७/ नियोजन-३, दि. ०७.०६.२०१९.

**प्रस्तावना :-**

सार्वजनिक बांधकाम विभागामार्फत संपूर्ण राज्यात रस्ते, पूल, इमारतींची बांधकामे व दुरुस्तीची कामे केली जातात. त्यामुळे सर्व जिल्ह्यातील दरसूचीत समानता आणण्यासाठी व आवश्यक बाबींचे सुसूत्रीकरण करण्यासाठी मागील दोन वर्षांपासून संपूर्ण राज्यासाठी एकच दरसूची (SSR) तयार करण्यात येत आहे. यासाठी विविध सा.बां. मंडळातील अधीक्षक अभियंत्यांची समिती तयार करण्यात येते. समिती मार्फत दरसूचीतील विविध बाबींचा, साहित्याच्या/मजूरीच्या/यंत्रसामुग्रीच्या दरांमधील वाढीचा अभ्यास करून तसेच कंत्राटदाराच्या प्रतिनिधींच्या मागण्यांचा विचार करून विविध बाबींचे दर ठरविण्यात येतात.

तसेच विभागात प्रगत तंत्रज्ञान अंगिकारण्यासाठी बांधकामांच्या नविन बाबींचा अभ्यास करून त्यांचा आवश्यकतेनुसार समावेश राज्य दरसूचीत करण्यात येतो.

सार्वजनिक बांधकाम विभाग राज्यातील सर्व विभागांच्या इमारतींची बांधकामे करीत असून शासनाचे इतर विभाग तसेच स्थानिक स्वराज्य संस्था राज्य दरसूचीचा वापर करतात. ह्या सर्व बाबींवर सखोल विचार होऊन पुढील आदेश निर्गमित करण्यात येत आहेत.

**आदेश:-**

- १) राज्यदरसूची सन २०१९-२० दिनांक १ जुलै, २०१९ पासून लागू करण्यात येत असून ती शासनाच्या वेबसाईट [www.mahapwd.com](http://www.mahapwd.com) वर उपलब्ध करण्यात येत आहे. ही दरसूची संपूर्ण राज्यात सार्वजनिक बांधकाम विभागांमार्फत केल्या जाणा-या खुद्द सार्वजनिक बांधकाम विभाग तसेच अन्य विभागांच्या कामांकरीता लागू राहिल. तसेच राज्याचे इतर विभाग, महामंडळे इ. व स्थानिक स्वराज्य संस्था मार्फत करण्यात येणारी बांधकामे, देखभाल दुरुस्तीची कामे यासाठी सदर दरसूची वापरता येईल.

- २) विविध जिल्हयातील विविध भौगोलिक परिस्थितीनुसार दरसूचीतील संबंधीत बाबींच्या दरात बदल करण्याचे अधिकार सर्व अधीक्षक अभियंता (सा.बां) यांना प्रदान करण्यात येत असून त्यांनी परिस्थितीचा अभ्यास करून त्यांच्या कार्यक्षेत्रातील कामांकरीता याबाबत योग्य निर्णय घ्यावा.
- ३) दरसूचीच्या टिप्पणीत दिनांक ०१.०७.२०१९ रोजीचे सिमेंट/स्टील/डांबराचे (GST रहीत) तारांकीत दर (Star Rates) घेण्यात आले आहेत. तसेच स्थानिक क्षेत्रानुसार मूळ दरात करावयाची वाढ, साहित्याच्या अंतरामुळे दरांमध्ये करावयाची वाढ, अंदाजपत्रके तयार करतांना घ्यावयाची दक्षता, साहित्याची तपासणी करणे, निविदा प्रपत्रे तयार करतांना घ्यावयाची दक्षता, रोड फर्निचर इ. बाबींसाठी आवश्यक सूचना नमूद करण्यात आल्या आहेत. ह्या सूचनांचा अभ्यास करून सर्व मुख्य अभियंता/अधीक्षक अभियंता/कार्यकारी अभियंता यांनी बांधकामाच्या अंदाजपत्रकांना तांत्रिक मान्यता प्रदान करावी.

सदर शासन परिपत्रक महाराष्ट्र शासनाच्या [www.maharashtra.gov.in](http://www.maharashtra.gov.in) या संकेत स्थळावर उपलब्ध करण्यात आला असून त्याचा सांकेतांक २०१९०६२९१६४५११४११८ असा आहे. हा आदेश डिजीटल स्वाक्षरीने साक्षांकित करून काढण्यात येत आहे.

**TOPALE SURENDRA  
LAXMAN**

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( सुरेंद्र टोपले )  
उप सचिव (रस्ते)

प्रत,

- १) मुख्य सचिव यांचे सहसचिव, मंत्रालय, मुंबई
- २) प्रधान सचिव, यांचे स्वीय सहायक, सार्वजनिक बांधकाम विभाग, मंत्रालय, मुंबई.
- ३) सचिव (रस्ते), यांचे स्वीय सहायक, सार्वजनिक बांधकाम विभाग, मंत्रालय, मुंबई.
- ४) सचिव (बांधकामे), यांचे स्वीय सहायक, सार्वजनिक बांधकाम विभाग, मंत्रालय, मुंबई.
- ५) सर्व मंत्रालयीन विभाग
- ६) मुख्य अभियंता, सार्वजनिक बांधकाम प्रादेशिक विभाग, मुंबई/कोकण/पुणे/ नाशिक/ औरंगाबाद/  
अमरावती/नागपूर

मुख्य अभियंता, सा.बां. प्रा.विभाग,नागपूर यांनी सादर केलेल्या राज्य दरसूचीच्या प्रस्तावात शासन स्तरावरून केलेल्या दुरुस्तीनुसार राज्य दरसूची अद्ययावत करून सा.बां. विभागाच्या संकेतस्थळावर प्रसिध्द करावी तसेच स्वाक्षांकित छापील प्रत (Hard Copy) विहित मुल्यासह मागणी केल्यास उपलब्ध करून द्यावी.

- ७) मुख्य अभियंता, राष्ट्रीय महामार्ग (सा.बां.) विभाग, कोकण भवन, नवी मुंबई.
- ८) सर्व अधीक्षक अभियंते, सार्वजनिक बांधकाम मंडळे.
- ९) अधीक्षक अभियंता, दक्षता व गुणनियंत्रण मंडळ, नवी मुंबई/पुणे/नाशिक/औरंगाबाद/अमरावती/नागपूर.
- १०) अधीक्षक अभियंता, दक्षता पथक, मुंबई
- ११) अधीक्षक अभियंता, संकल्पचित्र मंडळ (पुल व इमारती), कोकण भवन, नवी मुंबई.
- १२) सर्व कार्यकारी अभियंते, सार्वजनिक बांधकाम विभाग
- १३) सर्व तांत्रिक अधिकारी, सार्वजनिक बांधकाम विभाग, मंत्रालय, मुंबई.
- १४) निवडनस्ती (नि-३)

सार्वजनिक बांधकाम विभागाची  
सन २०१९-२० साठी राज्य दरसूची  
प्रसिध्द करण्याबाबत.

महाराष्ट्र शासन  
सार्वजनिक बांधकाम विभाग  
शासन शुध्दीपत्रक क्रमांक. रादसू-२०१८/प्र.क्र.२७/नियोजन-३  
मादाम कामा मार्ग, हुतात्मा राजगुरु चौक,  
मंत्रालय, मुंबई-४०० ०३२.  
दिनांक :-०१/०७/२०१९

वाचा :- शासन परिपत्रक, सार्वजनिक बांधकाम विभाग, क्रमांक रादसू २०१८/प्र.क्र.२७/ नियोजन-३,  
दि.२९.०६.२०१९.

शुध्दीपत्रक :-

संदर्भाधीन शासन परिपत्रकातील परिच्छेद क्र.३ मध्ये “दरसूचीच्या टिप्पणीत दिनांक ०१.०७.२०१९ रोजीचे सिमेंट/स्टील/डांबराचे (GST रहीत) तारांकीत दर (Star Rates) घेण्यात आले आहेत.” त्या ऐवजी “दरसूचीच्या टिप्पणीत सिमेंट व स्टीलचे दर दिनांक २१.०६.२०१९ रोजीचे व डांबराचे दर दिनांक १६/०६/२०१९ चे (GST रहीत) तारांकीत दर (Star Rates) म्हणून घेण्यात आले आहेत.” असे वाचावे.

सदर शासन शुध्दीपत्रक महाराष्ट्र शासनाच्या [www.maharashtra.gov.in](http://www.maharashtra.gov.in) या संकेत स्थळावर उपलब्ध करण्यात आला असून त्याचा सांकेतांक २०१९०७०११६२९०९९०१८ असा आहे. हे शुध्दीपत्रक डिजीटल स्वाक्षरीने साक्षांकित करुन काढण्यात येत आहे.

TOPALE SURENDRA  
LAXMAN

( सुरेंद्र टोपले )  
उप सचिव (रस्ते)

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प्रत,

- १) मुख्य सचिव यांचे सहसचिव, मंत्रालय, मुंबई
- २) प्रधान सचिव, यांचे स्वीय सहायक, सार्वजनिक बांधकाम विभाग, मंत्रालय, मुंबई.
- ३) सचिव (रस्ते), यांचे स्वीय सहायक, सार्वजनिक बांधकाम विभाग, मंत्रालय, मुंबई.
- ४) सचिव (बांधकामे), यांचे स्वीय सहायक, सार्वजनिक बांधकाम विभाग, मंत्रालय, मुंबई.
- ५) सर्व मंत्रालयीन विभाग
- ६) मुख्य अभियंता, सार्वजनिक बांधकाम प्रादेशिक विभाग, मुंबई/कोकण/पुणे/ नाशिक/ औरंगाबाद/  
अमरावती/नागपूर
- ७) मुख्य अभियंता, राष्ट्रीय महामार्ग (सा.बां.) विभाग, कोकण भवन, नवी मुंबई.

- ८) सर्व अधीक्षक अभियंते, सार्वजनिक बांधकाम मंडळे.
- ९) अधीक्षक अभियंता, दक्षता व गुणनियंत्रण मंडळ, नवी मुंबई/पुणे/नाशिक/औरंगाबाद/अमरावती/नागपूर.
- १०) अधीक्षक अभियंता, दक्षता पथक, मुंबई
- ११) अधीक्षक अभियंता, संकल्पचित्र मंडळ (पुल व इमारती), कोकण भवन, नवी मुंबई.
- १२) सर्व कार्यकारी अभियंते, सार्वजनिक बांधकाम विभाग
- १३) सर्व तांत्रिक अधिकारी, सार्वजनिक बांधकाम विभाग, मंत्रालय, मुंबई.
- १४) निवडनस्ती (नि-३)

## Preface

Govt. of Maharashtra, Public works Department is glad to publish new State Schedule of Rates for the year 2019-20 as approved vide शासन परिपत्रक क्रमांक रादसु-२०१८/प्र.क्र.२७/नियोजन-३, मुंबई दिनांक २९.०६.२०१९ व शासन शुध्दीपत्रक क्रमांक रादसु-२०१८/प्र.क्र.२७/नियोजन, मुंबई दिनांक ०१.०७.२०१९.

The S.S.R. shall be effective from 1 July 2019. In 2019-20 S.S.R. all the sections related to Road work, Bridge & CD work, Building work are included. In addition separate section for Green Building and additional 161 new items based on new innovative technology available in the market are also made available in 2019-20 SSR.

Please email your suggestion on [nagpur.ce@mahapwd.com](mailto:nagpur.ce@mahapwd.com)

For Road & Road Furniture :- [satara.se@mahapwd.com](mailto:satara.se@mahapwd.com)

For Buildings :- [amravati.se@mahapwd.com](mailto:amravati.se@mahapwd.com)

For Bridges & CD work - [ratnagiri.se@mahapwd.com](mailto:ratnagiri.se@mahapwd.com)  
[raigad.se@mahapwd.com](mailto:raigad.se@mahapwd.com)

For Green Building & Survey :- [pune.se@mahapwd.com](mailto:pune.se@mahapwd.com)

For new items :- [nashik.se@mahapwd.com](mailto:nashik.se@mahapwd.com)

**STATE SCHEDULE RATE FOR YEAR 2019-20**

**INDEX**

CHAPTER	CLASSIFICATION OF ITEMS	SR. NO.		ITEM NO.		PAGE NO.	
		From	To	From	To	From	To
1	<b>General Notes</b>					1	11
2	<b>Road Works</b>						
	Road Survey and DPR	1	77	1.01	1.77	12	25
	Road Sub Grade	78	112	2.01	2.39	26	30
	Road Sub Base and Base Course	113	159	3.01	3.50	31	41
	Road Surfacing Course	160	168	4.01	4.13	42	43
	Rigid Pavement	169	191	5.01	5.22	44	52
	Road Furniture	192	310	6.01	6.58	53	86
	Road Miscellaneous item	311	344	7.01	7.37	87	94
	Road Maintenance	345	379	8.01	8.35	95	102
3	<b>Cross Drainage Works</b>	380	406	11.01	11.31	103	106
4	<b>Bridge Works</b>						
	Bridge Sub Structures and Foundation	407	448	12.02	12.72	107	117
	Bridge Bearing	449	456	13.01	13.09	118	119
	Bridge Super Structure	457	518	14.01	14.92	120	133
	Bridge Bored Pile	519	580	15.02	15.146	134	156
	Bridge Maintenance	581	586	16.01	16.09	157	157
	Bored Pile, Well Foundation, Sub & Super Structure	587	659	17.01	17.73	158	184
	Arch Bridge	660	667	18.01	18.08	185	188
	New Items (Bridge Repair )	668	713	19.01		189	196
5	<b>Building Works</b>						
	Excavation	714	744	21.01	21.40	197	201
	Pile Foundation Building	745	805	22.01	22.61	202	222
	Structural Steel Work	806	816	23.01	23.12	223	225
	Plain Cement Concrete	817	825	24.01	24.16	226	229
	Reinforcement Cement Concrete	826	845	25.11	25.78	230	238
	Reinforcement Cement Concrete	846	878	26.05	26.68	239	253
	Brick Work	879	893	27.01	27.16	254	256
	Stone Masonary	894	906	28.01	28.13	257	258
	Concrete Block Masonary	907	915	29.01	29.13	259	260
	Expansion Joints	916	926	30.01	30.11	261	262
	Water Proofing	927	944	31.01	31.26	263	267
	Plastering and Pointing	945	977	32.01	32.37	268	272
	Paving, Flooring and Dado	978	1049	33.01	33.81	273	284
	Wood Finish	1050	1060	34.01	34.11	285	285



CHAPTER	CLASSIFICATION OF ITEMS	SR. NO.		ITEM NO.		PAGE NO.	
		From	To	From	To	From	To
	Oil Painting	1061	1086	35.01	35.29	286	289
	Colouring	1087	1104	36.02	36.21	290	292
	Wood Work	1105	1130	37.01	37.26	293	296
	Roofing and Ceiling	1131	1182	38.01	38.52	297	312
	Doors and Windows	1183	1278	39.01	39.96	313	337
	Iron Work	1279	1289	40.01	40.11	338	340
	Water Supply and Sanitary Fittings	1290	1359	41.01	41.80	341	350
	Water Supply and Sanitary Fittings	1360	1447	42.01	42.88	351	363
	Water Supply and Sanitary Fittings	1448	1489	43.01	43.42	364	372
	Building Miscellaneous Item	1490	1512	44.01	44.24	373	376
	Building Maintenance	1513	1569	46.01	46.59	377	383
	Structural Strengthening	1579	1585	47.01	47.16	384	390
<b>6</b>	<b>Green Building</b>						
	Masonry	1586	1588	48.01	48.03	391	392
	Flooring	1589	1595	48.04	48.10	393	396
	Colouring	1596	1602	48.11	48.17	397	399
	Roofing	1603	1604	48.18	48.19	399	399
	Doors & Windows	1605	1609	48.20	48.24	400	401
	Plumbing	1610	1630	48.25	48.45	402	404
	Rain Water Harvesting	1631	1639	48.46	48.54	405	406
	Others	1640	1646	48.55	48.61	407	409
<b>7</b>	<b>Coastal</b>	1647	1689	49.01	49.33	410	418
<b>8</b>	<b>Additional New Items 2018-19</b>	1690	1794	50.01	50.86	419	454
<b>9</b>	<b>Additional New Items 2019-20</b>	1795	1966	51.01	51.16	455	515
<b>10</b>	<b>Material Rates</b>					512	531
<b>11</b>	<b>Labour Rates</b>					532	533
<b>12</b>	<b>Machinery Rates</b>					534	536
<b>13</b>	<b>Transportation Charges</b>					537	547
<b>14</b>	<b>Consumption of Material</b>					548	568
<b>15</b>	<b>Testing Charges &amp; Frequency of Test</b>					569	592
<b>16</b>	<b>Crush Sand Circular</b>					593	602
<b>17</b>	<b>Approval to SSR 2018-19</b>					603	603

# 1 Important issues for State Schedule of Rates

## Section A - General Notes

- i) Schedule of Rates prepared for the year 2019-20 is operative from 01 July, 2019 and is applicable for all the Districts of Maharashtra. Schedule of Rates are worked out considering the rates of materials prevailing in all districts. If the basic rates of murum, sand, metal and bricks for a particular district deviates from the rates considered in the SSR, then the Superintending Engineer, PWD of that particular district may change rate/s for that particular item/s. While doing so concerned Superintending Engineer, PWD shall keep the reasons in writing on record.
- ii) For the rates in Corporation area, Municipal Council Areas, Notified Tribal area, Hilly inaccessible areas & Central Jail premises, Sugarcane factory area, Tiger Project areas, Coal / Manganese /Lime Mining area, Naxalite affected area and Mental Hospital premises, an increase of percentages over the normal schedule of rates (Basic completed item Rates) prescribed for the year 2019-20 are as follows:-

	Specific Areas	Percentage in Rates
a)	Corporation Areas	5%
b)	Municipal Council Areas	4%
c)	Sugarcane factory area (within 10 km. radius)	5%
d)	Notified Tribal Areas / Hilly Area / Inaccessible areas	10%
e)	Inside Premises of Central Jail, Mental Hospital, Raj Bhavan, Yerawada Printing press.	15%
f)	Tiger project area in Amaravati, Yavatmal, Wardha, Nagpur, Bhandara, Gondia & Chandrapur Distt.	20%
g)	Coal / Lime / Manganese Mining area	5%
h)	Naxalite affected area	20%

In addition to this, for items involving construction and repair of sewer lines/ storm water drains, concerned Superintending Engineer, PWD shall increase the rate accordingly

Issue rates of Schedule 'A' materials for above notified area shall be increased by respective percentage. The above percentage shall be applied on the cost of items after deducting the cost of Specified materials, if issued on Schedule 'A'.

The Superintending Engineers (PWD) shall Specify the Sugar factory areas/ Coal mine areas/ Notified Tribal areas under their circles.

**The Notified Hilly / Inaccessible areas shall be considered as per Government Resolution, Planning Department No. DVK-2009/CR-6/D-1483 Dated 18.01.2010 & 31.01.2018, No. DVK-2015/CR-42/D-1481A Dated 15.06.2018 & 20.11.2018 and DVK-2015/CR-35/D-1483 Dated 31.07.2015 and applicable GRs of Planning Department.**

The Superintending Engineer, PWD shall decide necessary increase in ii(a) above if required for traffic restriction hours and Labour rates for night working.

1) For all district excluding Gadchiroli, following instructions are applicable:-

The works which are pertaining to inside premises of central jail, Mental Hospital, Raj Bhavan, Yerawada Printing press as well as in Corporation area, an increase of percentage over normal scheduled rates shall be considered both simultaneously e. g. If central jail is situated in corporation area an increase of 5% for corporation area and 15% for jail premises total 20% shall be considered.

2) For Gadchiroli District Notified Tribal area, Hilly or inaccessible area, an increase shall be  $(10\%+20\%)=30\%$ .

iii) **Schedule of rates is based on the following basic rates of materials: -**

**The basic rates for materials Cement, Steel, Sand, Bricks may vary from district to district. While preparing the item rates for State Schedule of Rates, the basic rates from all Districts are considered at an average level.**

Sr. No.	Material	Basic rate for 2019-20(Excluding GST)
a)	Cement /PPC	Rs. 4,700/- Per M. T.
b)	PSC	Rs. 4,840/- Per M. T.
c)	GGBS (IS-16714)	Rs. 3990/- Per M. T.
d)	TMT-FE-500 reinforcement	Rs. 41,200/- Per M. T.
e)	HCRM/ CRS reinforcement	Rs. 44,000/- Per M. T.
f)	Structural Steel	Rs. 44,100/- Per M. T.
g)	Bitumen VG-30 (Packed)	Rs. 32,500/- Per M. T.Ex. Refinery Mumbai
h)	Bitumen VG-10 (Packed)	Rs. 31,700/- Per M. T. Ex. Refinery Mumbai
i)	Bitumen VG-40 (Bulk)	Rs. 30,180/- Per M. T. Ex. Refinery Mumbai
j)	Bitumen VG-30 (Bulk)	Rs. 29,200/- Per M. T. Ex. Refinery Mumbai
k)	Bitumen VG-10 (Bulk)	Rs. 28,400/- Per M. T. Ex. Refinery Mumbai
l)	Bitumen VG-40 (Packed)	Rs. 33,580/- Per M. T. Ex. Refinery Mumbai
m)	Bitumen Emulsion	Rs. 23,490/- Per M. T. Ex. Refinery Mumbai
n)	CRMB - 55	Rs. 30,555/- Per M. T.
p)	CRMB - 60	Rs. 30,735/- Per M. T.

The Rates of Bitumen given above are basic rates as on 16 June 2019. While preparing estimates, the rates prevailing at that time of Ex-Refinery Mumbai, shall be considered. The Rates of Steel given above are as per SAIL Dtd. 21.06.2019 & rates of Cement are of Dtd. 21.06.2019.

The Portland Pozzolana Cement (PPC) & Portland Slag Cement (PSC) shall be of reputed manufacturer only.

While preparing estimates if any specific grade of structural steel other than the SSR and grade of Bitumen other than SSR is required, then Superintending Engineer, PWD shall be competent to incorporate the same in the detailed estimate.

If the contractor procures Bitumen/Tar/Emulsion from any source other than Govt. refinery as permitted by Govt. vide Circular No. संकीर्ण-२०१८/प्र.क्र.३०/यं.बा.सा. दिनांक २७ मार्च २०१९, the Executive Engineer concerned, on requisite testing of such material shall work out the variation between the prevailing Govt. refinery rate and rate of private refinery produced by contractor on date of purchase of such material. If the variation is found negative, it shall be deducted from the amount payable to contractor against relevant items. If the variation is positive, the contractor shall not be paid for such positive variation and all the extra cost shall be borne by the contractor.

**iv) Taxes and Govt. Circulars.**

- a) Material Rates are exclusive of GST (Goods & Service Tax). Rates for completed items are also exclusive of GST. While preparing the estimates, separate provision for GST shall be made in recapitulation sheet.
- b) As per Govt. Circular No.SSR - 1090/CR-6453/PLN-3 Dt. 14.07.1993 and as per GR of Industries and power Department No. BCA-2009/CR-108/Labour 7-A dated 17.06.2010, Labour Cess at 1% has been considered separately in Rate Abstracts.
- c) For labour amenities and all other overhead charges, 10% provision is considered in Rate Abstract. In addition, 10% provision for Contractor's Profit is also considered separately.
- v) The Government of Maharashtra, Revenue and Forest Departments Gazette No. 67 Dt. 15 May 2015, States that the Royalty charges of Rs. 400/- Per Brass (i.e. Rs.141.34 /cum.) are to be considered. The surcharge levied on Royalty shall also be payable to the contractor. Royalty charges on all minor minerals do not form part of Rate Abstract and shall be reimbursed separately on production of proof to that effect. The Superintending Engineer, PWD may modify and circulate Royalty charges in case of any modification are made by Govt. of Maharashtra. Royalty charges against estimated quantity shall be included in Recapitulation sheet.
- vi) For crusher metal separate royalty charges shall not be considered as it is a finished product.
- vii) In water scarcity area (the locality declared as drought prone area by District Collector for specified period), the Superintending Engineer, PWD concerned shall suitably increase the rate for particular item considering the requirement of water for that item.

**viii) Leads and lifts**

- a) Rates For transportation of material by Truck from different leads have been worked out as per table given by National Building Organization. The cost per trip shown in statement 'C', also includes charges of running empty vehicle for return trip. For calculation of transportation charges rates tabulated in material master for following items are considered in the formula  
a ) Mazdoor    b) Diesel    c) Mobile Oil    d) Truck
- b) For calculation of pay load factor a truck of 10 M. T. capacity is considered.
- c) The rates worked out in the Rate Abstract include initial lead of 50 m. for all completed items. Actual lead charges are to be added for items while framing the estimate wherever applicable.
- d) Lead charges for various materials are given in statement C-1 and these are inclusive of loading and unloading charges. Hence loading and unloading charges shall not be considered separately.
- e) The Basic rates for all quarrying materials such as Rubble, boulders, aggregates, sand, murum, selected earth etc. are taken as rates at quarry with lead of 50 mtr. (Head load lead is not to be deducted from lead)

**ix) Hot-Mix Hot laid Bituminous Works:-**

- a) The rates of Bitumen VG-40, Bitumen VG-30, and Bitumen VG-10 grade bitumen are Separate. Hence specify the grade accordingly in items of work to be executed.
- b) References of PWD Standard Specifications, MORTH specifications are mentioned in bracket below the description of the items.

**x) The concrete works :-**

The rates of cement concrete item are based on Standard consumption. The mix design shall be carried out for Concrete Grade above M-20 grade. If the consumption as per approved mix design varies ( more or less 5% ) from standard consumption, accordingly the positive difference in the cost of cement shall not be paid to contractor.

**xi) Work in Severe / Adverse / Foul Condition :**

- a) For such work, the rate for excavation shall be increased by 25% over the scheduled rates of excavation.
- b) For other items required to be executed in foul condition up to Ground Level / Bed Level, the rate shall be increased by 5% over schedule rates of individual items of CSR. This increase is over and above under general note 2.
- c) The above hike in rates of (a) & (b) shall be subject to the express condition that the prior approval of Superintending Engineer, PWD is obtained. The foul condition shall be certified by the Executive Engineer.

**xii) General Guidelines :-**

- a) The contents of SSR Annexure are as follows :- Statement A-1 - Material Master. (Basic rates of materials) Statement A-2 - Labour Master.
- b) References of PWD Standard Specification/ MORT & H Specification are mentioned in schedule of rates.
- c) In case of sudden rush of works like Kumbhmela at Nasik, Guru-ta-Gaddi at Nanded, Asian games at Pune, the Department may face shortage of material and other resources. In such situation the concerned Superintending Engineer, PWD shall prepare the new Schedule of Rates or make necessary amendment/s in SSR with the prior permission of the respective Chief Engineer, PWD.
- d) For works in Gadchiroli, Ratnagiri, Sindhudurg districts specific District Schedule of Rates shall be prepared by respective SE.
- e) The testing facilities, for construction materials, which are not available in Government Laboratories/ Institutions, test results can be obtained from ISO Certified and NABL Accredited private quality control Laboratories / Govt. approved Engineering colleges, Polytechnic.
- f) Use of Geo textiles, for strengthening the soil is work of special techniques requiring precise use of materials and skilled supervision. Use of Geo textiles in soil stabilization may be included in estimate only after the prior permission of the Chief Engineer concerned.
- g) As far as possible, use of Cold mix items shall be discouraged. However, if found necessary, Rate Analysis for cold mix item with seal coat shall be approved by the Superintending Engineer, PWD of that particular Circle.
- h) Machinery hire charges rates are provided by Mechanical Wing of PWD.
- i) Superintending Engineer, PWD shall decide reduced task rates for Items required for diversion, wherever diversion is required.

## Section B - Instructions for preparing estimate

- i) As per revised circular issued by Dy. Directorate of Insurance Maharashtra State vide letter No. क्र. प्रविनी - 2314/ देयक कपात रक्कम/ संकीर्ण/ अभि-3, दिनांक 31/03/2015, Insurance towards labour is not considered in rate abstract of SSR items. Provision for the same shall be made in the recapitulation sheet as follows.

a)	Work value upto :- 25.00 Lakhs	1.00%
b)	Work value above :- 25.00 Lakhs	0.50%

- ii) For items of buildings having ground plus upper floors rate shall be increased as follows for the floor lift.

Sr.No.	Floor	For Every Floor Separate Item
		Rate to be increased by 1%
a)	Ground floor	Nil
b)	First floor	1%
c)	Second floor	2%
d)	Third floor	3%
e)	Fourth floor	4%

Above fourth floor the percentage increase in Rates floor wise shall be decided by concerned SE, PWD.

**Note : The lift height for floor to floor shall be considered as 3.8 Mtr.**

- iii) **Transportation Charges:-**

- a) The transportation charges beyond 30 km to 50 km are with 5 km interval, 50 km to 100 km with 10 km interval, 100 km to 200 km with 25 km interval. The transportation charges for intermediate km. within the range shall be worked out by linearly interpolating between rates of the lower and upper values in the range.
- b) Statement C2 is for loading, unloading and stacking charges. Loading and unloading charges are to be deducted from Transportation charges in Statement C1, wherever transportation charges without loading and unloading are required.
- c) Rate of transportation of bulk bitumen from refinery to the plant site is Rs. 8.00 / M.T./ km. Rate of heating and decanning bulk bitumen is Rs. 110.00 / M.T.
- iv) **The items for which rates are not included in state schedule of Rates, the rates shall be approved by concerned superintending Engineer, PWD.**
- v) The rates for items pertaining to Parks & Gardens shall be taken from the SSR of Parks & Gardens wing of PWD.
- vi) For items of excavation, foundation concrete and masonry etc. for C. D. works, rates shall be adopted from corresponding items under respective building sections.
- vii) Rates for items of excavation are worked out by considering the excavation using machineries. But where site is inaccessible for machinery then rates for manual excavation shall be taken with prior permission of the Superintending Engineer, concerned.
- viii) For scaffolding work required to be erected for carrying out repairing work on external faces of building at various heights (viz. Repairs to chajja, external plastering, painting etc.). The rate of respective item shall be increased by 1%, provided the work is carried out by erecting scaffolding. For specific cases rate analysis shall be got approved from concerned Superintending Engineer, PWD. If separate item for scaffolding is considered in estimate, then this increase shall not be applied.
- ix) All concrete items considered in SSR are inclusive of normal curing system.

- x) For building works costing more than Rs. 25.00 Crore, curing shall invariably be done by intelligent curing system. Separate Rate analysis approved by concerned Superintending Engineer, PWD shall be used for estimation purpose.
- xi) For repair works considering small quantity of work nominal mix shall be used for PCC / RCC items.
- xii) If higher Concrete grade, is required for any specific work, the rate analysis of the same shall be derived by adding difference in standard cement consumption in relevant SSR item's rate and shall be got approved from the Superintending Engineer, PWD of concerned circle.
- xiii) For deep foundation works, if found necessary, additional deep work charges, shall be got sanctioned from the Chief Engineer of concerned region.
- xiv) For preparation of estimates the detailed plans (Civil and Electrical) shall be finalized with consent of user department and then the detailed estimate is to be prepared and submitted for Administrative Approval.
- xv) In respect of new buildings and bridges, type of foundation should be fixed on the basis of detailed soil investigation report and no change in foundation shall be made without study of technical and financial implications. If such change is required out of technical necessity, the approval of the competent authority, which has given administrative approval, be taken first and then only changes should be executed.
- xvi) While preparing Estimate, if the item of dewatering is necessary in estimate, proper item must be included and verified by the Superintending Engineer of concerned District. The dewatering rates in Bridges/Building section includes post monsoon flow of river/Nallahs having general seepage of water only and does not include provision of cofferdam, caging etc. In specific condition, if cofferdam/caging/dewatering using mechanical pumps is felt necessary then appropriate dewatering item from SSR shall be taken or separate rate analysis shall be prepared and got approved from concerned Superintending Engineer, PWD.
- xvii) While preparing Estimate, actual and practical distance of worksite from quarries shall be taken and adequate quantity of good quality material shall be ascertained by concerned Executive Engineer. Extra care shall be taken in case of lead of murum and sand.
- xviii) Provision shall be made for taking Photographs, Video Shooting, load testing etc. separately in detail estimate and shall form part of Schedule B .
- xix) The use of Power Roller shall not be encouraged.
- xx) For building works for the excavation beyond 3.0 metre depth, following increase in basic rate of an item shall be made:-
  - a) 3.0 m to 4.50 m depth add 20 %
  - b) 4.5 m to 6.0 m depth add 30 %
  - c) Depth beyond 6.0 m extra percent to be decided by concerned Superintending Engineer.
- xxi) For minor works if use of scada is not possible as ascertained by field officers, rates shall be accordingly reduced by the concerned Superintending Engineer, PWD.
- xxii) For RCC / PQC items involving modified type of curing, the basic rate of such items shall be increased by 5% to consider cost of curing compound.
- xxiii) For built up drain, the basic rate of item shall be increased as mentioned for foul conditions ( i.e. Point No. (x) Page No. 4 of this general note)
- xxiv) The DPR and estimate must certify on quarry chart that
  - a) Quarries selected have sufficient quantity of required of specific quality needed.
  - b) That shortest lead has been considered while preparing the estimates.

- xxv) For murum & earth, lead from nearby farms / private lands shall not be taken. It should be taken from approved quarries only.
- xxvi) The rates of sand shall be average of the sand sale rates of last five years obtained from respective District Collector. Also the rates of items shall be in two parts i.e. 1) small works requiring sand upto 10Cum & 2) works requiring sand more than 10 Cum.



### **Section C - Testing of Materials**

- i) Laboratory testing charges are not considered in the Rate Abstracts. Wherever required separate item shall be taken in the estimate for material testing charges, on the basis of testing frequency and charges fixed by Vigilance & Quality Control Circle, for the current year and shall form part of Schedule B of tender.
- ii) For Specific tests like span load tests, plate/ pile load test etc. which are not included in the rate analysis of item, the rates for these tests shall be prepared on the basis of rates approved by M.E.R.I./ any competent Institute of Govt. of Maharashtra or Govt. of India.

## Section D - Instructions for tender Clause

- i) The contractor shall produce the **work insurance policy**, the same will be reimbursed to the contractor. If contractor fails to produce the work insurance policy, Concerned Executive Engineer shall **draw the policy**, the expenditure incurred for drawing the policy shall be recovered from the 1st R.A. bill of the contractor as penalty to the Contractor.
- ii) If completion period of work is Extended, then period of work Insurance must be renewed/ extended as per requirement.
- iii) **Mandatory Testing of Material and Penalty Clause**

It is mandatory on the part of contractor to carry out all the required tests of various construction materials as mentioned in schedule 'B' of the tender. If the contractor fails to submit required test result of the various construction materials as mentioned in the items of schedule 'B', he will be liable to deposit the amount at penal rate of five times of the amount of particular test which he has not carried out. Contractor will be informed by the Engineer-in-Charge through letter. On receipt of letter, contractor will have to either deposit the said amount or to carry out the required test within ten days. If he again fails to carry out the required tests in stipulated time limit, the said tests will be carried out by the department and total expenditure incurred on the testing charges plus five times amount of testing charges will be recovered from the contractor's bill.

As this recovery is only due to the negligence on the part of contractor to carry out work as per Tender conditions and Executive Engineer's decision will be final and binding on the contractor and it can not be challenged by the contractor by way of Appeal, Arbitration or in the Court of Law.

Considering above, relevant clause shall be included in DTP.

### **Tender Percentage for Royalty, Testing charges and Man power**

While preparing D.T.P, the Schedule "B"/BOQ amount shall be divided as(A) work Portion and (B), Royalty charges, Testing charges and Man power for Dept

For B-1 tender the Percentage shall be applied to work portion. (A) only.

For B-2 tender the Rate of item shall be applied to work portion. (A) only.

In above both case the part "B" of schedule B/BOQ will be intact.

Considering above, relevant clause shall be included in DTP.

## Section E - Additional notes for Coastal Items

- i) Coastal items are applicable for Mumbai City, Mumbai Suburban, Thane, Palghar, Raigad, Ratnagiri & Sindhudurg Districts.
- ii) This schedule of rates is applicable to all coastal protection works such as Anti Sea Erosion Bund, Groyne, Breakwater etc. to be constructed in the tidal condition along the sea coast & in the sea/creek area of all Coastal Districts.
- iii) For all completed items no initial lead is considered for material like sand, metal, stones etc. Lead charges for these materials shall be added while estimation.
- iv) Following increase over normal schedule of rates mentioned in this schedule are admissible on following accounts.
  - a) Defence Area [such as INS Hamla, Malad for security reasons] : 10%  
In Case more than one percentage increase on basic rates is admissible, instead of adding both the percentages, the higher percentage should be considered. (e.g. if any Defence area falls in the Municipal Corporation area then percentage addition will be only 10% and not with 10% + 5%). The above percentage increase should be applied on completed item rate.
- v) Items which comes under tidal condition 10% is to be added over completed item rate.
- vi) The head load is to be considered with prior permission of Coastal Engineer while preparing detailed rate analysis for inaccessible area where shifting of materials by head load is necessary. The State Schedule of Rates shall be adopted.
- vii) For the works in Elephanta, Arnala Fort, Panju island and such other islands and works such as light houses, guide poles to be constructed on the island or in the Sea/Creek, the actual boat charges for transportation of materials and labours shall be taken and detailed rate analysis for transportation of materials by boats shall be done and approved by Coastal Engineer. The boat charges shall be considered
  - a) Small boat (Single Cylinder @ Carrying Capacity = 1.50 MT) : Rs.5000/- per Day
  - b) Big boat (Double Cylinder @ Carrying Capacity = 5.00 MT) : Rs.10000/- per Day
- viii) The items included in this Section of schedule of rates are special items required for Harbour Engineering Works. For other items, State schedule of Rates should be adopted.

## Section F - Road Furniture

- i) IRC 67 2012 Table 6.2 Suggested Guidelines for Usage of Retro-Reflective Sheeting

Class of Sheeting	Type of Sheeting (ASTM)	Category of Road				
		National/State Highway	Major District Roads	Rural Roads	Urban/City Roads	Express way
Class A	Type I	No	Yes	Yes	No	No
	Type II	No	Yes	Yes	No	No
Class B	Type III	Yes	Yes	Yes	Yes	No
	Type IV	Yes	Yes	Yes	Yes	No
Class C	Type VIII	Yes	No	No	Yes	Yes
	Type IX	Yes	No	No	Yes	Yes
	Type XI	Yes	No	No	Yes	Yes

- ii) IRC 67 2012 Table 8.3 Colour Pattern for Direction Information Signs

Road Type	Background	Arrows/Border/Letters
Expressway	Blue	White
National Highway (NH)	Green	White
State Highway (SH)	Green	White
Major District Road (MDR)	Green	White
Village Road (VR)	White	Black
Urban/City Road	Blue	White

- iii) Warranty for Class B and Class C sheet of Cautionary / Mandatory / Informative Sign boards

**Class B** ( Type IV High intensity micro-prismatic grade sheeting-HIP) shall have **7 years written warranty** from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in Charge by the contractor/supplier.

**Class C** ( Type XI Micro prismatic grade sheeting) shall have **10 years written warranty** from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in Charge by the contractor/supplier.

The contractor shall produce the written warranty from the manufacturer and authorise distributor/convertor, else 20% of single item amount shall be deducted from his first R.A. Bill.

**SSR 2019-20 ROAD WORKS**

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1	Road Survey and DPR	1.01		<b>Fixing chainage Stone</b> /Bench mark Stone / Center Stone / Apex Stone <b>in earth</b> and all sorts of soil and soft murum including conveying excavated material, fixing stone, including paintaining lettering numbers and back filling etc. complete.	As directed by Engineer in charge	Number	138	132
2	Road Survey and DPR	1.02		Taking the trial pit for roads, alignment, C.D. Works <b>in earth soil</b> of all sorts, sands gravel or soft murum, including stacking the excavated material including all lifts and necessary back filling <b>upto depth 1.5 meters</b>	As directed by Engineer in charge	Cubic Metre	328	328
3	Road Survey and DPR	1.03		Taking the <b>trial pit</b> for roads, alignment, C.D. Works <b>in earth soil</b> of all sorts, sands gravel, or soft murum, including stacking the excavated material including all lifts and necessary back filling <b>upto depth 3.0 meters</b>	As directed by Engineer in charge	Cubic Metre	358	358
4	Road Survey and DPR	1.04		Taking the <b>trial pit</b> for roads, alignment, C.D. Works <b>in Hard murum</b> , including stacking the excavated material including all lifts and necessary back filling <b>upto depth 1.5 meters</b>	As directed by Engineer in charge	Cubic Metre	447	447
5	Road Survey and DPR	1.05		Taking the <b>trial pit</b> for roads, alignment, C.D. Works <b>in Hard murum</b> , including stacking the excavated material including all lifts and necessary back filling <b>upto depth 3.0 meters</b>	As directed by Engineer in charge	Cubic Metre	507	507
6	Road Survey and DPR	1.06		Taking the <b>trial pit</b> for roads, alignment, C.D. Works <b>in Hard murum</b> , and Boulders including stacking the excavated material including all lifts and necessary back filling <b>upto depth 1.5 meters</b>	As directed by Engineer in charge	Cubic Metre	567	567
7	Road Survey and DPR	1.07		Taking the <b>trial pit</b> for roads, alignment, C.D. Works <b>in Hard murum</b> , and Boulders including stacking the excavated material including all lifts and necessary back filling <b>upto depth 3.0 meters</b>	As directed by Engineer in charge	Cubic Metre	626	626
8	Road Survey and DPR	1.08		Fixing <b>survey pegs in earth</b> and all sorts Soil, Sand, Gravel, Soft Murum, etc. including conveying, fixing etc. complete.	As directed by Engineer in charge	Number	8	8
9	Road Survey and DPR	1.09		<b>Reconnaissance Survey</b> of Road alignment <b>in plain</b> country including taking three dimensions of apexes, verification of type of land etc. alongwith the alignment etc. complete <b>(Without Chaining)</b> .	As directed by Engineer in charge	Kilometre	1539	1415

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
10	Road Survey and DPR	1.10		<b>Reconnaissance Survey</b> of Road alignment in <b>plain</b> country including taking three dimensions of apexes, verification of type of land etc. alongwith the alignment etc. complete <b>(With Chaining)</b> .	As directed by Engineer in charge	Kilometre	4077	3504
11	Road Survey and DPR	1.11		<b>Reconnaissance Survey</b> of a road alignment for <b>new hilly road</b> utilising existing forest cart tracks with use of ghat tracer (if found necessary), taking three dimensions of apexes including verification of type of land etc. complete. <b>(Without Chaining)</b>	As directed by Engineer in charge	Kilometre	4341	3478
12	Road Survey and DPR	1.12		<b>Reconnaissance Survey</b> of road alignment for <b>new hilly road</b> utilising existing forest cart tracks with use of ghat tracer (if found necessary), taking three dimensions of apexes including verification of type of land etc. complete. <b>(With Chaining)</b>	As directed by Engineer in charge	Kilometre	5415	4647
13	Road Survey and DPR	1.13		<b>Reconnaissance Survey</b> of road alignment in <b>hilly road</b> utilising existing forest cart tracks with use of ghat tracer (if found necessary), taking three dimensions of apexes including verification of type of land etc. complete. <b>(Without Chaining)</b> .	As directed by Engineer in charge	Kilometre	2361	1713
14	Road Survey and DPR	1.14		<b>Reconnaissance Survey</b> of road alignment in <b>hilly road</b> utilising existing forest cart tracks with use of ghat tracer (if found necessary), taking three dimensions of apexes including verification of type of land etc. complete. <b>(With Chaining)</b> .	As directed by Engineer in charge	Kilometre	4537	3769
15	Road Survey and DPR	1.15		<b>Detailed survey</b> of road in <b>plain</b> country including chaining and levelling with cross sections at every two chains inclusive of closing of survey each day.	As directed by Engineer in charge	Kilometre	4816	2324
16	Road Survey and DPR	1.16		<b>Detailed survey</b> of road length where <b>earthwork is partly done</b> including chaining and levelling with cross sections at every two chains inclusive of closing survey each day.	As directed by Engineer in charge	Kilometre	4744	2324
17	Road Survey and DPR	1.17		<b>Detailed survey</b> of road through <b>hilly country</b> taking cross section at every chains or as required including chaining , levelling and closing survey each day.	As directed by Engineer in charge	Kilometre	7788	3956
18	Road Survey and DPR	1.18		<b>Detailed survey</b> of road through <b>hilly country</b> taking cross section at every chains as desired including chaining ,levelling and closing survey each day <b>utilising existing cart track.</b>	As directed by Engineer in charge	Kilometre	5571	3559

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
19	Road Survey and DPR	1.19		Providing and <b>Fixing Wooden survey pegs including White washing</b> etc. complete.	As directed by Engineer in charge	Number	28	15
20	Road Survey and DPR	1.2		Carrying out <b>catchment area traverse survey of minor stream</b> (not traceable in toposheet) below 100 acres	As directed by Engineer in charge	Kilometre	1868	722
21	Road Survey and DPR	1.21		<b>Cutting down branches of trees , bushes</b> etc. stacking the material neatly as directed (For Motarable Road)	As directed by Engineer in charge	Kilometre	5965	5965
22	Road Survey and DPR	1.22		Providing <b>detailed layout plan</b> of area in scale 1:500 including carrying out contour survey and detailed Engineering plane table Survey with the help of 24 Alidade. The dolomite area measurement of the plot and structures, trees, over head line and under ground service amenities within the area, with triangular method and giving details of the structures, such as total area, type of building and distance from all corners taking trial pit 0.5x0.5x2.00 m.-2Nos. per acre and collection of record from city survey / D.I.L.R. authorities and authentication. The plan shall be traced on 75 micron polyster film and shall be submitted along with three Amonia prints. The contour levels shall be marked at 0.5 Meter intervals. Note:- The items includes- 1)Traversing work with theodolite and steel tape. 2) Levelling Grid Work of the terrain. 3)Detailed Engineering Survey and contouring work of the terrain. 4)Plotting work. 5)Collection of Record. <b>a) up to 1 Acre</b>	MORTH	Acre	7275	5659

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
23	Road Survey and DPR	1.23		Providing <b>detailed layout plan</b> of area in scale 1:500 including carrying out contour survey and detailed Engineering plane table Survey with the help of 24' Alidade. The dolomite area measurement of the plot and structures, trees, over head line and under ground service amenities within the area, with triagular method and giving detailes of the structures, such as total area, type of building and distance from all corners taking trial pit 0.5x0.5x2.00 m.-2Nos. per acre and collection of record from city survey / D.I.L.R. authorities and authentication. The plan shall be traced on 75 micron polyster film and shall be submitted along with three Amonia prints. The contour levels shall be marked at 0.5 Meter intervals. Note:- The items includes- 1)Traversing work with theodolite and steel tape. 2) Levelling Grid Work of the terrain. 3)Detailed Engineering Survey and contouring work of the terrain. 4)Plotting work. 5)Collection of Record. <b>b) Above 1 Acre</b>	As directed by Engineer in charge	Acre	7215	5659
24	Road Survey and DPR	1.24		<b>Reconnaissance survey</b> including study of sheets, maps etc. for alignment including 3 dimension of apexes, fixing pegs, chain and compass or cross staff survey with L-Section and cross section of alignment at every 30 m or at every change of deviation whichever is less including fly levels at closing of day, fixing apex and B.M. stones of size 0.20*0.20*0.75 m in 1:2:4 C.C. at every 200 m and preparation of alignment plans and all type of compliance if required from department.	As directed by Engineer in charge	Kilometre	24310	11168
25	Road Survey and DPR	1.25		<b>Preparation of detailed Plans and Estimates of road</b> including typing in 5 copies, ammonia prints, with colouring of plans, proper filing, indexing and paging etc. complete and all types of compliance, if required from Department.	As directed by Engineer in charge	Kilometre	13397	11879
26	Road Survey and DPR	1.26		<b>Survey of C.D. works</b> including taking L-section of Road, catchment area plan by Traverse method and taking trial pits of size 1.00x1.00x1.50 m including preparation of detailed Plans and Estimates in 5 copies and all types of compliance if required from the Department.	As directed by Engineer in charge	Number	10298	7981



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
27	Road Survey and DPR	1.27		<b>Survey of Minor bridge</b> including taking L section of existing road and two defined cross sections ,one of U/s and one of D/s, one vergin cross section on alternate proposed cross sections and bed slope of stream upto sufficient long distance as required with chain and compass. Taking three trial pits of size 1.00x1.00x3.0 m and collecting samples of materials at site for ascertaining the silt factor, unit weight test, specific gravity from Govt. approved laboratories( testing charges to be borne by the agency) and preparation of detailed survey data, submission of the project duly typed and colouring of the ammonia prints, site plan and other drawings etc. complete if required from the Department.	As directed by Engineer in charge	Number	50093	26395
28	Road Survey and DPR	1.28		<b>Survey of major bridge</b> including taking L-section of existing road two defined cross -sections (one at U/S and one at D/s) and one vergin cross section on alternate proposed cross sections and bed slope of stream upto sufficient long distance as required with chain and compass.Taking 5 trial pits, three in bed, two on banks of size 2.00x2.00x3.00 m for collecting samples of materials at site for ascertaining the silt factor, unit weight test, specific gravity from Govt. approved laboratories (testing charges to be borne by the agency) and preparation of detailed survey data, submission of the project duly typed and colouring of ammonia prints, site plan and other drawings etc.complete. And all types of compliance if required from Department. (Excluding taking trial bores and contouring)	As directed by Engineer in charge	Running Metre	1556	887
29	Road Survey and DPR	1.29		<b>Contour Survey</b> of stream U/S and D/S of proposed bridge site including levelling at every 30 X 30 m preparing contour map with Autocad prints etc.complete in 5 sets.	As directed by Engineer in charge	Square Metre	89161	54685
30	Road Survey and DPR	1.3		<b>Survey of raised Causeway</b> including reconnaissance, taking L section of existing road one defined one vergin one alternate proposed cross section and stream upto sufficient lengths with chain and compass taking two trial pits of size 2.00x2.00x3.00 m. collecting samples at site ascertaining silt factor and preparation of detailed survey data,submission of the project duly typed colouring of the ammonia prints,site plan and other drawing etc.complete if required from Deparment.	As directed by Engineer in charge	Number	41384	17904

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
31	Road Survey and DPR	1.31		<b>Preparation of detailed plans and estimates of Raise Causeway</b> on the basis of the approved detailed survey data by competent authority including typing in 5 copies ammonia prints site plan other drawings with colouring of plans proper filling indexing and paging etc.complete and all types of compliance if required from Department.	As directed by Engineer in charge	Number	9607	8295
32	Road Survey and DPR	1.32		<b>Complete survey of stream</b> having catchment area <b>upto 1 sq. mile</b> including catchment survey taking necessary L.S./C.S. and other details etc. complete.	As directed by Engineer in charge	Number	7661	3172
33	Road Survey and DPR	1.33		<b>Complete survey of stream</b> having catchment area <b>above 1 sq. Mile and upto 5 sq. Miles</b> including taking necessary L.S./C.S. and other details etc. complete.	As directed by Engineer in charge	Number	13069	8665
34	Road Survey and DPR	1.34		<b>Reconnaissance survey of alignment in plain country for approaches to the bridge</b> including taking three dimensions of apexes. ( Without chaining )	As directed by Engineer in charge	Kilometre	1465	1365
35	Road Survey and DPR	1.35		<b>Fly levelling</b> for carrying out bench mark.	As directed by Engineer in charge	Kilometre	1288	774
36	Road Survey and DPR	1.36		<b>Detailed survey</b> of approaches including <b>Chain and Compass survey</b> along <b>bridge alignment and approaches</b> including closing each day work.	As directed by Engineer in charge	Kilometre	3563	2615
37	Road Survey and DPR	1.37		<b>Taking longitudinal section of streams</b> extending upstream and downstream side of the bridge site, requisite number of cross section of the stream on either sides block contouring and other details etc. complete. (Length of L.S. and C.S. for contouring to be worked out)	As directed by Engineer in charge	Kilometre	4358	3411
38	Road Survey and DPR	1.38		<b>Demarcation of right of way (ROW)</b> as per design using total station including calculation of co-ordinates of 30 Meter interval on both sides of road.	As directed by Engineer in charge	Kilometre	8290	4245
39	Road Survey and DPR	1.39		Preparation of <b>Land Acquisition proposal</b> including collection of 7/12 and 8/A documents marking alignment on village maps , area calculation, preparation of proposal, printing,binding, etc. complete and submission of 5 sets more ever liasoning and coordination with revenue authorities with compliance if any until finalisation of award including Joint measurement of the alignment. <b>For new alignment.</b>	As directed by Engineer in charge	Kilometre	22104	9369

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
40	Road Survey and DPR	1.40		Preparation of <b>Land Acquisition proposal</b> including collection of 7/12 and 8/A documents marking alignment on village maps , area calculation, preparation of proposal, printing,bindind, etc. complete and submission of 5 sets more ever liasoning and coordination with revenue authorities with compliance if any until finalisation of award including Joint measurement of the alignment. <b>For existing alignment.</b>	As directed by Engineer in charge	Kilometre	18036	7848
41	Road Survey and DPR	1.41		Carrying of <b>detailed topographic survey by using total station</b> along the existing or new road including taking L-section and cross section at every 30 meter ROW ,taking at least 10 spot levels per cross section, picking up all existing details inside the Row like electric telephone line , encroachments, structures etc. connecting all the primary total station control points by G.I.S.Bench marks level or whichever available with department using auto level and preparing Auto CAD plan by using above data taking out 1 set of black and white printout on 50 micron polyster film sheet A2 size and 2 sets of coloured printout on A2 size submitting soft copy all data on CD. <b>Plain Terrain New Alignment</b>	As directed by Engineer in charge	Kilometre	36465	15892
42	Road Survey and DPR	1.42		Carrying of <b>detailed topographic survey by using total station</b> along the existing or new road including taking L-section and cross section at every 30 meter ROW ,taking at least 10 spot levels per cross section, picking up all existing details inside the Row like electric telephone line , encroachments, structures etc. connecting all the primary total station control points by G.I.S.Bench marks level or whichever available with department using auto level and preparing Auto CAD plan by using above data taking out 1 set of black and white printout on 50 micron polyster film sheet A2 size and 2 sets of coloured printout on A2 size submitting soft copy all data on CD. <b>Plain Terrain Existing Alignment.</b>	As directed by Engineer in charge	Kilometre	34827	14255

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
43	Road Survey and DPR	1.43		Carrying of <b>detailed topographic survey by using total station</b> along the existing or new road including taking L-section and cross section at every 30 meter ROW ,taking at least 10 spot levels per cross section, picking up all existing details inside the Row like electric telephone line , encroachments, structures etc. connecting all the primary total station control points by G.I.S.Bench marks level or whichever available with department using auto level and preparing Auto CAD plan by using above data taking out 1 set of black and white printout on 50 micron polyster film sheet A2 size and 2 sets of coloured printout on A2 size submitting soft copy all data on CD. <b>Hilly Terrain New Alignment</b>	As directed by Engineer in charge	Kilometre	46842	22898
44	Road Survey and DPR	1.44		<b>Demarcation of Road boundry (ROW)</b> including fixing the boundry stones of standard size and shape including fixing in block of standard size of C.C. of 1:4:8 white washing at 30 M interval on both sides	As directed by Engineer in charge	Kilometre	40906	12070
45	Road Survey and DPR	1.45		<b>Taking trial bores 75 to 100 mm for 53.0 to 88.9 mm core dia over burden</b> ( by diamond drilling machine ) such as soil of all sorts, soft murum,hard murum and boulders and in soft rock including all materials such as casing pipes and accessories oil, grease, steel, rods, and such other materials as required (including conveying the material to site of work) . Preserving the loose sample in glass jar and core sample serially on site of work and conveying the same to HQ of concernring office as directed. <b>a) over burden 0 to 50 meter.</b>	As directed by Engineer in charge	Running Metre	1801	309

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
46	Road Survey and DPR	1.46		<b>Taking trial bores 75 to 100 mm for 53.0 to 88.9 mm core dia in rocks</b> as specified below including all necessary materials such as oil,grease,steel boostan and such other materials as required (including conveying the material to site of work) and Preserving the core sample serially on site of work and conveying the same to HQ of concernring office as directed. Quartzite with diamond drill <b>with Nx Bit</b> 0 to 50 metre	As directed by Engineer in charge	Running Metre	6528	369
47	Road Survey and DPR	1.47		<b>Taking trial bores 75 to 100 mm for 53.0 to 88.9 mm core dia in rocks</b> as specified below including all necessary materials such as oil,grease,steel boostan and such other materials as required (including conveying the material to site of work) and Preserving the core sample serially on site of work and conveying the same to HQ of concernring office as directed. Quartzite with diamond drill <b>with Ax Bit</b> 0 to 50 metre	As directed by Engineer in charge	Running Metre	3722	671
48	Road Survey and DPR	1.48		<b>Taking trial bores 75 to 100 mm for 53.0 to 88.9 mm core dia in rocks</b> as specified below including all necessary materials such as oil,grease,steel boostan and such other materials as required (including conveying the material to site of work) and Preserving the core sample serially on site of work and conveying the same to HQ of concernring office as directed. <b>Other Rock with diamond drill.</b> 0 to 50 metre	As directed by Engineer in charge	Running Metre	3534	339
49	Road Survey and DPR	1.49		Providing <b>tun tappa core boxes of jungle wood</b> of size1.25mx 0.35x 0.15m for preserving core sample with all fixtures and fastening handles including locking arrangement etc . complete.	As directed by Engineer in charge	Number	5119	1404
50	Road Survey and DPR	1.50		Providing and maintaining <b>temporary platform</b> of bore location in river bed in <b>upto 1M of standing water</b> and of size 3.50 x 4.00 M by using sand bags in layer for platform including all required materials labours etc. complete.	As directed by Engineer in charge	Number	12349	5424

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
51	Road Survey and DPR	1.51		Providing and maintaining <b>temporary platform for erecting</b> boring machined in river bed to the depth of standing water 1m to 2m and of size 3.50 x 4.00 M by using 20 Nos. of M.S. empty barrels in M.S. frame made of M.S. angle size 50 x 50 x 5 mm with fabrication and over it a jungle wood planks platform of size 3.50 x 4.00 x 0.03 M size including supplying of nylon rope 24 mm dia. for anchoring platform include passage platform and engaging a labour etc. complete. <b>1 m to 2 m</b>	As directed by Engineer in charge	Number	20392	5424
52	Road Survey and DPR	1.52		Providing and maintaining <b>temporary platform for erecting</b> boring machined in river bed to the depth of standing water 2 m and above and of size 3.50 x 4.00 M by using 20 Nos. of M.S. empty barrels in M.S. frame made of M.S. angle size 50 x 50 x 5 mm with fabrication and over it a jungle wood planks platform of size 3.50 x 4.00 x 0.03 M size including supplying of nylon rope 24 mm dia. for anchoring platform include passage platform and engaging a labour etc. complete. <b>2 m and Above.</b>	As directed by Engineer in charge	Number	20584	5424
53	Road Survey and DPR	1.53		Providing and maintaining <b>temporary platform for inspection</b> from one bank to another bank of bore location in river bed in all depth of standing water of size <b>1.30 x 2.00 M</b> by using 4 Nos. of M.S. empty barrels in M.S. frame made of M.S. angle size 50 x 50 x 5 mm with fabrication and over it a jungle wood planks platform of size 1.30 x 2.00 x 0.03 M size including supplying of nylon rope 24 mm dia. and 300 M length of movement of platform engaging a labour on inspection days etc. complete.	As directed by Engineer in charge	Number	16841	8407
54	Road Survey and DPR	1.54		<b>Conveying the boring machine and engine</b> and all its accessories etc. to the site of the work and back including loading unloading etc. complete. ( Note - Distance to be measured from the station of boring machine engine etc. of district head quarters to site of the work by short route ).	As directed by Engineer in charge	Kilometre	76	12
55	Road Survey and DPR	1.55		<b>Shifting boring plant</b> with all its components and reinstalling the same at the directed place including all its charges etc. complete.	As directed by Engineer in charge	Shift	6261	5862

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
56	Road Survey and DPR	1.56		Providing <b>detailed reports of the inspection logging of drilled hole</b> by observing visual description of data as per depth, thickness of layer, type of sample, wash sample, bore recovery type of drill etc. complete.	As directed by Engineer in charge	Number	9438	0
57	Road Survey and DPR	1.57		Providing <b>detailed geological reports</b> of proposed site by maintaining geotechnical investigation of structure stratification collecting soil, rock and ground water samples for laboratory tests to arrive the foundation design parameters . Rock properties such as type of rock, jointing fractures, etc. complete with suggestion about the site foundation and remedies.	As directed by Engineer in charge	Report	38478	0
58	Road Survey and DPR	1.58		<b>Preparing land plans and land schedule</b> including carrying out plane table survey for Private / Forest land on both side of road in Rural and Urban areas. The work of plotting and certificate from T.I.L.R. or other authorities shall be obtained from correctness of prepared plans. Tracing and taking out prints and preparing the requisite booklets duly bounds and printing with all materials etc. Three land plan booklets along with original tracing shall be supplied including procurement of village maps / forest land plans from concern authorities. Note : The item plane table includes following points 1 ) Carrying out plane table survey. 2) Plotting of duly surveyed area . 3) Collection of data from D.I.L.R. authorities and verification of survey maps by D.I.L.R. authorities . 4) Preparing three booklets of survey maps including taking out prints of survey maps, binding etc. 5) Carrying out plane table survey of the Private / Forest land along the road upto 30 meters on either side from the road centre.	As directed by Engineer in charge	Kilometre	35147	11755
59	Road Survey and DPR	1.59		<b>Geometrical design of road horizontal and vertical curves</b> for design speed specified by IRC including carrying out trail for optimising of civil cost minimising land acquisition and maximum use of existing facility and preparation of widening arrangement drawing for insisting structures stake out date for horizontal alignment and working levels including super elevation effect etc. complete.	As directed by Engineer in charge	Kilometre	11804	4182

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
60	Road Survey and DPR	1.60		<b>Transferring and taking out design on coordinates of baseline</b> on ground using nails for existing road surfaces and survey pegs for new alignments including taking out coordinates for horizontal curves at required interval of 50 meters etc. complete. ( Extra line such as right of way median edges to toe line not included).	As directed by Engineer in charge	Kilometre	11085	5373
61	Road Survey and DPR	1.61		<b>Preparation of roadway, drawing</b> (Plan And Profile ) on computer by using Autocad of required scale showing all topo feature and proposed construction details such as carriage way , median service road, toe line, retaining walls, cross drainage works, major structures, etc. complete. Including indexing, level tables, legend, basic information of project and design details etc.	As directed by Engineer in charge	Kilometre	7043	5464
62	Road Survey and DPR	1.62		<b>Preparation of Engineering drawing</b> as strip plan, widening scheme, index / key map, typical cross section, retaining walls, road furniture, general arrangement drawings for bus bays / truck lay-bays / rest areas / toll plaza / booths / and type drawing of pipe/ slab drains etc. on computer using Auto CAD.	As directed by Engineer in charge	Kilometre	7861	6282
63	Road Survey and DPR	1.63		<b>Survey of C.D. works</b> including taking L-Section of road, catchment area plan by Traverse method and taking trial pits of size 1.50M x 1.50M x 1.50M including preparation of detailed plans and estimates in 5 copies and all types of compliance if required from the department.	As directed by Engineer in charge	Number	6765	4332
64	Road Survey and DPR	1.64		<b>Design of junctions</b> including detail layout of traffic signs, informatory boards traffic islands. Breaks in median verge including working levels at junctions as per IRC standards etc. complete. <b>a) Major Junction</b>	As directed by Engineer in charge	Number	25173	16078
65	Road Survey and DPR	1.65		<b>Design of junctions</b> including detail layout of traffic signs, informatory boards traffic islands. Breaks in median verge including working levels at junctions as per IRC standards etc. complete. <b>b) Minor Junction</b>	As directed by Engineer in charge	Number	14508	8039



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
66	Road Survey and DPR	1.66		<b>Preparaion of initial design of flyovers</b> with preparing General Arrangement drawing with dimensions etc. complete and preparation of rough estimate for all components of bridge. Including supplying four copies of coloured drawings and copy of drawing on C.D. (excluding geotechnical and structural design part.)	As directed by Engineer in charge	Running Metre	726	117
67	Road Survey and DPR	1.67		<b>Preparation of draft / Final Report</b> comprising of technical, financial economic feasibility and environmental aspects of the project including executive summary and detailed chapters on necessity and introduction of project existing and future traffic, design philosophy scope of work, summary of available cost estimates justification for rates adopted, key points of execution, salient features of the project, location of toll plaza, toll rate / policy to be adopted and specification of major construction items etc. in 8 copies having attractive cover and binding s directed by engineer in charge etc. complete.	As directed by Engineer in charge	Number	241994	173387
68	Road Survey and DPR	1.68		<b>Preparation of Autocad drawing</b> with colour print for Building / Bridge / Road/ CD Works in required size etc. complete. - <b>A-0 Size</b>	As directed by Engineer in charge	Number	3713	3350
69	Road Survey and DPR	1.69		<b>Preparation of Autocad drawing</b> with colour print for Building / Bridge / Road/ CD Works in required size etc. complete. <b>A-1 Size</b>	As directed by Engineer in charge	Number	3277	2954
70	Road Survey and DPR	1.70		<b>Preparation of Autocad drawing</b> with colour print for Building / Bridge / Road/ CD Works in required size etc. complete. <b>A-2 Size</b>	As directed by Engineer in charge	Number	2445	2284
71	Road Survey and DPR	1.71		<b>Autocad drawing</b> with colour print out for Building / Bridge / Road/ CD Works in required size etc. complete. <b>A-0 Size</b>	As directed by Engineer in charge	Number	145	0
72	Road Survey and DPR	1.72		<b>Autocad drawing</b> with colour print out for Building / Bridge / Road/ CD Works in required size etc. complete. <b>A-1 Size</b>	As directed by Engineer in charge	Number	97	0
73	Road Survey and DPR	1.73		<b>Autocad drawing</b> with colour print out for Building / Bridge / Road/ CD Works in required size etc. complete. <b>A-2 Size</b>	As directed by Engineer in charge	Number	48	0
74	Road Survey and DPR	1.74		<b>Autocad drawing</b> with colour print out for Building / Bridge / Road/ CD Works in required size etc. complete. <b>A-3 Size</b>	As directed by Engineer in charge	Number	18	0

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
75	Road Survey and DPR	1.75		<b>Autocad drawing</b> with colour print out for Building / Bridge / Road/ CD Works in required size etc. complete. <b>A-4 Size</b>	As directed by Engineer in charge	Number	12	0
76	Road Survey and DPR	1.76		<b>Deploying Automated Traffic Count</b> and classification system on Road <b>(Two Lane)</b> in both direction at designated traffic count post by using High Definition Cameras..Collecting the Non Editable Data In DVR System with necessary electronic and electrical arrangements or inventor of required capacity Classification of data as per vehicle category as required with the help of software and submitting the the reports to the concerned department in hard copies as well as in soft copy, including using necessary technical manpower etc. complete. <b>A) Up to 7 Days (Two Lane)</b>	As directed by Engineer in charge	Day	30373	11664
77	Road Survey and DPR	1.77		<b>Deploying Automated Traffic Count</b> and classification system on Road <b>(One Lane)</b> in both direction at designated traffic count post by using High Definition Cameras..Collecting the Non Editable Data In DVR System with necessary electronic and electrical arrangements or inventor of required capacity Classification of data as per vehicle category as required with the help of software and submitting the the reports to the concerned department in hard copies as well as in soft copy, including using necessary technical manpower etc. complete. <b>B) Extra charges for every additional lane (If required)</b>	As directed by Engineer in charge	Day	22560	9708

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
78	Road Sub grade	2.01	MORTH 201	<b>Cutting down trees</b> including trunks and branches with girths <b>above 30cm to 60cm</b> and stacking the materials neatly with all lifts and lead of 1000m as directed and earth filling in the depression / pit if any.	MORTH 201	Number	411	371
79	Road Sub grade	2.02	MORTH 201	<b>Cutting down trees</b> including trunks and branches with girths <b>above 60cm to 90cm</b> and stacking the materials neatly with all lifts and lead of 1000m. as directed and earth filling in the depression/pit if any.	MORTH 201	Number	683	563
80	Road Sub grade	2.03	MORTH 201	<b>Cutting down trees</b> including trunks and branches with girths <b>above 90cm to 180cm</b> and stacking the materials neatly with all lifts and lead of 1000m. as directed and earth filling in the depression/pit if any.	MORTH 201	Number	1405	1245
81	Road Sub grade	2.04	MORTH 201	<b>Cutting down trees</b> including trunks and branches with girths <b>above 180cm to 270cm</b> and stacking the materials neatly with all lifts and lead of 1000m. as directed and earth filling in the depression/pit if any.	MORTH 201	Number	2406	2166
82	Road Sub grade	2.05	MORTH 201	<b>Cutting down trees</b> including trunks and branches with girths <b>above 270cm to 450cm</b> and stacking the materials neatly with all lifts and lead of 1000m. as directed and earth filling in the depression/pit if any.	MORTH 201	Number	2485	2335
83	Road Sub grade	2.06	MORTH 201	<b>Cutting down trees</b> including trunks and branches with girths <b>above 450cm</b> and stacking the materials neatly with all lifts and lead of 1000m. as directed and earth filling in the depression/pit if any.	MORTH 201	Number	2720	2556
84	Road Sub grade	2.07	MORTH 201	<b>Clearing grass</b> and removal of rubbish up to a distance of <b>50 metres</b> outside the periphery of the area .	MORTH 201	Square Metre	3	3
85	Road Sub grade	2.09	MORTH 201	<b>Clearing and grubbing road land</b> including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned up to a <b>lead of 1000 metres</b> including removal and disposal of top organic soil not exceeding 150 mm in thickness.	MORTH 201	Square Metre	9	9

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
86	Road Sub grade	2.10	MORTH 301	<b>Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum</b> including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed. By Manual Means. <b>(with prior permission of S.E.)</b>		Cubic Metre	241	241
87	Road Sub grade	2.11	MORTH 301	<b>Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum</b> including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a <b>lead of 50m.</b> and spreading for embankment or stacking as directed.	MORTH 301	Cubic Metre	73	6
88	Road Sub grade	2.13	MORTH 301	<b>Excavation for roadway in hard murum and boulder</b> including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a <b>lead of 50m.</b> and spreading for embankment or stacking as directed.	MORTH 301	Cubic Metre	84	6
89	Road Sub grade	2.14	MORTH 301	<b>Excavation for roadway in soft rock</b> , including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a <b>lead of 50m.</b> and spreading or stacking as directed.	MORTH 301	Cubic Metre	120	18
90	Road Sub grade	2.15	MORTH 301	<b>Excavation for roadway in hard rock by controlled blasting</b> including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a <b>lead of 50m.</b> and spreading for embankment or stocking as directed.	MORTH 301	Cubic Metre	167	20
91	Road Sub grade	2.16	MORTH 301	<b>Excavation for roadway in hard rock by wedging and chiselling or line drilling</b> including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a <b>lead of 50m.</b> and spreading for embankment or stacking as directed.	MORTH 301	Cubic Metre	1047	321
92	Road Sub grade	2.18	MORTH 309	<b>Excavation for catch / side water gutter in all sorts of soils</b> to the specified section including stacking the excavated stuff in a regular bund and disposing of unsuitable or excess stuff as directed all sorts of soils.	MORTH 309	Cubic Metre	73	5
93	Road Sub grade	2.20	MORTH 309	<b>Excavation for catch / side water gutter in Hard murum and boulder strata</b> to the specified section including stacking the excavated stuff in a regular bund and disposing of unsuitable or excess stuff as directed.	MORTH 309	Cubic Metre	84	5

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
94	Road Sub grade	2.21	MORTH 309	<b>Excavation for catch / side water gutter in Soft rock strata</b> to the specified section including stacking the excavated stuff in a regular bund and disposing of unsuitable or excess stuff as directed.	MORTH 309	Cubic Metre	141	18
95	Road Sub grade	2.22	MORTH 309	<b>Excavation for catch / side water gutters in Hard rock strata</b> to the specified section including stacking the excavated stuff in a regular bund by chiselling and wedging and disposing of unsuitable or excess stuff as directed.	MORTH 309	Cubic Metre	1047	321
96	Road Sub grade	2.23	MORTH 305	<b>Watering and compacting of embankment</b> formed of materials obtained from the road cutting within a lead of 50 m, not less than 97 % of standard Proctor density after laying them in layers of 20 cm. to 30 cm. <b>with vibratory roller.</b>	MORTH 305	Cubic Metre	71	3
97	Road Sub grade	2.24	MORTH 305	<b>Watering and compacting of embankment</b> formed of materials obtained from the road cutting within a lead of 50 m, not less than 97% of standard Proctor density after laying them in layers of 20 cm. to 30 cm. <b>with Power roller.</b>	MORTH 305	Cubic Metre	57	3
98	Road Sub grade	2.25	MORTH 305	<b>Conveying materials obtained from road cutting</b> including all lifts, laying in layers of 20cm to 30cm. breaking clods, dressing to the required lines, curves, grades and section, watering and compacting to not less than 97% of standard Proctor density for a <b>lead of over 50m. to 300m.</b> inclusive from the site of excavation to the site of deposition as directed.	MORTH 305	Cubic Metre	139	72
99	Road Sub grade	2.26	MORTH 305	<b>Conveying materials obtained from road cutting</b> including all lifts, laying in layers of 20cm. to 30cm. breaking clods, dressing to the required lines, curves, grades and section, watering and compacting to not less than 97% of standard proctor density for a <b>lead of 300m. to 500m.</b> inclusive, from the site of excavation to the site of deposition as directed.	MORTH 305	Cubic Metre	285	167
100	Road Sub grade	2.27	MORTH 305	Providing <b>earth work in embankment</b> with approved materials <b>obtained from departmental land</b> upto lead of 50m. including all lifts, laying in layers of 20cm. to 30cm. thickness breaking clods, dressing to the required lines, curves, grades & section, watering and compaction <b>with vibratory roller</b> to achieve not less than 97 % of standard proctor density etc. complete. <b>(Material obtained from departmental Land)</b>	MORTH 305	Cubic Metre	155	6

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
101	Road Sub grade	2.28	MORTH 305	Providing <b>earth work in embankment</b> with approved materials <b>obtained from other sources</b> upto lead of 50m. including all lifts, laying in layers of 20cm. to 30cm. thickness breaking clods, dressing to the required lines, curves, grades & section, watering and compaction with <b>vibratory roller</b> with V-Sat attachment to achieve not less than 97 % of standard proctor density etc. complete ( <b>Material obtained from Other sources</b> )	MORTH 305	Cubic Metre	424	6
102	Road Sub grade	2.29a	MORTH 408	<b>Supplying hard murum/ kankar</b> at the road site, including conveying and stacking complete.	MORTH 408	Cubic Metre	327	43
103	Road Sub grade	2.29b	MORTH 408	<b>Supplying soft murum</b> at the road site, including conveying and stacking complete.	MORTH 408	Cubic Metre	297	43
104	Road Sub grade	2.30	MORTH 408	<b>Spreading hard murum/ soft murrum/ gravel or kankar</b> for side width complete	MORTH 408	Cubic Metre	63	63
105	Road Sub grade	2.31	MORTH 408	<b>Compacting the hard murum</b> side widths including laying in layers on each side with <b>vibratory roller</b> including artificial watering etc. complete.	MORTH 408	Square Metre	16	3
106	Road Sub grade	2.32		<b>Picking the road surface</b> including sectioning etc. complete ( <b>WBM surface.</b> )	As directed by Engineer in charge	Square Metre	20	10
107	Road Sub grade	2.33		<b>Picking the road surface</b> including sectioning etc. complete ( <b>BT surface.</b> )	As directed by Engineer in charge	Square Metre	28	10
108	Road Sub grade	2.34		<b>Providing dry rubble stone</b> pitching 23 cm (about 9 ) thick including all material, quarry spalls, labour etc. complete.	As directed by Engineer in charge	Square Metre	317	92
109	Road Sub grade	2.35	MORTH 402	<b>Providing, laying and spreading soil</b> on a prepared sub grade, pulverizing, mixing the spread soil in place with rotavator with 3 per cent slaked lime with minimum content of 70 per cent of CaO, grading with motor grader and compacting with the road roller at <b>OMC to achieve atleast 98 per cent of the max dry density</b> to form a layer of sub base.	MORTH 402	Cubic Metre	510	25
110	Road Sub grade	2.36	MORTH 402	<b>Providing, laying and spreading soil</b> on a prepared sub grade, pulverizing, adding the designed quantity of cement to the spread soil, mixing in place with rotavator, grading with the motor grader and compacting with the road roller at <b>OMC to achieve the desired unconfined compressive strength</b> and to form a layer of sub-base/base.	MORTH 402	Cubic Metre	623	25

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
111	Road Sub grade	2.37	MORTH 402	<b>Laying and spreading available soil</b> in the sub-grade on a prepared surface, pulverizing, mixing the spread soil in place with rotavator with 3 per cent slaked lime having minimum content of 70 per cent of CaO, grading with motor grader and compacting with the road roller at <b>OMC to the desired density</b> to form a layer of improved sub grade.	MORTH 402	Cubic Metre	474	19
112	Road Sub grade	2.39	MORTH 403	<b>Construction of embankment with Flyash</b> conforming to table 1 of IRC: SP: 58 - 2001 obtained from coal or lignite burning thermal power stations as waste material, spread and compacted in layer of <b>200mm thickness</b> each at OMC, all as specified in IRC: SP: 58-2001 and as per approved plans.	MORTH 403	Cubic Metre	107	7

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
113	Road Sub Base and Base Course	3.01	MORTH 401	<b>Construction of granular sub-base</b> by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader/ Paver on prepared surface and compacting <b>with vibratory roller</b> to achieve the desired density, complete as per clause 401 -- <b>Plant Mix Method and Grading - I Material</b>	MORTH 401	Cubic Metre	1569	29
114	Road Sub Base and Base Course	3.02	MORTH 401	<b>Construction of granular sub-base</b> by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader / Paver on prepared surface and compacting <b>with vibratory roller</b> to achieve the desired density, complete as per clause 401 -- <b>Plant Mix Method and Grading - II Material</b>	MORTH 401	Cubic Metre	1569	29
115	Road Sub Base and Base Course	3.03	MORTH 401	<b>Construction of granular sub-base</b> by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader / Paver on prepared surface and compacting <b>with vibratory roller</b> to achieve the desired density, complete as per clause 401-- <b>Plant Mix Method and Grading - III Material</b>	MORTH 401	Cubic Metre	1569	29
116	Road Sub Base and Base Course	3.04	MORTH 401	<b>Construction of granular sub-base</b> by providing close graded material, spreading in uniform layers with motor grader / Paver on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting <b>with vibratory roller</b> to achieve the desired density, complete as per clause 401 -- <b>By Mix in Place Method and Grading - I Material</b>	MORTH 401	Cubic Metre	1381	26
117	Road Sub Base and Base Course	3.05	MORTH 401	<b>Construction of granular sub-base</b> by providing close graded material, spreading in uniform layers with motor grader / Paver on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting <b>with vibratory roller</b> to achieve the desired density, complete as per clause 401 -- <b>By Mix in Place Method and Grading - II Material</b>	MORTH 401	Cubic Metre	1381	26



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
118	Road Sub Base and Base Course	3.06	MORTH 401	<b>Construction of granular sub-base</b> by providing close graded material, spreading in uniform layers with motor grader/ Paver on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting <b>with vibratory roller</b> to achieve the desired density, complete as per clause 401 -- <b>By Mix in Place Method and Grading - III Material</b>	MORTH 401	Cubic Metre	1381	26
119	Road Sub Base and Base Course	3.07	MORTH 403	<b>Lime, Fly ash Stabilized Soil Sub-Base</b> -- Construction of <b>Sub-base using lime - Fly ash admixture with granular soil</b> , free from organic matter/ deleterious material or clayey silts and low plasticity clays having PI between 5 and 20 and liquid limit less than 25 and commercial dry lime, slaked at site or pre-slaked with CaO content not less than 50 per cent, Fly ash to conform to gradation as per clause 4.3 of IRC: 88-1984, lime + Fly ash content ranging between 10 to 30 per cent, the minimum un-confined compressive strength and CBR value after 28 days curing and 4 days soaking to be 7.5kg/sq, cm and 25 per cent respectively, all as specified in IRC: 88-1984.	MORTH 403	Cubic Metre	1018	9
	Road Sub Base and Base Course	3.08	MORTH 404	<b>Cement Treated Crushed Rock</b> or combination as per clause 403.2 and table 400.4 in Sub base/ Base --Providing, laying and spreading Material on a prepared sub grade, adding the designed quantity of cement to the spread Material, mixing in place with rotavator, grading with the motor grader and compacting with the road roller at <b>OMC to achieve the desired unconfined compressive strength</b> and to form a layer of sub-base/base course.				
120	Road Sub Base and Base Course	a	MORTH 404	A) For Sub-base Course	MORTH 404	Cubic Metre	1877	25
121	Road Sub Base and Base Course	b	MORTH 404	B) For Base Course	MORTH 404	Cubic Metre	1802	25
122	Road Sub Base and Base Course	3.09	MORTH 305.4.3	<b>Scarifying the existing granular road surface</b> to a depth of 50 mm and disposal of scarified material within all lifts and leads upto 1000 metres.	MORTH 501.8.2.1	Square Metre	38	31
123	Road Sub Base and Base Course	3.10	MORTH 202	<b>Dismantling of flexible pavements</b> and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately etc. complete.	MORTH 202	Cubic Metre	350	185

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
124	Road Sub Base and Base Course	3.11	MORTH 202	<b>Dismantling of cement concrete pavement by mechanical means</b> using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately etc. complete.	MORTH 202	Cubic Metre	1025	139
125	Road Sub Base and Base Course	3.12	MORTH 404.3.1	<b>Making 50 mm x 25 mm furrows</b> , 45 degree to the center line of the road and at one metre interval in the existing thin bituminous wearing coarse including sweeping and disposal of excavated material within 1000 metres lead	MORTH 404.3.1	Square Metre	7	6
126	Road Sub Base and Base Course	3.13	MORTH 404.3.1	<b>Making 50 mm x 50 mm furrows</b> , 45 degree to the center line of the road and at one metre interval in the existing thin bituminous wearing coarse including sweeping and disposal of excavated material within 1000 metres lead	MORTH 404.3.1	Square Metre	13	12
127	Road Sub Base and Base Course	3.14		<b>Brooming the W.B.M. surface</b> by wire Brushes, coir brushers, dusting, cleaning etc. for receiving the bituminous treatment complete. Brooming the water Bound Macadam surface by wire.		Square Metre	14	14
128	Road Sub Base and Base Course	3.18	MORTH 404	<b>Providing, laying, spreading and compacting</b> stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting <b>with Vibratory roller</b> . to the required density. By Mechanical Means - <b>Grading I</b> (Using Screening Type A (13.2) mm Aggregate)	MORTH 404	Cubic Metre	1500	30
129	Road Sub Base and Base Course	3.19	MORTH 404	<b>Providing, laying, spreading and compacting</b> stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting <b>with vibratory roller</b> to the required density. By Mechanical Means - <b>Grading I</b> (Using Screening Type B (11.2 mm) Aggregate)	MORTH 404	Cubic Metre	1475	30

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
130	Road Sub Base and Base Course	3.20	MORTH 404	<b>Providing, laying, spreading and compacting stone</b> aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting <b>with vibratory roller</b> to the required density. By Mechanical Means - <b>Grading II</b> (Using Screening Type B (11.2 mm) Aggregate)	MORTH 404	Cubic Metre	1650	30
131	Road Sub Base and Base Course	3.21	MORTH 405	<b>Crushed Cement Concrete Sub-base / Base</b> - Breaking and crushing of material obtained by breaking damaged cement concrete slabs to size range not exceeding 75 mm as specified in table 400.7 transporting the aggregates obtained from breaking of cement concrete slabs at a lead of 1 km., laying and compacting the same as sub base/ base course, constructed as WBM to clause 404 except the use of screening or binding material.	MORTH 405	Cubic Metre	324	180
132	Road Sub Base and Base Course	3.22	MORTH 405.2	<b>Penetration Coat Over Top Layer of Crushed Cement Concrete Base</b> -- Spraying of bitumen over cleaned dry surface of crushed cement concrete base at the rate of 25 kg per 10 sqm by a bitumen pressure distributor, spreading of key aggregates at the rate of 0.13 cum per 10 sqm by a mechanical gritter and rolling the surface as per clause 506.3.8	MORTH 405.2	Square Metre	19	2
133	Road Sub Base and Base Course	3.23	MORTH 406	<b>Wet Mix Macadam</b> -- Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting <b>with vibratory roller</b> to achieve the desired density. Laying By Grader/Paver.	MORTH 406	Cubic Metre	1624	33
134	Road Sub Base and Base Course	3.24	MORTH 410	<b>Crusher Run Macadam Base</b> -- Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a <b>vibratory roller</b> to clause 410 to form a layer of sub-base/Base -- By Mix in Place Method for 53 mm maximum size	MORTH 410	Cubic Metre	1410	21

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
135	Road Sub Base and Base Course	3.25	MORTH 410	<b>Crusher Run Macadam Base</b> -- Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a <b>vibratory roller</b> to clause 410 to form a layer of sub-base/Base -- By Mix in Place Method for 45 mm maximum size	MORTH 410	Cubic Metre	1410	21
136	Road Sub Base and Base Course	3.26	MORTH 410	<b>Crusher Run Macadam Base</b> -- Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a <b>vibratory roller</b> to clause 410 to form a layer of sub-base/Base -- By Mixing Plant Method for 53 mm maximum size	MORTH 410	Cubic Metre	1619	19
137	Road Sub Base and Base Course	3.27	MORTH 410	<b>Crusher Run Macadam Base</b> -- Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a <b>vibratory roller</b> to clause 410 to form a layer of sub-base/Base -- By Mixing Plant Method for 45 mm maximum size	MORTH 410	Cubic Metre	1619	19
138	Road Sub Base and Base Course	3.28	MORTH 202	<b>Dismantling of existing B.T. Surface</b> (flexible Pavement) to a depth of 50 mm. manually including loading of dismantled material to transport vehicle at site excluding lead charges	MORTH 202	Square Metre	23	19
139	Road Sub Base and Base Course	3.29	MORTH 502	<b>Prime coat</b> - Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including cleaning of road surface and spraying, primer at the rate of 0.60 kg/sqm using mechanical means.	MORTH 502	Square Metre	20	1
140	Road Sub Base and Base Course	3.30	MORTH 503	<b>Providing and applying tack coat</b> on the prepared surface heating by fumes in Boiler and spraying bitumen set footed in bitumen boiler on <b>B.T. surface 2.5 kg/10 sqm.</b> (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 503	Square Metre	11	1
141	Road Sub Base and Base Course	3.31	MORTH 503	<b>Providing and applying tack coat</b> on the prepared surface heating by fumes in Boiler and spraying bitumen with sprayer on Dry / Hungry <b>B.T. surface 3 kg/10 sqm.</b> (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 503	Square Metre	13	1

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
142	Road Sub Base and Base Course	3.32	MORTH 503	<b>Providing and applying tack coat</b> on the prepared surface heating by flames in Boiler and spraying bitumen with sprayer on Granular surface treated with <b>primer @ 2.75 kg/10 sqm</b> (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 503	Square Metre	12	1
143	Road Sub Base and Base Course	3.33	MORTH 503	<b>Providing and applying tack coat</b> on the prepared surface heating by flames in Boiler and spraying bitumen with sprayer on Concrete surface treated with <b>primer @ 3.25 kg/10 sqm</b> (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 503	Square Metre	14	1
144	Road Sub Base and Base Course	3.34	MORTH 503	<b>Providing and applying tack coat with bitumen emulsion (RS1)</b> using emulsion pressure distributor at the rate of 0.20 kg per Sq.M. on the prepared bituminous cleaned with mechanical broom	MORTH 503	Square Metre	10	1
145	Road Sub Base and Base Course	3.35a	MORTH 505	Providing and constructing <b>75 mm. thick Modified Penetration Macadam (MPM)</b> road surface including all materials, preparing the existing road surface, spreading 40 mm. stone metal layers <b>30% crusher broken metal + 70% Hand broken</b> (by breaking rubble obtained by blasting) heating and spraying the bitumen of specified grade @ 2 Kg/sqm, spreading 12 mm.size chips compacting with three wheel static roller having weight 8 to 10 MT. to achive the desired degree of compaction as per Technical Specification Clause 506 etc. complete. Including picking of existing WBM surface. (VG-30 bulk bitumen rates are considered to arrive at rates)	IRC-SP-20, 2002 Clause No. 8.7.3	Square Metre	183	6
146	Road Sub Base and Base Course	3.35b	MORTH 505	Providing and constructing <b>75 mm. thick Modified Penetration Macadam (MPM)</b> road surface including all materials, preparing the existing road surface, spreading 40 mm. stone metal layers <b>100% crusher broken metal</b> with conical crusher plant heating and spraying the bitumen of specified grade @ 2 Kg/sqm, spreading 12 mm.size chips compacting with three wheel static roller having weight 8 to 10 MT. to achive the desired degree of compaction as per Technical Specification Clause 506 etc. complete. Including picking of existing WBM surface. (VG-30 bulk bitumen rates are considered to arrive at rates)	IRC-SP-20, 2002 Clause No. 8.7.3	Square Metre	199	6

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
147	Road Sub Base and Base Course	3.36a	MORTH 505	Providing and constructing <b>75 mm. thick Modified Penetration Macadam (MPM)</b> road surface including all materials, preparing the existing road surface, spreading 40 mm. stone layers metal <b>30% crusher broken metal + 70% Hand broken metal</b> (By breaking Rubble obtained by blasting) , heating and spraying the bitumen of specified grade @ 2 kg / sqm , spreading 12mm.size chips compacting with three wheel static roller having weight 8 to 10 MT. to achive the desired degree of compaction as per Technical Specification Clause 506 etc.complete, including applying tack coat of specified grade of bitumen at the rate of 0.30 Kg Sqm. on existing bitumen surface. (VG-30 bulk bitumen rates are considered to arrive at rates)	IRC-SP-20, 2002 Clause No. 8.7.3	Square Metre	181	2
148	Road Sub Base and Base Course	3.36b	MORTH 505	Providing and constructing <b>75 mm. thick Modified Penetration Macadam (MPM)</b> road surface including all materials, preparing the existing road surface, spreading 40 mm. stone layers metal <b>100% crusher broken metal</b> with conical crusher plant , heating and spraying the bitumen of specified grade @ 2 kg / sqm , spreading 12mm.size chips compacting with three wheel static roller having weight 8 to 10 MT. to achive the desired degree of compaction as per Technical Specification Clause 506 etc.complete, including applying tack coat of specified grade of bitumen at the rate of 0.30 Kg Sqm. on existing bitumen surface. (VG-30 bulk bitumen rates are considered to arrive at rates)	IRC-SP-20, 2002 Clause No. 8.7.3	Square Metre	197	2
149	Road Sub Base and Base Course	3.37a	MORTH 505	Providing and constructing <b>50 mm. thick Modified Penetration Macadam (MPM)</b> road surface including all mataerials, preparing the existing road surface, spreading 40mm. stone metal layers <b>30% crusher broken metal + 70% Hand broken</b> (by breaking rubble obtained by blasting) heating and spraying the bitumen of specified grade @ 1.75 kg/sqm, spreading 12mm.size chips compacting with static roller having weight 8 to 10 MT. to achive the desired degree of compaction as per Technical Specification Clause 506 etc. complete. Including picking of <b>existing WBM surface</b> .(VG-30 bulk bitumen rates are considered to arrive at rates)	IRC-SP-20, 2002 Clause No. 8.7.3	Square Metre	145	8

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
150	Road Sub Base and Base Course	3.37b	MORTH 505	Providing and constructing <b>50 mm. thick Modified Penetration Macadam (MPM)</b> road surface including all materials, preparing the existing road surface, spreading 40mm. stone metal layers <b>100% crusher broken metal with conical crusher</b> plant heating and spraying the bitumen of specified grade @ 1.75 kg/sqm, spreading 12mm.size chips compacting with static roller having weight 8 to 10 MT. to achieve the desired degree of compaction as per Technical Specification Clause 506 etc. complete. Including picking of <b>existing WBM surface.</b> (VG-30 bulk bitumen rates are considered to arrive at rates)	IRC-SP-20, 2002 Clause No. 8.7.3	Square Metre	156	8
151	Road Sub Base and Base Course	3.38a	MORTH 505	Providing and constructing <b>50 mm. thick Modified Penetration Macadam (MPM)</b> road surface including all materials, preparing the existing road surface, spreading 40mm. stone layers metal <b>30% crusher broken metal + 70% Hand broken</b> metal (By breaking Rubble obtained by blasting) , heating and spraying the bitumen of specified grade @ 1.75 kg / sqm, spreading 12mm.size chips compacting with Static roller having weight 8 to 10 MT. to achieve the desired degree of compaction as per Technical Specification Clause 506 etc.complete, including applying tack coat of bitumen Of specified grade at the rate of 0.30 Kg Sqm.(on existing bitumen surface.)	IRC-SP-20, 2002 Clause No. 8.7.3	Square Metre	138	2
152	Road Sub Base and Base Course	3.38b	MORTH 505	Providing and constructing <b>50 mm. thick Modified Penetration Macadam (MPM)</b> road surface including all materials, preparing the existing road surface, spreading 40mm. stone layers metal <b>100% crusher broken metal with conical crusher</b> plant, heating and spraying the bitumen of specified grade @ 1.75 kg / sqm, spreading 12mm.size chips compacting with Static roller having weight 8 to 10 MT. to achieve the desired degree of compaction as per Technical Specification Clause 506 etc.complete, including applying tack coat at the rate of 0.30 Kg Sqm.on existing bitumen surface. (VG-30 bulk bitumen rates are considered to arrive at rates)	IRC-SP-20, 2002 Clause No. 8.7.3	Square Metre	148	2

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
153	Road Sub Base and Base Course	3.39	MORTH 506	Providing, laying and compacting of <b>Built-up-spray grout layer 75 mm thick</b> over prepared base consisting of two layers composite construction of compacted crushed coarse aggregates with application of bituminous binder of bitumen of specified Grade @ 1.520 Kg/ Sqm after each layer, ( i.e 1.520x2=3.04 say 3.00 Kg/Sqm) and with key aggregates placed on top of the second layer and compacting <b>with static roller 8 to 10 MT</b> . Excluding cost of tack coat and scarifying etc. Complete.(VG-30 bulk bitumen rates are considered to arrive at rates)	IRC- 47	Square Metre	229	3
154	Road Sub Base and Base Course	3.40	MORTH 504	<b>BITUMINOUS MACADAM:</b> Proving and laying bituminous macadam using crushed aggregates of <b>Grading 1</b> , premixed with bituminous binder, transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 80/100 mm compacted thickness with 3.3 % using specified grade of Bitumen. -- USING <b>Batch mix type hot mix plant with SCADA, Sensor Paver, vibratory roller.(VG-30 bulk bitumen rates are considered to arrive at rates)</b>	MORTH 504	Cubic Metre	5201	64
155	Road Sub Base and Base Course	3.42	MORTH 504	<b>BITUMINOUS MACADAM:</b> --Providing and laying bituminous macadam using crushed aggregate of <b>Grading 1</b> , premixed with bituminous binder, transported at site with VTS, laid over a previously prepared surface , finished to the required grade ,level, alignment,and rolling to achieve the desired density for 80/100 mm compacted thickness with drum mix type hot mix plant with SCADA having complying essential features of Hot mix plant as per IRC-27 2009 specified conditions and attachments such as electronic load sensor based belt conveyers,automatic synchronization of bitumen and aggregate feeder,built in dust controller system and PLC for <b>Drum Mix plant ,Sensor paver,and Vibratory roller</b> excluding prime/Tack coat etc. complete -- <b>Bitumen 3.30% of specified grade (VG-30 bulk bitumen rates are considered to arrive at rates)</b>	MORTH 504	Cubic Metre	4758	65



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
156	Road Sub Base and Base Course	3.44	MORTH 505	<b>DENSE BITUMINOUS MACADAM:</b> Proving and laying dense bituminous macadam using crushed aggregates of <b>Grading 1</b> , premixed with bituminous binder of specified grade of Bitumen @ 4.50 per cent by weight of total mix and filler, transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired density for 76-100 mm compacted thickness .USING <b>Batch mix type hot mix plant with SCADA, Sensor Paver, Vibratory roller with Stone Dust filler.(VG-30 bulk bitumen rates are considered to arrive at rates)</b>	MORTH 507	Cubic Metre	6415	68
157	Road Sub Base and Base Course	3.46	MORTH 505	<b>DENSE BITUMINOUS MACADAM:</b> --Providing and laying dense bituminous macadam using crushed aggregate of <b>grading 1</b> , premixed with bituminous binder Bitumen of specified grade,@ 4.50 % by weight of total mix and filler, transported at site with VTS, laid over a previously prepared surface , finished to the required grade ,level, alignment,and rolling to achieve the desired density for 76/100 mm compacted thickness with drum mix type hot mix plant with SCADA having complying essential features of Hot mix plant as per IRC-27-2009 specified conditions and attachments such as electronic load sensor based belt conveyers, automatic synchronization of bitumen and aggregate feeder,built in dust controller system and PLC for <b>Drum Mix plant ,Sensor paver, and Vibratory roller</b> excluding prime/Tack coat etc. complete -- <b>Bitumen VG-30 grade with stone dust filler (VG-30 bulk bitumen rates are considered to arrive at rates)</b>	MORTH 507	Cubic Metre	5875	68
158	Road Sub Base and Base Course	3.48	MORTH 507	<b>BITUMINOUS CONCRETE:-</b> Providing and laying bituminous concrete using crushed aggregates of <b>grading 1</b> , premixed with bituminous binder @ 5.20 per cent by weight of total mix and filler, transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 50 mm compacted thickness with specified grade of Bitumen,Excluding prime / tack coat. For Bitumen of specified grade --USING <b>Batch mix type hot mix plant with SCADA, Sensor Paver, Vibratory roller with Stone Dust filler. (VG-30 bulk bitumen rates are considered to arrive at rates)</b>	MORTH 509	Cubic Metre	6793	69

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
159	Road Sub Base and Base Course	3.50	MORTH 507	<b>BITUMINOUS CONCRETE</b> --Providing and laying bituminous concrete using crushed aggregate of <b>grading 1</b> , premixed with bituminous binder @5.40% by weight of total mix and filler, transported at site with VTS, laid over a previously prepared surface, finished to the required grade ,level, alignment, and rolling to achieve the desired density for 50mm compacted thickness with <b>drum mix plant</b> with SCADA, Sensor paver and Vibratory roller excluding prime/Tack coat etc. complete -- <b>Bitumen of specified grade with stone dust filler. (VG-30 bulk bitumen rates are considered to arrive at rates)</b>	MORTH 509	Cubic Metre	6730	69

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
160	Road Surfacing Course	4.01	MORTH 513	Providing <b>bituminous Type A liquid seal coat</b> on bituminous surface including supplying all materials and bitumen of specified grade preparing existing road surface, heating and applying bitumen @ 0.98 KgSq.m. by mechanical means, spreading chips and rolling, <b>by static roller having weight 8 to 10 MT.</b> etc. complete. (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 513	Square Metre	47	1
161	Road Surfacing Course	4.03	MORTH 511	Providing and laying of <b>Type - B premix seal coat with HMP</b> of appropriate crushed stone chipping 6.70 mm size and penetration bitumen of specified grade @ 0.68 Kg / Sq.m. , preparing existing road surface including mixing in suitable Batch Mix plant and rolling <b>by static roller having weight 8 to 10 MT.</b> etc. complete. (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 513	Square Metre	45	1
162	Road Surfacing Course	4.04	MORTH 510	<b>Surface Dressing</b> -- Providing and laying surface dressing as wearing course in single coat using crushed stone aggregates of specified size on a layer of bituminous binder laid on prepared surface and rolling with 8-10 tonne smooth wheeled steel roller. -- <b>a) 19 mm nominal chippling size (bitumen 12.00 kg/10 Sq.M.)</b> -- Bitumen of specified grade (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 510	Square Metre	52	1
163	Road Surfacing Course	4.05	MORTH 510	<b>Surface Dressing</b> -- Providing and laying surface dressing as wearing course in single coat using crushed stone aggregates of specified size on a layer of bituminous binder laid on prepared surface and rolling with 8-10 tonne smooth wheeled steel roller. -- <b>b) 13 mm nominal chippling size (bitumen 10.00 kg/10 Sq.M)</b> -- Bitumen of specified grade (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 510	Square Metre	50	1
164	Road Surfacing Course	4.06	MORTH 510	<b>Surface Dressing</b> -- Providing and laying surface dressing as wearing course in single coat using crushed stone aggregates of specified size on a layer of bituminous binder laid on prepared surface and rolling with 8-10 tonne smooth wheeled steel roller. -- <b>c) 10 mm nominal chippling size (bitumen 9.0 kg/10 Sq.M)</b> -- Bitumen of specified grade (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 510	Square Metre	47	1

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
165	Road Surfacing Course	4.07	MORTH 510	<b>Surface Dressing</b> -- Providing and laying surface dressing as wearing course in single coat using crushed stone aggregates of specified size on a layer of bituminous binder laid on prepared surface and rolling with 8-10 tonne smooth wheeled steel roller. -- <b>d) 6 mm nominal chipping size (bitumen 7.50 kg/10 Sq.M</b> -- Bitumen of specified grade (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 510	Square Metre	41	1
166	Road Surfacing Course	4.11	MORTH 510	<b>Open Graded Premix Surfacing-</b> Providing and Laying OGC 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates premixed with bituminous binder transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction but <b>excluding prime / tack and Seal coat.</b> For Bitumen of specified grade-- <b>USING drum mix type hot mix plant with SCADA, Paver and Vibratory roller( over BT Surface) (VG-30 bulk bitumen rates are considered to arrive at rates)</b>	MORTH 511	Square Metre	122	4
167	Road Surfacing Course	4.12	MORTH 510	<b>Open Graded Premix Surfacing-</b> Providing and Laying OGC 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates premixed with bituminous binder transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction but <b>excluding prime / tack and Seal coat.</b> For Bitumen of specified grade-- <b>USING drum mix type hot mix plant with SCADA, Paver and Vibratory roller ( Over MPM Surface) (VG-30 bulk bitumen rates are considered to arrive at rates)</b>	MORTH 511	Square Metre	126	4
168	Road Surfacing Course	4.13	MORTH 511	<b>9 MM SEAL COAT:</b> Providing and laying of <b>Type A 9mm premix seal coat with HMP</b> of appropriate capacity crushed stone chipping 6.7 mm size and penetration bitumen of specified grade @ 1.2kg/Sq.m, preparing existing road surface by mechanical means, spreading chips and rolling, by static roller having weight 8 to 10 MT. etc. complete.(VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 513	Square Metre	67	5

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
169	Rigid Pavement	5.01	MORTH 602	Providing and laying in-situ <b>M30 Grade unreinforced plain cement concrete pavement</b> over a prepared sub base with 43 grade cement , coarse and fine aggregate( natural sand/ VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a <b>batching and mixing plant/ non tilting mixer and Weigh batcher</b> as per approved mix design, admixtures, transporting to site, spreading, <b>laying with approved make paver</b> , compacted and finished in a continuous operation, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound /by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre, admeasuring 80 mm at bottom and 40 mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge.	MORTH 602	Cubic Metre	5903	167
170	Rigid Pavement	5.02	MORTH 602	Providing and laying in-situ <b>M35 Grade unreinforced plain cement concrete pavement</b> over a prepared sub base with 43 grade cement , coarse and fine aggregate ( natural sand/ VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a <b>batching and mixing plant/ non tilting mixer and Weigh batcher</b> as per approved mix design, admixtures, transporting to site, spreading, <b>laying with approved make paver</b> , compacted and finished in a continuous operation, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound /by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre, admeasuring 80 mm at bottom and 40 mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge.	MORTH 602	Cubic Metre	5990	163

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
171	Rigid Pavement	5.03	MORTH 602	Providing and laying in-situ <b>M40 Grade unreinforced plain cement concrete pavement</b> over a prepared sub base with 43 grade cement , coarse and fine aggregate ( natural sand/ VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a <b>batching and mixing plant/ non tilting mixer and Weigh batcher</b> as per approved mix design, admixtures, transporting to site, spreading, <b>laying with approved make paver</b> , compacted and finished in a continuous operation, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound /by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre, admeasuring 80 mm at bottom and 40 mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge.	MORTH 602	Cubic Metre	6060	163
172	Rigid Pavement	5.04	MORTH 602	Providing and laying in-situ <b>M30 Grade unreinforced plain cement concrete pavement</b> over a prepared sub base with 43 grade cement , coarse and fine aggregate ( natural sand/ VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a <b>Tilting type Concrete Mixer</b> as per approved mix design, admixtures, spreading, laying compacting and finished in a continuous operation without paver machine, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound /by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre, admeasuring 80 mm at bottom and 40 mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge.	MORTH 602	Cubic Metre	5960	806

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
173	Rigid Pavement	5.05	MORTH 602	Providing and laying in-situ <b>M35 Grade unreinforced plain cement concrete pavement</b> over a prepared sub base with 43 grade cement , coarse and fine aggregate ( natural sand/ VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a <b>Tilting type Concrete Mixer</b> as per approved mix design, admixtures, spreading, laying compacting and finished in a continuous operation without paver machine, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound /by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre, admeasuring 80 mm at bottom and 40 mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge.	MORTH 602	Cubic Metre	6051	806
174	Rigid Pavement	5.06	MORTH 602	Providing and laying in-situ <b>M40 Grade unreinforced plain cement concrete pavement</b> over a prepared sub base with 43 grade cement , coarse and fine aggregate ( natural sand/ VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a <b>Tilting type Concrete Mixer</b> as per approved mix design, admixtures, spreading, laying compacting and finished in a continuous operation without paver machine, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound /by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre, admeasuring 80 mm at bottom and 40 mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge.	MORTH 602	Cubic Metre	6123	806

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
175	Rigid Pavement	5.07	MORTH 602	Providing and laying in-situ <b>M30 Grade unreinforced plain cement concrete pavement with max 20% fly Ash</b> ( Fly-ash upto 20% by weight of Cement) over a prepared sub base with 43 grade cement , coarse and fine aggregate ( natural sand/ VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a <b>batching and mixing plant/ non tilting mixer and Weigh batcher</b> as per approved mix design, admixtures, transporting to site, spreading, <b>laying with approved make paver</b> , compacted and finished in a continuous operation, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound /by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre, admeasuring 80 mm at bottom and 40 mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge.	MORTH 602	Cubic Metre	5646	167
176	Rigid Pavement	5.08	MORTH 602	Providing and laying in-situ <b>M35 Grade unreinforced plain cement concrete pavement with max 20% fly Ash</b> ( Fly-ash upto 20% by weight of Cement) over a prepared sub base with 43 grade cement , coarse and fine aggregate ( natural sand/ VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a <b>batching and mixing plant/ non tilting mixer and Weigh batcher</b> as per approved mix design, admixtures, transporting to site, spreading, <b>laying with approved make paver</b> , compacted and finished in a continuous operation, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound /by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre, admeasuring 80 mm at bottom and 40 mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge.	MORTH 602	Cubic Metre	5723	163



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
177	Rigid Pavement	5.09	MORTH 602	Providing and laying in-situ <b>M40 Grade unreinforced plain cement concrete pavement with max 20% fly Ash</b> ( Fly-ash upto 20% by weight of Cement) over a prepared sub base with 43 grade cement , coarse and fine aggregate ( natural sand/ VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a <b>batching and mixing plant/ non tilting mixer and Weigh batcher</b> as per approved mix design, admixtures, transporting to site, spreading, <b>laying with approved make paver</b> , compacted and finished in a continuous operation, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound /by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre, admeasuring 80 mm at bottom and 40 mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge.	MORTH 602	Cubic Metre	5787	163
178	Rigid Pavement	5.10	MORTH 602	Providing and laying in-situ <b>M30 Grade unreinforced plain cement concrete pavement with max 20% fly Ash</b> ( Fly-ash upto 20% by weight of Cement) over a prepared sub base with 43 grade cement , coarse and fine aggregate ( natural sand/ VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a <b>Tilting type Concrete Mixer</b> as per approved mix design, admixtures, spreading, laying compacting and finished in a continuous operation without paver machine, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound /by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre, admeasuring 80 mm at bottom and 40 mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge.	MORTH 602	Cubic Metre	5721	827

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
179	Rigid Pavement	5.11	MORTH 602	Providing and laying in-situ <b>M35 Grade unreinforced plain cement concrete pavement with max 20% fly Ash</b> ( Fly-ash upto 20% by weight of Cement) over a prepared sub base with 43 grade cement , coarse and fine aggregate ( natural sand/ VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a <b>Tilting type Concrete Mixer</b> as per approved mix design, admixtures, spreading, laying compacting and finished in a continuous operation without paver machine, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound /by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre, admeasuring 80 mm at bottom and 40 mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge.	MORTH 602	Cubic Metre	5803	827
180	Rigid Pavement	5.12	MORTH 602	Providing and laying in-situ <b>M40 Grade unreinforced plain cement concrete pavement with max 20% fly Ash</b> ( Fly-ash upto 20% by weight of Cement) over a prepared sub base with 43 grade cement , coarse and fine aggregate ( natural sand/ VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a <b>Tilting type Concrete Mixer</b> as per approved mix design, admixtures, spreading, laying compacting and finished in a continuous operation without paver machine, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound /by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre, admeasuring 80 mm at bottom and 40 mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge.	MORTH 602	Cubic Metre	5868	827

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
181	Rigid Pavement	5.13	MORTH 601	<b>Construction of dry lean cement concrete Sub- base</b> over a prepared sub-grade with coarse and fine aggregate ( natural sand/ VSI grade finely washed crushed sand) conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, , cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant/ Weigh batch mixer, transported to site with all leads and lifts, laid with a paver with electronic sensor /by suitable means as approved by Engineer-in-charge , compacting with vibratory roller, finishing, curing and including preparation of sub-grade surface if required etc. complete.	MORTH 601	Cubic Metre	2927	43
182	Rigid Pavement	5.14	As directed by Engineer Incharge	Providing and fixing in position <b>TMT FE 500, 32 mm dia</b> dowel bars precoated with anticorrosive epoxy paint of required Dia. 60 cms. Long and at 30.00 cm. C/C and wherever directed including handling, straightening, necessary cutting supported by TMT FE 500, chairs with proper alignment by using properly designed assembly of Bulkheads lubricating half length with bituminous paint as directed etc. complete.	RD	Number	387	125
183	Rigid Pavement	5.15	As directed by Engineer Incharge	Providing and fixing in position <b>TMT FE 500, 25mm dia</b> dowel bars precoated with anticorrosive epoxy paint of required Dia. 60 cms. Long and at 30.00 cm. C/C and wherever directed including handling, straightening, necessary cutting supported by TMT FE 500, chairs with proper alignment by using properly designed assembly of Bulkheads lubricating half length with bituminous paint as directed etc. complete.	RD	Number	307	125
184	Rigid Pavement	5.16	As directed by Engineer Incharge	Providing and fixing in position <b>TMT FE 500, tie bars</b> precoated with anticorrosive epoxy paint of 12 mm dia. 70 cms.long and at 30.00 cm. C/C and wherever directed including handling, straightening wrapping with paper of approved quality for half length, necessary cutting, handling, straightening , supported by assembly of TMT FE 500, chairs with proper alignment etc. complete.	RD	Number	213	125

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
185	Rigid Pavement	5.17	As directed by Engineer Incharge	<b>Cutting transverse contraction joints 3 to 4 mm wide and depth 60mm.</b> .in concrete slab using concrete cutting machine with diamond studded saw within 48 hours of casting of bay / slab etc. complete including subsequent widening of the groove 8 to 10 mm. wide at top having depth of 15 mm. as directed by Engineer incharge.	RD	Running Metre	69	15
186	Rigid Pavement	5.18	As directed by Engineer Incharge	<b>Providing to contraction joints polysuphide sealent</b> (Pouring grade) confirming to BS : 5212 - 1989 into sawed groove widened at top for sealent reservoir of specified size and shape as per detailed drawing including fixing Polyethylene foam backer rod of required diameter (appraox. 25% larger than the initial 3 mm.to 4 mm. joint) overlaid with bond breaking tape as per detailed drawing. Item includes cleaning the joints with water jet / air compressor and allowing joint to become thoroughly dry before sealent is applied and applying primer. <b>(A) Contraction and longitudinal joints (15 mm. deep x 8 mm.wide)</b>	RD	Running Metre	149	23
187	Rigid Pavement	5.19	As directed by Engineer Incharge	<b>Providing and laying 125 micron Low Density Polyethylene (LDPE) sheet</b> confirming to IS 3395 : 1997 below concrete pavement including all materials and labour complete.	RD	Square Metre	20	6
188	Rigid Pavement	5.20	As directed by Engineer Incharge	Providing and fixing <b>factory made Hydraulically pressed Mechanically vibrated and compacted precast inter locking cement concrete paving blocks 80MM thick in M-40 grade</b> of approved size and shape for City streets, small /medium market roads,low volume roads, utility cuts on arterial roads etc. as specified and as per IS 15658:2006 including cost of all materials, manufacturing, curing, transportation of blocks to work site including loading, unloading and stacking as directed, laying paving blocks in position over prepared bed of natural sand / crushed sand of 50 mm thickness including necessary excavation in all stratas, spreading blindge of fine sand over the prepared bed, compacting blocks by plate vibrator etc. complete.	IRC-SP-63	Square Metre	1034	80

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
189	Rigid Pavement	5.21	As directed by Engineer Incharge	Providing and fixing <b>factory made Hydraulically pressed Mechanically vibrated and compacted precast inter locking cement concrete paving blocks 100MM thick in M-50 grade</b> of approved size and shape for City streets and roads with high volume/ heavy traffice as specified and as per IS 15658:2006 including cost of all materials, manufacturing, curing, transportation of blocks to work site including loading, unloading and stacking as directed, laying paving blocks in position over prepared bed of natural sand / crushed sand of 50 mm thickness including necessary excavation in all stratas, spreading blinde of fine sand over the prepared bed, compacting blocks by plate vibrator etc. complete.	IRC-SP-63	Square Metre	1049	94
190	Rigid Pavement	5.22 a	As directed by Engineer Incharge	Providing and laying in situ cement concrete <b>M -30 with tremix treatment for 200 mm thickness</b> for Concrete Road is including laying plastic sheet for 125 micron thickness with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen ( excluding reinforcement) with coarse and fine aggregate ( natural sand/ VSI grade finely washed crushed sand) etc. complete	MORTH 602	Cubic Metre	6587	1632
191	Rigid Pavement (New item)	5.22 b	As directed by Engineer Incharge	Providing and laying in situ cement concrete <b>M -30 with tremix treatment for 200 mm thickness</b> for Concrete Road is including laying plastic sheet for 125 micron thickness with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with polysuphide sealent (Pouring grade) confirming to BS : 5212 - 1989 into sawed groove widened at top for sealent reservoir of specified size and shape as per detailed drawing including fixing Polyethylene foam backer rod of required diameter ( excluding reinforcement) with coarsen and fine aggregate Using V.S.I.Quality Artifitial Sand etc. complete	MORTH 602	Cubic Metre	6583	1632

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Road Furniture	6.01	MORTH 807	Providing and fixing trap/ granite/ quartzite/ gneiss guard stone/ indicator stones/ boundary stones of standard size and shape including fixing in block of ___ standard size with white washing etc.complete				
192	Road Furniture	a	MORTH 807	Fixing in Block of Standard Size of CC 1:4:8	MORTH 807	Number	423	131
193	Road Furniture	b	MORTH 807	Fixing In Ground	MORTH 807	Number	203	92
194	Road Furniture	c	MORTH 807	Fixing in M-15 R.C.C. 1:4:8	MORTH 807	Number	885	281
	Road Furniture	6.02	MORTH 805	Providing and fixing _____ metre stones as per I.R.C. standard including fixing in standard size _____ block including curing, painting lettering etc. complete.				
195	Road Furniture	a	MORTH 805	RCC 200 meter Stoen in CC 1:4:8	MORTH 805	Number	810	252
196	Road Furniture	b	MORTH 805	Fixing 1:2:4 ordinary km. stones in C.C. 1:4:8	MORTH 805	Number	2526	685
197	Road Furniture	c	MORTH 805	Fixing R.C.C. 5th Km. stones, in c.c. 1:4:8	MORTH 805	Number	4265	1228
	Road Furniture	6.03	MORTH 202	Dismantling of _____ Stone including cutting of earth, foundation and disposal of dismantled material with all lifts and lead upto 1000 m and back filling of pit.				
198	Road Furniture	a	MORTH 202	Dismantling 5th Km. Stone	MORTH 805	Number	592	440
199	Road Furniture	b	MORTH 202	Ordinary Km. Stone	MORTH 805	Number	351	257
200	Road Furniture	c	MORTH 202	Hectometer Stone	MORTH 805	Number	70	51
	Road Furniture	6.04	MORTH 805.1	Painting with approved enamel paint in two coats including cleaning surface and lettering for _____ stone etc. complete.				
201	Road Furniture	a	MORTH 805.1	200 Mt. Stone	MORTH 805.1	Number	114	83
202	Road Furniture	b	MORTH 805.1	Ordinary Kilometer Stone	MORTH 805.1	Number	404	262
203	Road Furniture	c	MORTH 805.1	Lettering of Fifth Km. Stone	MORTH 805.1	Number	432	213

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
204	Road Furniture	d	MORTH 805.1	Lettering of Boundary Stone	MORTH 807	Number	36	16
205	Road Furniture	e	MORTH 801	Lettering for cautionary/ mandatory sign boards and village name boards	MORTH 801	Number	168	105
206	Road Furniture	f	MORTH 801	Lettering for informatory sign boards etc. complete.	MORTH 801	Number	209	132
207	Road Furniture	g	MORTH 801	Lettering on masonry works with nalla flow direction, span number and location etc. complete.	MORTH 801	Number	24	13
208	Road Furniture	6.05	MORTH 801	Painting letters upto 20 cm height complete brushes, coir brushes, dusting, cleaning, including cost of paint etc. complete.	MORTH 801	Number	21	16
209	Road Furniture	6.06	MORTH 801	Painting and numbering trees with white background and black lettering etc. complete.	MORTH 801	Number	25	20
210	Road Furniture	6.07	MORTH 801	Providing white and colour washing to road side trees in 2 coats in 2 bands of white and one red band at centre of 30 cm height each including preparing the surface, cost of material, conveying etc. complete.	MORTH 801	Number	42	29
	Road Furniture	6.08	MORTH 801	Painting Line, Dashes, Arrows etc on Roads in two coats on new work with ready mixed road marking paint confirming to I.S. 164 on Bituminous surface including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control (Over/Upto __cm wide) (MORTH-803) --_____ Surface				
211		a	MORTH 801	Over 10cm Wide On New Surface	MORTH 803	Square Meter	302	114
212	Road Furniture	b	MORTH 801	Upto 10 cm Wide On Old Surface	MORTH 803	Square Meter	275	92
213		c	MORTH 801	Over 10cm Wide On Old Surface	MORTH 803	Square Meter	201	83
214	Road Furniture	d	MORTH 801	Upto 10 cm Wide On Old Surface	MORTH 803	Square Meter	211	92

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
215	Road Furniture	6.09	MORTH 806	Supplying and Fixing of Molded Shank Raised Pavement Markers / Cat's Eye made of polycarbonate and ABS moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 +/- 2 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30 +/- 2 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. The contractor shall submit a two year warranty for satisfactory field performance including stipulated retro-reflectance of the reflecting panel, to the Engineer.	MORTH 804	Number	459	67



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
216	Road Furniture	6.10	MORTH 806	Providing and Fixing of Median Marker that are made of tough, high impact resistant, injection-molded, thermoplastic body with an isosceles trapezoidal structure of length, width and height not less than 15cm, 10cm and 10cm respectively and thickness not less than 1.8mm, the body structure shall be rounded at its acute angle, all the corners and edges. The plastic used for molding the Median Marker shall have a minimum Notched Izod Impact strength value of 600 J/m at room temperature, when tested in accordance with ASTM D256 and shall retain at least 70% of this value when subjected to accelerated weathering for 1000hrs as per ASTM G155 or UL746C. The logo of the manufacturer shall be embossed on either side of the body in the injection molding process. The Median Marker shall have rectangular-shaped, fluorescent yellow color retro-reflective sheeting of size not less than 8.5cm*8.5cm and with fully reflective micro prismatic cube corners as its retro-reflective elements as per IRC 67 2010 and ASTM D4956 type XI specifications reflectivity values. The retro-reflective sheeting shall be one or both sides of the Median Marker and shall be edge protected with no exposed edges which will prevent edge lifting, vandalism, sheeting damage, etc. The Median Marker shall be fixed by a combination of epoxy adhesive and grouting.	MORTH 806	Number	679	22
217	Road Furniture	6.11	MORTH 804	Providing and fixing reflective fluorescent tape on old road sign board by following the procedure recommended by manufacturer. Tape shall consist of white or coloured sheeting having smooth outer surface which has the property of retro-reflection over its entire surface. It shall be weather resistant and show colour fastness. It shall be new and unused and shall show no evidence of cracking, scaling, pitting, blistering, edge lifting and shall have negligible shrinkage or expansion including cleaning / scraping and painting of existing board etc. complete. (Guidance on the recommended application of each class of tape may be taken from IRC-67)	MORTH 804	Square Meter	5739	1563

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
218	Road Furniture	6.12a	MORTH 803.4	Road Marking with Hot Applied Thermoplastic Compound with Reflectoring Glass Beads on Bituminous Surface- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectoring glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes.complete.	MORTH 803.4	Square Meter	666	27
219	Road Furniture (New item)	6.12 b	MORTH 803.4	Providing and applying Cold plastic paint two component rolled on surfacing material solvent free,high build two pack seamless,tough,skid resistant,material with has property of attaining 2.00mm thickness in single coat application white(or as required colour )based on glass and colour retaining acralic cross linking resin system for coloured road surfacing including surface cleaning and cost of all material etc. complete. (All inclusive on bitumen or concrete surface) work shall carried out as per IRC 35-2015 clause 2.2)	MORTH 803.4	Square Meter	1506	27

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
220	Road Furniture	6.13	MORTH 806	Providing and fixing Aluminum-backed flexible prismatic (AFP) sheeting consisting Yellow colored flexible prismatic sheeting with non-metallic prismatic lens as Retroreflective elements and conforming to ASTM D 4956-09 Type VI specification for rebound able Retroreflective sheeting. This flexible prismatic sheeting shall be of 1ft width and laminated at the back with a 50 micron Aluminum (Al) foil with pressure sensitive adhesive and liner. Further, this flexible prismatic sheeting shall have screen printed arrow/slant line pattern in black color in a continuous roll format. Neither AFP sheeting nor the flexible prismatic sheeting used in it shall crack when slowly bent in 1 second time around a 1/8th inch mandrel after being conditioned for 24hrs at 0°C and tested as per section S2.2.2. of ASTM D 4956-09. The AFP sheeting, with the liner removed, shall be applied with a neoprene contact adhesive with a Polychloroprene as base, viscosity of 200-450 cps and solid content of 20-30%. Once applied, the edges of the product shall be sealed all around with a two-part epoxy based structural adhesive and shall be extremely resistant to peel-off. A test report from institutes like ARAI/CRRRI confirming to above mentioned flexibility and ASTM-D4956-09 Type-VI retro reflectivity performance of the flexible prismatic sheeting used in AFP shall be submitted by the tenderer during prequalification and supply of material.	MORTH 806	Square Meter	7783	310

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
221	Road Furniture	6.14	MORTH 806	Providing Vertical Delineator having wide angle cube corner micro prismatic non metallic reflective sheeting confirming to Type XI of ASTM D4956 -09 with White Color and Red Color combination and having minimum of retro reflective exposed area of 125 Sq CM on top slots and 35 Sq CM on bottom slots and no edges shall be exposed for tampering. This tubular delineator shall have a core and shell construction, shell shall be made of tough, high impact resistant, injection-molded, thermoplastic outer body and the inner core shall consist of powder coated or painted Mild steel of minimum thickness 1.0mm.and core-shell structure shall be of height not less than 800 mm above the ground and width not less than 80 mm. The metallic core of the delineator shall extend 300mm beyond the shell length from bottom for installing in the ground. The extended portion shall have slots to insert anchoring rods for enhancing the concrete grip. The logo of the manufacturer shall be embossed on either side of the body in the injection molding process. The engineering thermoplastic used for making the delineator body shall have minimum initial mechanical properties of 600J/m tested in accordance with ASTM D256 and shall retain at least 70% of these minimum initial values when subjected to accelerated weathering for 1000hrs as per ASTM G155 or UL 746C and as per IRC 79 specifications and including fixing the unit in M20 Grade Cement Concrete of Size 30x30x40 cm including excavation for pit.	MORTH 806	Number	2887	383
222	Road Furniture	6.15	MORTH 806	Road Delineators: Supplying and installation of delineators (Roadway Indicators, Hazard markers, Object markers) 80 to 100 cm high above ground level, painted black and white in 15 cm wide strips, fitted with 80x100mm rectangular or 75mm dia. Circular reflectorised panels at the top, buried or pressed into the ground and confirming to I.R.C. 79 and the drawings	MORTH 806	Number	1043	18

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
223	Road Furniture	6.16	MORTH 806	Providing and fixing steel pipe delineators of 10 cm. in diameter and total height of 130 cm, provided with 2 strips of white retroreflective sheeting of size 5 cm. x 32.5 cm. each fixed horizontally and 2 strips of red retroreflective sheeting each having size 5 cm. x 32.5 cm. fixed horizontally at top, with M.S. round cap having diameter 11 cm. and wire mesh at top (10 guage thick) and height of wire mesh 15 cm, M.S. hold fast 6 mm thick with 35 cm. in length, fixing the delineators in C.C. 1:4:8 concrete block of size 25 cm. x 25 cm. x 45 cm. with necessary excavation etc. complete.	MORTH 806	Number	1121	18
224	Road Furniture	6.17	MORTH 804	Supplying of Solar Raised Pavement Markers made of polycarbonate molded body with circular shape, solar powered, LED self illumination in active mode, 360 degree illumination and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face in passive mode. The marker shall support a load of 20000 kg tested in accordance to ASTM D 4280. The marker should be resistant to dust and water ingress according to IP 65 standards and should withstand temperatures in the range of 0 C to 70 C. Color of lighting could be provided in red or yellow (amber) as per requirement and typical frequency of blinking is 1 Hz. There should be current losses of less than 20 micro-amperes at 2.4 V in sleep-charging mode to enhance the life of the marker and a full charge should provide for a minimum autonomy of 50 hours. The height, width and length of the marker shall not be less than 10 mm x 100 mm x 100 mm. Also, the surface diameter of the marker shall not be less than 100 mm respectively. The weight of the marker shall not exceed 0.5 Kilograms. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive and complete as directed by the engineer. The contractor shall submit a two year warranty for satisfactory field performance including stipulated retro-reflectance of the reflecting panel, to the Engineer.	MORTH 804	Number	3965	129
225	Road Furniture	6.18	MORTH 806	Supplying precast conventional reflective delinators on four sides for road signs	MORTH 806	Number	550	114

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
226	Road Furniture	6.19	MORTH 801	Fixing in position Cautionary/ Mandatory sign boards in ground with C C 1:4:8 block of 60cm x 60cm x 75cm size etc. complete as directed including all leads.	MORTH 801	Number	836	102
227	Road Furniture	6.20	MORTH 801	Fixing in position Road Junction/ Informatory Sign Board in ground with C.C.1:4:8 block of 60cm x 60cm x 75cm size including all leads complete.	MORTH 801	Number	1672	205
228	Road Furniture	6.21	MORTH 806	Providing and fixing including conveyance charges upto a distance of 200 Km. precast concrete post delinators, post of size 130 x 90 x 1300 millimetre consisting of 4 B.T. wires with 14,000 Kg/cm <sup>2</sup> C.C. M-20 grade 16mm dia. hold fast, including excavation and C.C. 1:4:8 foundation block, oil painting post with 3 coats and Red fluorescent tape 75 x 75mm and white floursent border 20mm wide around the red tape on all the four sides with necessary adhesive and lamination etc. complete.	MORTH 806	Number	661	116
229	Road Furniture	6.22	MORTH 801	Supplying rolled steel channel post of 100 x 50 mm (ISMC) drilled on top and painted with one coat of epoxy primer and two coats of epoxy finish paint having black and white bands of 25 cm last part of the post 0.75 m below ground level is painted with three coats of red lead paint with 2 nos. of high tensile G.I. bolt and nut of size 10 mm Dia. of 25 mm long including transportation etc. complete. Spec. No. : As per IRC-67, and M.O.R.T. and H. Circular No. RW/NH-33023/31/88 D.O.III Dated 2-5-1994	MORTH 801	Running Metre	1154	177
230	Road Furniture	6.23	MORTH 801	Supplying M.S. Angle iron post of size 65 mm x 65 mm x 6 mm drilled on top and painted with one coat of epoxy primer and two coats of epoxy finish paint having black and white bands of 25 cm, last part of the post 0.75 m below ground level is painted with three coats of red lead paint with 2 nos. of high tensile G.I. bolt and nut of size 10 mm dia. of 25 mm long including transportation etc. complete. Spec. No. : As per IRC-67, and M.O.R.T. and H. Circular No. RW/NH-33023/31/88 D.O.III Dated 2-5-1994	MORTH 801	Running Metre	1096	220

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Road Furniture	6.24	MORTH 801	Supplying M.S. Angle iron post of size _____ duly painted with one coat of red oxide paint and two coats of synthetic enamel finish paint having black and white bands of 25 cm width including 2 nos of G.I. bolt and nut of size 10 mm dia. And 20 mm long including transportation etc. complete. Spec. No. : As per IRC-67, and M.O.R.T. and H. Circular No. RW/NH-33023/31/88 D.O.III Dated 2-5-1994				
231	Road Furniture	a		Post of size 65 mm x 65 mm x 6 mm	MORTH 801	Running Metre	630	140
232	Road Furniture	b	MORTH 801	Post of size 50 mm x 50 mm x 5 mm	MORTH 801	Running Metre	432	140
233	Road Furniture	6.25	MORTH 801	Supplying M.S. Angle iron frame for informatory sign boards of size 35 mm x 35 mm x 3 mm welded and making necessary holes required for fixing and painted with one coat of epoxy primer and two coats epoxy finish paint etc. complete.Spec. No. : As per IRC-67, and M.O.R.T. and H. Circular No. RW/NH-33023/31/88 D.O.III Dated 2-5-1994	MORTH 801	Running Metre	324	140
	Road Furniture	6.26	MORTH 805	Providing and constructing Information Pillar of Brick Masonry in C.M. 1:6 of size 2.0 m x 0.23m x 1.0 m with base pedestal of size 2.3 m x 0.35 m x 0.45 m (0.3 m above ground), excavtion in ground upto 0.4 m, laying 0.15 m thick 80 mm soling,0.10 m thick c.c. 1:3:6, finishing the pedestal and pillar in cement plaster 12 mm thick in C.M. 1:5 and finishing the pillar with neat cement finish ,applying flat oil paint of approved colour in two coats, including curing, finishing etc complete.(In Strata/Soil _____) Spec. No. :As directed by Engineer-in-charge.				
234	Road Furniture	a	MORTH 805	In Strata other than B.C. Soil	MORTH 805	Number	11230	3548
235	Road Furniture	b	MORTH 805	In B.C. Soil with 12 mm thick R.C.C. raft in M-15, including reinforcement .	MORTH 805	Number	13100	3744

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Road Furniture	6.27	MORTH 801	Providing and fixing Mandatory/Regulatory sign boards in circular shape of _____ mm dia made out of ____mm aluminum sheet bonded with white retro reflective sheeting of Class B ( Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retroreflective specified back ground, border and back side retroreflective symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3 Supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with grey stove enamel paint and supported on one no. of M. S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.45 m long, duly painted with with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M25 grade concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. Class B ( Type IV High intensity micro-prismatic grade sheeting-HIP) shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier.				
236	Road Furniture	a	MORTH 801	600 mm dia made out of 1.5mm aluminum sheet	MORTH 801	Number	3422	323
237	Road Furniture	b	MORTH 801	750 mm dia made out of 2mm aluminum sheet	MORTH 801	Number	3427	133
238	Road Furniture	c	MORTH 801	900 mm dia made out of 2mm aluminum sheet	MORTH 801	Number	4395	323
239	Road Furniture	d	MORTH 801	1200 mm dia made out of 2mm aluminum sheet	MORTH 801	Number	4330	133
240	Road Furniture	e	MORTH 801	600 mm dia made out of 3mm aluminum composite material	MORTH 801	Number	5492	298
241	Road Furniture	b	MORTH 801	750 mm dia made out of 4mm aluminum composite material	MORTH 801	Number	5564	298



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
242	Road Furniture	c	MORTH 801	900 mm dia made out of 4mm aluminum composite material	MORTH 801	Number	8405	298
243	Road Furniture	d	MORTH 801	1200 mm dia made out of 4mm aluminum composite material	MORTH 801	Number	8533	298
	Road Furniture	6.28	MORTH 801	Providing and fixing Mandatory/Regulatory sign boards in circular shape of ___mm dia made out of ___mm aluminum sheet bonded with white retro reflective sheeting of Class C ( Type XI Micro prismatic grade sheeting) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflective symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3 Supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with grey stove enamel paint and supported on one no. of M. S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.45 m long, duly painted with with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M25 grade concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. Class C ( Type XI Micro prismatic grade sheeting) shall have 10 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier.				
244	Road Furniture	a	MORTH 801	600 mm dia made out of 1.5mm aluminum sheet	MORTH 801	Number	4099	323
245	Road Furniture	b	MORTH 801	600 mm dia made out of 3mm aluminum composite material	MORTH 801	Number	4104	323
246	Road Furniture	c	MORTH 801	750 mm dia made out of 2mm aluminum sheet	MORTH 801	Number	5492	323
247	Road Furniture	d	MORTH 801	750 mm dia made out of 4mm aluminum composite material	MORTH 801	Number	5542	323
248	Road Furniture	e	MORTH 801	900 mm dia made out of 2mm aluminum sheet	MORTH 801	Number	7145	298

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
249	Road Furniture	f	MORTH 801	900 mm dia made out of 4mm aluminum composite material	MORTH 801	Number	7218	298
250	Road Furniture	g	MORTH 801	1200 mm dia made out of 2mm aluminum sheet	MORTH 801	Number	11579	298
251	Road Furniture	h	MORTH 801	1200 mm dia made out of 4mm aluminum composite material	MORTH 801	Number	11706	298
	Road Furniture	6.29	MORTH 801	Providing and fixing Cautionary/Warning sign boards in Equilateral Triangle size of ___mm made out of ___mm aluminum sheet bonded with white retro reflective sheeting of Class B ( Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflective symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3 Supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with grey stove enamel paint and supported on one no. of M. S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.45 m long, duly painted with with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M25 grade concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. Class B ( Type IV High intensity micro-prismatic grade sheeting-HIP) shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier.				
252	Road Furniture	a	MORTH 801	600 mm made out of 1.5mm aluminum sheet	MORTH 801	Number	2835	323
253	Road Furniture	b	MORTH 801	600 mm made out of 3mm aluminum composite material	MORTH 801	Number	2838	323
254	Road Furniture	c	MORTH 801	750 mm made out of 2mm aluminum sheet	MORTH 801	Number	3201	323
255	Road Furniture	d	MORTH 801	750 mm made out of 4mm aluminum composite material	MORTH 801	Number	3225	323

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
256	Road Furniture	e	MORTH 801	900 mm out of 2mm aluminum sheet	MORTH 801	Number	3924	298
257	Road Furniture	f	MORTH 801	900 mm made out of 4mm aluminum composite material	MORTH 801	Number	3963	298
258	Road Furniture	g	MORTH 801	1200 mm made out of 2mm aluminum sheet	MORTH 801	Number	5462	298
259	Road Furniture	h	MORTH 801	1200 mm made out of 4mm aluminum composite material	MORTH 801	Number	5533	298
	Road Furniture	6.30	MORTH 801	Providing and fixing Cautionary/Warning sign boards in Equilateral Triangle size of ____ mm made out of ____mm aluminum sheet bonded with white retro reflective sheeting of Class C ( Type XI Micro prismatic grade sheeting) having pressure sensitive/heat activated adhesive retroreflective specified back ground, border and back side retroreflective symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3 Supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with grey stove enamel paint and supported on one no. of M. S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.45 m long, duly painted with with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M25 grade concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. ClassC ( Type XI Micro prismatic grade sheeting) shall have 10 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier.				
260	Road Furniture	a	MORTH 801	600 mm made out of 1.5mm aluminum sheet	MORTH 801	Number	3204	323
261	Road Furniture	b	MORTH 801	600 mm made out of 3mm aluminum composite material	MORTH 801	Number	3207	323

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
262	Road Furniture	c	MORTH 801	750 mm made out of 2mm aluminum sheet	MORTH 801	Number	3708	323
263	Road Furniture	d	MORTH 801	750 mm made out of 4mm aluminum composite material	MORTH 801	Number	3732	323
264	Road Furniture	e	MORTH 801	900 mm made out of 2mm aluminum sheet	MORTH 801	Number	4784	298
265	Road Furniture	f	MORTH 801	900 mm made out of 4mm aluminum composite material	MORTH 801	Number	4824	298
266	Road Furniture	g	MORTH 801	1200 mm made out of 2mm aluminum sheet	MORTH 801	Number	7070	298
267	Road Furniture	h	MORTH 801	1200 mm made out of 4mm aluminum composite material	MORTH 801	Number	7140	298

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Road Furniture	6.31	MORTH 801	Providing and fixing Cautionary/Warning sign boards in Octagone size of ____mm made out of ____mm aluminum sheet bonded with white retro reflective sheeting of Class B ( Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflective symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3 Supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with grey stove enamel paint and supported on one no. of M. S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.45 m long, duly painted with with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M25 grade concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. Class B ( Type IV High intensity micro-prismatic grade sheeting-HIP) shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier.				
268	Road Furniture	a	MORTH 801	750 mm made out of 2mm aluminum sheet	MORTH 801	Number	5066	323
269	Road Furniture	b	MORTH 801	750 mm made out of 4mm aluminum composite material	MORTH 801	Number	5130	323
270	Road Furniture	c	MORTH 801	900 mm out of 2mm aluminum sheet	MORTH 801	Number	6458	298
271	Road Furniture	d	MORTH 801	900 mm made out of 4mm aluminum composite material	MORTH 801	Number	6549	298

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Road Furniture	6.32	MORTH 801	Providing and fixing Cautionary/Warning sign boards in Octagone size of _____ mm made out of ____mm aluminum sheet bonded with white retro reflective sheeting of Class C ( Type XI Micro prismatic grade sheeting) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflective symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3 Supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with grey stove enamel paint and supported on one no. of M. S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.45 m long, duly painted with with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M25 grade concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. Class C ( Type XI Micro prismatic grade sheeting) shall have 10 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier.				
272	Road Furniture	a	MORTH 801	750 mm made out of 2mm aluminum sheet	MORTH 801	Number	6501	323
273	Road Furniture	b	MORTH 801	750 mm made out of 4mm aluminum composite material	MORTH 801	Number	6565	323
274	Road Furniture	c	MORTH 801	900 mm made out of 2mm aluminum sheet	MORTH 801	Number	8614	298
275	Road Furniture	d	MORTH 801	900 mm made out of 4mm aluminum composite material	MORTH 801	Number	8705	298

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Road Furniture	6.33		Providing and fixing of retro- reflectorised informatory sign board rectangular/Square in shape having area less than 0.9 square meter made out of ____mm aluminum sheet bonded with white retro reflective sheeting of Class __ ( Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retroreflective specified back ground, border and back side retroreflective symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3, supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with two coats of grey stove enamel paint and supported on one no. mild steel angle iron post 75 mm x 75 mm x 6 mm, 3.5 mt long firmly fixed to the ground by means of properly designed foundation with M25 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing The angle iron post shall be duly painted with one coat of epoxy primer and two coats of epoxy finish paints having alternate black and white bands of 25 cm width including GI fixures and transportation etc.complete.The nut bolts of board with angle iron post/supporting structure after fixing at site has to be electrically welded. Class B ( Type IV High intensity micro-prismatic grade sheeting-HIP) sheeting shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier.				
276	Road Furniture	a	MORTH 801	2mm aluminum sheet Class B	MORTH 801	Square Meter	7657	298
277	Road Furniture	b	MORTH 801	4mm aluminum composite material Class B	MORTH 801	Square Meter	7770	108
278	Road Furniture	c	MORTH 801	2mm aluminum sheet of Class C	MORTH 801	Square Meter	10405	298
279	Road Furniture	d	MORTH 801	4mm aluminum composite material Class C	MORTH 801	Square Meter	10518	108

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Road Furniture	6.34		Providing and fixing of retro- reflectorised informatory sign board rectangular/Square in shape having area greater than 0.9 square meter made out of ___mm aluminum sheet bonded with white retro reflective sheeting of Class __ ( Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retroreflective specified back ground, border and back side retroreflective symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3, supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with two coats of grey stove enamel paint and supported on two no. mild steel angle iron post 75 mm x 75 mm x 6 mm, 3.5 mt long firmly fixed to the ground by means of properly designed foundation with M25 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing The angle iron post shall be duly painted with one coat of epoxy primer and two coats of epoxy finish paints having alternate black and white bands of 25 cm width including GI fixures and transportation etc.complete.The nut bolts of board with angle iron post/supporting structure after fixing at site has to be electrically welded. Class B ( Type IV High intensity micro-prismatic grade sheeting-HIP) sheeting shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier.				
280	Road Furniture	a	MORTH 801	2mm aluminum sheet Class B	MORTH 801	Square Meter	9554	359
281	Road Furniture	b	MORTH 801	4mm aluminum composite material of Class B	MORTH 801	Square Meter	9667	359
282	Road Furniture	c	MORTH 801	2mm aluminum sheet bonded of Class C	MORTH 801	Square Meter	12302	359
283	Road Furniture	d	MORTH 801	4mm aluminum composite material of Class C	MORTH 801	Square Meter	12415	359



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Road Furniture	6.35	MORTH 801	Providing and erecting Overhead signs made out of ___mm aluminum sheet bonded with white retro reflective sheeting of Class__ ( Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retroreflective specified back ground, border and back side retroreflective symbols, letters, numerals, arrow as per IRC:67-2012, with designed back support frame of mild steel angle with vertical and lateral clearance given in clause 801 and 802, duly painted on back side with two coats of grey stove enamel paint and installed as per clause 802.6 over a designed support system of structural steel work trestles and trusses of sections and type as per structural design requirements and approved plans including painting with one coat of epoxy primer and two coats of epoxy finish paint.The nut bolts of board with angle iron post/supporting structure after fixing at site has to be electrically welded. Class B ( Type IV High intensity micro-prismatic grade sheeting-HIP) sheeting shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier.This item does not include the cost of structural steel work required for support system.				
284	Road Furniture	a	MORTH 801	2mm aluminum sheet of Class B	MORTH 801	Square Meter	5624	141
285	Road Furniture	b	MORTH 801	4mm aluminum composite material of Class B	MORTH 801	Square Meter	5737	141
286	Road Furniture	c	MORTH 801	2mm aluminum sheet of Class C	MORTH 801	Square Meter	8373	141
287	Road Furniture	d	MORTH 801	4mm aluminum composite material Class C	MORTH 801	Square Meter	8486	141

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
288	Road Furniture	6.36	MORTH 801	Providing and fixing board displaying information, such as 'Name of work, Tender cost, Name of Contractor, Work completion and liability period etc', having rectangular shape of 1.20m x 0.90m size made out 18 gauge (1.25mm) thick mild steel sheet painted with one coat of Zinc chromate stoving primer and two coats of enamel paint on front side and grey stove enamel on back side and border / messages / symbols etc. with approved colour shade paint complete, on M.S.angle of size 35 x 35 x 3 mm frame with properly cross braced M.S. angles of size 35mmx35mmx3mm duly painted including Two M.S. angle iron posts of size 65 mm x 65 mm x 6 mm, 3.65 m long painted with alternate black and white bands of 25 cm width including all fixtures etc.and fixing the boards in 1:4:8 concrete block of size 60 cm x 60 cm x 75 cm including, excavation, refilling, transportation, and labour etc complete. Spec. No. As directed by Engineer in Charge	MORTH 801	Number	8078	2500
289	Road Furniture	6.37	MORTH 805	Providing and fixing R.C.C. precast cement concrete M-15 pedestal OF SIZE 0.75 X 0.75 X 0.20 m including cost of steel reinforcement for Km. stone as per detailed drawing and specification including transportation of pedestal Block, all lifts etc. complete.	As directed by Engineer-in-charge.	Number	1395	252

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
290	Road Furniture	6.38		Providing and fixing <b>cautionary / warning sign board of size 60 cm.</b> having shape of <b>equilateral triangle</b> with apex point upwards. prepared on <b>16 gauge M.S. sheet</b> including painting with one coat of zinc chromate stoving primer and two coats each of white back ground, red border and backside gray stove enamelled, bonded with cut out of Retro reflective sheet Engineering grade, symbol / letters / numerals / border / arrow, coated with non pealable crystal clear protective transparent coat retaining 100% reflection including one number of M.S. Angle iron post of size 50 x 50 x 5 mm of 3.65 m. long inflated at bottom drilled on top in one piece without joint painted with white and black bands of 30 cm. fixing board and post with 2 Nos. high strength G.I. bolts and nuts of size 10 mm dia. and 20 mm long including all taxes, conveying, fixing in ground with cement concrete 1:4:8 block of 60 cm x 60 cm x 75 cm size etc.complete. 60 cm. equilateral triangle M.S. sheet with Engineering grade,	IRC-67 2012	Number	3677	754

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
291	Road Furniture	6.39		Providing and fixing <b>Mandatory / Regulatory sign board of circular shape of size 60 cm. dia.</b> prepared on <b>16 gauge M.S. sheet</b> including painting with zinc chromate stoving primer and two coats each of white back ground, red border and backside gray stove enamelled, bonded with cut out of Retro reflective sheet Engineering grade, symbol / letters / numerals / border, coated with non peelable crystal clear protective transparent coat retaining 100% reflection including one number of M.S. Angle iron post of size 50 x 50 x 5 mm of 3.45 m. long inflated at bottom drilled on top in one piece without joint painted with white and black bands of 30 cm. fixing board and post with 2 Nos. high strength G.I. bolts and nuts of size 10 mm dia. and 20 mm long including all taxes, conveying, fixing in ground with cement concrete 1:4:8 block of 60 cm x 60 cm x 75 cm size etc. complete. circular shape of size 60 cm. dia. M.S. sheet with Retro reflective sheet Engineering grade	IRC-67 2012	Number	4558	754
292	Road Furniture	6.40		Providing and fixing <b>sign boards of size 90cm having shape of an equilateral triangle</b> made out of <b>14 gauge sheet with retro reflective sheeting</b> of Engineering Grade as per M.O.T. specification No. 801-3(1993) white reflective back ground, lettering symbol bordering of black non reflective paint including M. S. angle iron back frame of size 35 mm X 35 mm X 5 mm & M.S. angle one post of 50mm x 50mm x 5mm size 3.45 metre long duly painted with white and black bands including fixing M.S. angle of the boards with galvanised nuts and bolts and washers. The Board shall be as per IRC-67-1977 including conveying fixing in ground with C.C. 1:4:8 block of size 0.60 x 0.60 x 0.75 m, with 7 year guarantee for the sheeting etc. complete. <b>Mild Steel Board</b> with Engineering Grade	IRC-67 2012	Number	4380	1283

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
293	Road Furniture	6.41		Providing and fixing <b>road junction/information sign boards of size 1.80 x 0.90 Meter</b> Prepared <b>16 guage M.S. sheet</b> on frame of M.S. angle of size 35 x 35 x 5 mm with cross bracing of size 35x35x5 mm including painting with one coat of zinc cromate stoving primer and two coats each of green/white back ground and back side gray stove enamelled, bonded with red retro reflective sheet Engineering grade, border / letters / numeral /arrows, coated with non pealable crystal clear protective transperent coat retaining 100% reflection including two angle iron post of size 65 x 65 x 6 mm of 3.65 m. long inflated at bottom ,drilled on top and painted in white and black bands of 30 cm. with 4 Nos. high strength G.I. bolts and nuts of size 10 mm dia. and 20 mm long. Sheet and angle iron post in one piece without joints including all taxes, conveying, fixing in ground with cement concrete 1:4:8 block of 60 cm x 60 cm x 75 cm size as directed by Engineer-in-charge etc. complete. Mild Steel Board with Engineering Grade.	IRC-67 2012	Number	14191	1717
294	Road Furniture	6.42		Providing and fixing <b>road junction/ information sign boards of size 1.80 x 0.90 Meter</b> Prepared <b>16 guage Alluminium sheet</b> on frame of size 35 x 35 x 5 mm with cross bracing of size 35x35x5 mm including bonded with IRC Specified colour of retro reflective sheeting of Type IV High Intensity Micro-Prismatic Grade Sheeting (HIP) having pressure sensitive / heat activated adhesive, IRC Specified colour retro reflective cutout border & messages having pressure sensitive adhesive having border & messages in IRC Specified colour background including two angle iron post of size 65 x 65 x 6 mm of 3.65 m. long inflated at bottom drilled on top and painted in white and black bands of 30 cm. with 4 Nos. high strength G.I. bolts and nuts of size 10 mm dia. and 20 mm long sheet and angle iron post in one piece without joints including all taxes, conveying, fixing in ground with cement concrete 1:4:8 block of 60 cm x 60 cm x 75 cm size as directed by Engineer-in- charge etc. complete. Alluminium sheet Type IV High Intensity Micro-Prismatic Grade Sheeting.	IRC-67 2012	Number	14773	1632

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
295	Road Furniture	6.43		Providing and fixing <b>informatory sign boards in rectangular shape of size 1.80m x 0.90m</b> made out of <b>3mm aluminum composite panel bonded</b> with IRC Specified colour of retro reflective sheeting of Type IV High Intensity Micro-Prismatic Grade Sheeting (HIP) having pressure sensitive / heat activated adhesive, IRC Specified colour retro reflective cutout border & messages having pressure sensitive adhesive having border & messages in IRC Specified colour background including M. S. angle iron frame of size 35 mm X 35 mm X 5 mm & two M.S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.65 m long, duly painted with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M-20 concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. Aluminum composite panel with Type IV High Intensity Micro-Prismatic Grade Sheeting.	IRC-67 2012	Number	16072	1525
296	Road Furniture	6.44		Providing and fixing <b>road junction/ information sign boards of size 1.80 x 1.20 Meter Prepared 16 guage M.S.sheet</b> on frame of size 40x40x5 mm with cross bracing of size 35x35 x 5 mm including painting with one coat of zinc cromate stoving primer and two coats each of green/white back ground and back side gray stove enamelled, bonded with red retro reflective sheet Engineering grade, border / letters / numeral /arrows, coated with non pealable crystal clear protective transperent coat retaining 100% reflection includingtwo angle iron post of size 65 x 65 x 6 mm of 3.65 m. long inflated at bottom drilled on top and painted in whiteand black bands of 30 cm. with 4 Nos. high strength G.I. bolts and nuts of size 10 mm dia. and 20 mm long sheet and angle iron post in one piece without joints including all taxes, conveying, fixing in ground with cement concrete 1:4:8 block of 60 cm x 60 cm x 75 cm size as directed by Engineer-in-charge etc. complete. Mild Steel Board with Engineering Grade.	IRC-67 2012	Number	15969	1786

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
297	Road Furniture	6.45		Providing and fixing <b>road junction/ information sign boards of size 1.80 x 1.20 Meter Prepared 16 guage Alluminium sheet</b> on frame of with angle iron frame of size 40x40x5mm with cross bracing of size 35x35x5 mm including Type IV High Intensity Micro-Prismatic Grade Sheeting (HIP) having pressure sensitive / heat activated adhesive, IRC Specified colour retro reflective cutout border & messages having pressure sensitive adhesive having border & messages in IRC Specified colour back ground including two angle iron post of size 65 x 65 x 6 mm of 3.65 m. long inflated at bottom drilled on top and painted in white and black bands of 30 cm. with 4 Nos. high strength G.I. bolts and nuts of size 10 mm dia. and 20 mm long sheet and angle iron post in one piece without joints including all taxes, conveying, fixing in ground with cement concrete 1:4:8 block of 60 cm x 60 cm x 75 cm size as directed by Engineer-in- charge etc. complete. Alluminium sheet Type IV High Intensity Micro-Prismatic Grade Sheeting.	IRC-67 2012	Number	17322	1683
298	Road Furniture	6.46		Providing and fixing <b>informatory sign boards in square or rectangular shape of size 1.80m x1.20m made out of 3mm Aluminum composite panel</b> bonded with IRC Specified colour of retro reflective sheeting of Type IV High Intensity Micro-Prismatic Grade Sheeting (HIP) having pressure sensitive / heat activated adhesive, IRC Specified colour retro reflective cutout border & messages having pressure sensitive adhesive having border & messages in IRC Specified colour background including M. S. angle iron frame of size 35 mm X 35 mm X 5 mm & two M.S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.65 m long, duly painted with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M-20 concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. Aluminum composite panel with Type IV High Intensity Micro-Prismatic Grade Sheeting.	IRC-67 2012	Number	19193	1771

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
299	Road Furniture	6.47		Providing and fixing <b>Road junction / Information sign board of size 0.90 m x 0.60 m. prepared on 16 gauge M.S. sheet</b> with angle iron frame of size 35x35x5 mm including painting with one coat of zinc cromate stoving primer and two coats each of green/ white back ground and back side gray stove enamelled, bonded with red retro reflective sheet Engineering grade, border / letters / numeral / arrows, coated with non pealable crystal clear protective coat retaining 100% reflection including two angle iron post of size 50x50x5 mm of 3.65 m. long inflated at bottom drilled on top and painted in white and black bands of 30 cm. with 4 Nos. high strength G.I. bolts and nuts of size 10 mm dia. and 20 mm long sheet and angle iron post in one piece without joints including all taxes, conveying, fixing in ground with cement concrete 1:4:8 block of 60 cm x 60 cm x 75 cm size as directed by Engineer-in-charge etc. complete. Mild Steel Board with Engineering Grade.	IRC-67 2012	Number	6362	1050
300	Road Furniture	6.48		Providing and fixing <b>informatory sign boards of size 0.90 x 0.60 m made out of 14 guage Aluminum sheet</b> bonded with IRC Specified colour of retro reflective sheeting of Type IV High Intensity Micro-Prismatic Grade Sheeting (HIP) having pressure sensitive / heat activated adhesive, IRC Specified colour retro reflective cutout border & messages having pressure sensitive adhesive having border & messages in IRC Specified colour background including on frame of with angle iron frame of size 35 x 35 x 5 mm and two M.S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.65 m long, duly painted with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in 1:4:8 concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. Alluminium sheet Type IV High Intensity Micro-Prismatic Grade Sheeting	IRC-67 2012	Number	8137	906



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
301	Road Furniture	6.49		Providing and fixing <b>informatory sign boards shape of size 0.90 x 0.60 m made out of 3mm Aluminum composite panel</b> bonded with IRC Specified colour of retro reflective sheeting of Type IV High Intensity Micro-Prismatic Grade Sheeting (HIP) having pressure sensitive / heat activated adhesive, IRC Specified colour retro reflective cutout border & messages having pressure sensitive adhesive having border & messages in IRC Specified colour background including M. S. angle iron frame of size 35 mm X 35 mm X 5 mm & M.S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.65 m long, duly painted with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M-20 concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. Aluminum composite panel with Type IV High Intensity Micro-Prismatic Grade Sheeting. Spec.No. As per IRC-67, 2015	IRC-67 2012	Number	8751	842
302	Road Furniture	6.50		Providing and fixing <b>sign boards of size size 60 x 80 cm made out of 14 gauge M.S.Sheet</b> with retro reflective sheeting of Engineering Grade as per M.O.T. specification No. 801-3(1993) white reflective back ground, lettering symbol bordering of black non reflective paint including 3.65 metre long M.S.angle one post of 65 x 65 x 6 mm size duly painted with white and black bands including fixing the boards of M.S. angle with galvanised nuts and bolts and washer. The Board shall be as per IRC-67-1977 including conveying fixing in ground with C.C. 1:4:8 block of size 0.60 x 0.60 x 0.75 m, with 7 year guarantee for the sheeting etc. complete. Mild Steel Board with Engineering Grade.	IRC-67 2012	Number	5869	812

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
303	Road Furniture	6.51		Providing and fixing <b>informatory sign boards of size 60 cm x 80 cm made out of 14 guage Aluminum sheet</b> bonded with IRC Specified colour of retro reflective sheeting of Type IV High Intensity Micro-Prismatic Grade Sheeting (HIP) having pressure sensitive / heat activated adhesive, IRC Specified colour retro reflective cutout border & messages having pressure sensitive adhesive having border & messages in IRC Specified colour background including M.S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.65 m long, duly painted with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in 1:4:8 concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. Alluminium sheet Type IV High Intensity Micro-Prismatic Grade Sheeting	IRC-67 2012	Number	6325	758
304	Road Furniture	6.52		Providing and fixing <b>informatory sign boards of size 60 cm x 80 cm made out of 3mm Aluminum composite panel</b> bonded with IRC Specified colour of retro reflective sheeting of Type IV High Intensity Micro-Prismatic Grade Sheeting (HIP) having pressure sensitive / heat activated adhesive, IRC Specified colour retro reflective cutout border & messages having pressure sensitive adhesive having border & messages in IRC Specified colour background including M. S. angle iron frame of size 35 mm X 35 mm X 5 mm & M.S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.65 m long, duly painted with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M-20 concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. Aluminum composite panel with Type IV High Intensity Micro-Prismatic Grade Sheeting.	IRC-67 2012	Number	6722	663

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
305	Road Furniture	6.53		Providing and fixing <b>N.H./ S.H. Route Marker size 60 cm x 45 cm</b> with one No. direction plate of size 30 cm x 25 cm prepared on <b>16 gauge M.S. sheet</b> including painting with one coat of zinc cromate stoving primer and two coats each of white and green back ground and back side gray stove enamelled, bonded with cut out of red Retro reflective sheet Engineering grade, border / letters / numerals and arrow, coated with non pealable crystal clear protective transparent coat retaining 100% reflection including one number of M.S. Angle iron post of size 50 x 50 x 5 mm of 3.65 m. long inflated at bottom drilled on top in one piece without joint painted with white and black bands of 30 cm. fixing board and post with 4 Nos. of high strength G.I. bolts and nuts of size 10 mm dia. and 20 mm long including all taxes, conveying, fixing in ground with cement concrete 1:4:8 block of 60 cm x 60 cm x 75 cm size as directed by Engineer-in-charge etc. complete. Mild Steel Route Marker with Engineering Grade	IRC-67 2012	Number	3308	689

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
306	Road Furniture	6.54		Providing and fixing <b>N.H./ S.H. Route Marker size 60 cm x 45 cm</b> with one No. direction plate of size 30 cm x 25 cm prepared on <b>16 guage Aluminium sheet</b> including Type IV High Intensity Micro-Prismatic Grade Sheeting (HIP) having pressure sensitive / heat activated adhesive, IRC Specified colour retro reflective cutout border & messages having pressure sensitive adhesive having border & messages in IRC Specified colour background, including one number of M.S. Angle iron post of size 50 x 50 x 5 mm of 3.65 m. long inflated at bottom drilled on top in one piece without joint painted with white and black bands of 30 cm. fixing board and post with 4 Nos. of high strength G.I. bolts and nuts of size 10 mm dia. and 20 mm long including all taxes, conveying, fixing in ground with cement concrete 1:4:8 block of 60 cm x 60 cm x 75 cm size as directed by Engineer-in-charge etc. complete. Alluminium sheet Type IV High Intensity Micro-Prismatic Grade Sheeting	IRC-67 2012	Number	3589	689

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
307	Road Furniture	6.55		Providing and fixing <b>Road junction / Information sign board of size 1.20 m x 0.90 m. prepared on 16 gauge M.S. sheet</b> with angle iron frame of size 35 x 35 x 5 mm with cross bracing of size 35 x 35 x 5 mm including painting with one coat of zinc cromate stoving primer and two coats each of green/white back ground and back side gray stove enamelled, bonded with red retro reflective sheet Engineering grade, border / letters / numeral /arrows, coated with non pealable crystal clear protective transperent coat retaining 100% reflection includingtwo angle iron post of size 65 x 65x 6 mm of 3.65 m. long inflated at bottom drilled on top and painted in whiteand black bands of 30 cm. with 4 Nos. high strength G.I. bolts and nuts of size 10 mm dia. and 20 mm long sheet and angle iron post in one piece without joints including all taxes, conveying, fixing in ground with M-20 cement concrete of 60 cm x 60 cm x 75 cm size as directed by Engineer-in- charge etc. complete. Mild Steel sheet with Engineering grade.	IRC-67 2012	Number	11849	1350

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
308	Road Furniture	6.56		Providing and fixing <b>informatory sign boards in rectangular shape of size 1.20m x 0.90m made out of 16 guage Aluminum panel</b> bonded with IRC Specified colour of retro reflective sheeting of Type IV High Intensity Micro-Prismatic Grade Sheeting (HIP) having pressure sensitive / heat activated adhesive, IRC Specified colour retro reflective cutout border & messages having pressure sensitive adhesive having border & messages in IRC Specified colour background including M. S. angle iron frame of size 35 mm X 35 mm X 3 mm & two M.S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.65 m long, duly painted with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M-20 concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. Aluminum Panel Type IV High Intensity.	IRC-67 2012	Number	11325	1350
309	Road Furniture	6.57		Providing and fixing <b>informatory sign boards in rectangular shape of size 1.20m x 0.90m made out of 3mm Aluminum composite panel</b> bonded with IRC Specified colour of retro reflective sheeting of Type IV High Intensity Micro-Prismatic Grade Sheeting (HIP) having pressure sensitive / heat activated adhesive, IRC Specified colour retro reflective cutout border & messages having pressure sensitive adhesive having border & messages in IRC Specified colour background including M. S. angle iron frame of size 35 mm X 35 mm X 3 mm & two M.S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.65 m long, duly painted with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M-20 concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. Aluminum composite panel Type IV High Intensity.	IRC-67 2012	Number	12706	1350

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
310	Road Furniture	6.58		Providing and fixing <b>informatory sign boards in square or rectangular shape</b> of any size for <b>overhead gantries</b> or alike made out of <b>3mm aluminum composite panel</b> bonded with IRC Specified colour of retro reflective sheeting of Type XI Diamond Grade Sheeting (DG3) With ECF( Electronic Cuttable Film) Lettring having pressure sensitive / heat activated adhesive, IRC Specified colour retro reflective cutout border & messages having pressure sensitive adhesive having border & messages in IRC Specified colour background including M. S. angle iron frame and bracing of size 35 mm X 35 mm X 5 mm and duly painted with flat oil paint including G.I. fixtures etc. and fixing the boards. (The work to be executed with prior approval of Superintending Engineer.)	IRC-67 2012	Number	42020	3750

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
311	Road Miscellaneous items	7.01	MORTH 408	Providing and casting in situ or precast tapering <b>R.C.C. M-20 Barrier type Kerb without gutter</b> ( as per IRC 86 1983) embedded 125mm below ground level over M-10 PCC finished neatly with C.M. 1:2, setting the same in C.M. 1:2, including the required excavation in any strata and removing the excavated stuff any where in city and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant	MORTH 408	Running Metre	431	136
312	Road Miscellaneous items	7.02	MORTH 408	Providing and casting in situ or precast tapering <b>R.C.C. M-20 Semi Barrier type Kerb without gutter</b> ( as per IRC 86 1983) embedded 125mm below ground level over M-10 PCC finished neatly with C.M. 1:2, setting the same in C.M. 1:2, including the required excavation in any strata and removing the excavated stuff any where in city and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant	MORTH 408	Running Metre	400	131
313	Road Miscellaneous items	7.03	MORTH 408	Providing and casting in situ or precast tapering <b>R.C.C. M-20 Mountable type Kerb without gutter</b> ( as per IRC 86 1983) embedded 125mm below ground level over M-10 PCC finished neatly with C.M. 1:2, setting the same in C.M. 1:2, including the required excavation in any strata and removing the excavated stuff any where in city and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant	MORTH 408	Running Metre	373	127
314	Road Miscellaneous items	7.04	MORTH 408	Providing and casting in situ or precast tapering <b>R.C.C. M-20 Barrier type Kerb with gutter</b> ( as per IRC 86 1983) embedded 125mm below ground level over M-10 PCC finished neatly with C.M. 1:2, setting the same in C.M. 1:2, including the required excavation in any strata and removing the excavated stuff any where in city and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant	MORTH 408	Running Metre	750	170



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
315	Road Miscellaneous items	7.05	MORTH 408	Providing and casting in situ or precast tapering <b>R.C.C. M-20 Semi Barrier type Kerb with gutter</b> ( as per IRC 86 1983) embedded 125mm below ground level over M-10 PCC finished neatly with C.M. 1:2, setting the same in C.M. 1:2, including the required excavation in any strata and removing the excavated stuff any where in city and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant	MORTH 408	Running Metre	661	151
316	Road Miscellaneous items	7.06	MORTH 408	Providing and casting in situ or precast tapering <b>R.C.C. M-20 Mountable type Kerb with gutter</b> ( as per IRC 86 1983) embedded 125mm below ground level over M-10 PCC finished neatly with C.M. 1:2, setting the same in C.M. 1:2, including the required excavation in any strata and removing the excavated stuff any where in city and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant	MORTH 408	Running Metre	596	139
317	Road Miscellaneous items	7.07	As directed by Engineer Incharge	Providing and fixing in position <b>Guard Railing</b> as per Drg. No. 15 Type C dt. 20-4-79, with 3 rows of <b>50mm dia.</b> G.I. pipe 30cm a part and fixed in <b>M.S. channels of section 125 x 65 x 6 mm</b> spaced 2.5 C/c 1:2:4 c.c. bedding of size 45 x 30cm. as per detailed drawing, with 3 coats of approved yellow and black paint including necessary excavation in any strata.	RD	Running Metre	2528	135
318	Road Miscellaneous items	7.08	As directed by Engineer Incharge	Providing and fixing in position <b>Guard Railing</b> as per Drg. No. 15 Type C dt. 20-4-79, with 3 rows of <b>40mm dia.</b> G.I. pipe 30cm a part and fixed in <b>M.S. channels of section 100 x 50 x 6 mm</b> spaced 2.5 C/c 1:2:4 c.c. bedding of size 45 x 30 x 30cm. as per detailed drawing, with 3 coats of approved of yellow and black paint including necessary excavation in any strata.	RD	Running Metre	1825	111
319	Road Miscellaneous items	7.09	As directed by Engineer Incharge	Providing and fixing <b>Guard Railing of 1000mm height</b> as per Type D Drg. No. 15 dt. 20-4-79, and <b>fixed in 40 x 40 x 6mm iron</b> , angle embedded in 1:2:4 cement concrete bedding patti as per detailed drawing, with 3 coats of approved of yellow and black paint.	RD	Running Metre	1919	144

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
320	Road Miscellaneous items	7.10	As directed by Engineer Incharge	Providing and fixing <b>Guard Railing of 1000 mm height in 25mm M.S. square bars 100 mm C/c.</b> as per Type drawing No. 6 dt. 20-8- 85 and fixed in 50mm x 50mm x 6mm iron angle embedded in 1:2:4 C.C. bedding 55 x 45 cm and 50 x 6 iron patti as per detailed drawing with 3 coats of approved yellow and black paint.	RD	Running Metre	2383	196
321	Road Miscellaneous items	7.11	MORTH	<b>Design of overlay for existing B.T. surface</b> with carrying out testing by Benkelman Beam method as per guide lines in IRC 81:1997 including design and testing at site. The charges for transportation of Benkelman Beam, loaded truck, labour for testing and traffic control are not included.	IRC-81	Kilometre	6378	447
322	Road Miscellaneous items	7.12	MORTH	<b>Carrying out roughness index / road unevenness test</b> with car mounted / jeep towed ARUR machine (Automatic road unevenness Recorder) Calibrated from C.R.R.I. New Delhi (Central Road Research Institute) or any other equivalent authority including taking observations, feeding data and giving computerized test result including hire charges of all machinery and labour completed. <b>i) Road surface single lane (B.TW,B.M.) 3.75 m Width.</b>	As Directed by Engineer In Charge	Kilometre	578	NA
323	Road Miscellaneous items	7.13	MORTH	<b>Carrying out roughness index / road unevenness test</b> with car mounted / jeep towed ARUR machine (Automatic road unevenness Recorder) Calibrated from C.R.R.I. New Delhi (Central Road Research Institute) or any other equivalent authority including taking observations, feeding data and giving computerized test result including hire charges of all machinery and labour completed. <b>i) Road surface single lane (B.TW,B.M.) 5.5 m to 7.00 m. Width.</b>	As Directed by Engineer In Charge	Kilometre	1148	NA
324	Road Miscellaneous items	7.14	MORTH	<b>Carrying out roughness index / road unevenness test</b> with car mounted / jeep towed ARUR machine (Automatic road unevenness Recorder) Calibrated from C.R.R.I. New Delhi (Central Road Research Institute) or any other equivalent authority including taking observations, feeding data and giving computerized test result including hire charges of all machinery and labour completed. <b>i) Road surface single lane (B.TW,B.M.) Each additional lane Width.</b>	As Directed by Engineer In Charge	Kilometre	574	43

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
325	Road Miscellaneous items	7.15	MORTH	Dead Journey charges for <b>Transportation of machine/ vehical for Carrying out roughness index / road unevenness test</b> with car mounted / jeep towed ARUR machine (Automatic road unevenness Recorder) Calibrated from C.R.R.I. New Delhi (Central Road Research Institute) or any other equivalent authority including taking observations, feeding data and giving computerized test result including hire charges of all machinery and labour completed. Spec. No. : As directed by Engineer in charge.	As Directed by Engineer In Charge	Kilometre	14	1
326	Road Miscellaneous items	7.16	MORTH 702	Providing and laying a woven <b>Polypropylene Geotextile of Type-I</b> manufactured from black UV stabilised Polypropylene Tape yarn on the prepared subgrade as the separator cum reinforcement with necessary overlap as per drawing. <b>( For use this item SE/CE permission is obligatory.)</b>	MORTH 702	Square Metre	150	64
327	Road Miscellaneous items	7.17	MORTH 702	Providing and laying a woven <b>Polypropylene Geotextile of Type-II</b> manufactured from black UV stabilised Polypropylene Tape yarn on the prepared subgrade as the separator cum reinforcement with necessary overlap as per drawing. <b>( For use this item SE/CE permission is obligatory.)</b>	MORTH 702	Square Metre	150	64
328	Road Miscellaneous items	7.18	MORTH 702	Providing and laying a woven <b>Polypropylene Geotextile of Type-III</b> manufactured from black UV stabilised Polypropylene Tape yarn on the prepared subgrade as the separator cum reinforcement with necessary overlap as per drawing. <b>( For use this item SE/CE permission is obligatory.)</b>	MORTH 702	Square Metre	150	64
329	Road Miscellaneous items	7.19	MORTH 702	Providing and laying a <b>fibre glass geogrid of Tensile strength 50 kN/m</b> manufactured from high quality glass fibre strands and coated with a polymer modified bitumen as reinforcement to Asphalt overlay flexible pavements and Asphalt over distressed rigid P.C.C.	MORTH 702	Square Metre	136	64
330	Road Miscellaneous items	7.20	MORTH 702	Providing and laying a <b>fibre glass geogrid of Tensile strength 100 kN/m</b> manufactured from high quality glass fibre strands and coated with a polymer modified bitumen as reinforcement to Asphalt overlay flexible pavements and Asphalt over distressed rigid P.C.C.	MORTH 702	Square Metre	205	82

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
331	Road Miscellaneous items	7.21	As directed by Engineer Incharge	Providing and Constructing <b>gabion structure 1 Meter high</b> or required section made up of soft mechanically woven hexagonal shaped G.I. wire confirming to IS 16014:2012 having zinc plus PVC coating of overall diameter of 3.7 mm and tying lacing wire of 3.2 mm with edge wire confirming to overall diameter 4.4 mm edges being mechanically selvedge including placing in position, fitting neatly with trap stone rubble (15 to 23 cm) all loose ends to be securely tied (Excluding transportation) etc. complete. ( In Dry condition and for under water installation extra cost to be considered)	MORTH 2503	Cubic Metre	2825	491
332	Road Miscellaneous items	7.22	As directed by Engineer Incharge	Providing and Constructing <b>gabion structure 0.50 Meter high</b> or required section made up of soft mechanically woven hexagonal shaped G.I. wire confirming to IS 16014:2012 having zinc plus PVC coating of overall diameter of 3.7 mm and tying lacing wire of 3.2 mm with edge wire confirming to overall diameter 4.4 mm edges being mechanically selvedge including placing in position, fitting neatly with trap stone rubble (15 to 23 cm) all loose ends to be securely tied (Excluding transportation) etc. complete.( In Dry condition and for under water installation extra cost to be considered)	MORTH 2503	Cubic Metre	2823	581
333	Road Miscellaneous items	7.23	MORTH 702	Providing and laying <b>Needle Punched and mechanically bonded non woven Geotextile of Type III</b> indigenously manufactured from high quality Propylene staple fibers (continuous filament will not be accepted) on the prepared subgrade for Seperation.( <b>For use this item SE/CE permission is obligatory.</b> )	MORTH 702	Square Metre	147	61
334	Road Miscellaneous items	7.24	MORTH 703	Providing and laying <b>Needle Punched and mechanically bonded non woven Geotextile of Type II</b> indigenously manufactured from high quality Propylene staple fibers (continuous filament will not be accepted) on the prepared subgrade for Seperation.( <b>For use this item SE/CE permission is obligatory.</b> )	MORTH 702	Square Metre	147	61

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
335	Road Miscellaneous items	7.25	MORTH 202	<b>Removal of telephone / Electric poles</b> including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and up to a lead of 1000 metres and stacking the serviceable and unserviceable material separately	MORTH 202	Number	298	278
336	Road Miscellaneous items	7.29	MORTH 409	<b>Footpaths and Separators</b> -- Construction of footpath/separator by providing a 150 mm compacted granular sub base as per clause 401 and 25 mm thick cement concrete grade M15, over laid with pre-cast concrete tiles in cement mortar 1:3 including provision of all drainage arrangements but excluding kerb channel.	MORTH 409	Square Metre	790	71
337	Road Miscellaneous items	7.30	MORTH 810	<b>Metal Beam Crash Barrier -- Type - A, W</b> : Metal Beam Crash Barrier (Providing and erecting a W metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per clause 810)""	MORTH 810	Running Metre	3238	210
338	Road Miscellaneous items	7.31	MORTH 810	<b>Metal Beam Crash Barrier -- Type - B, THRIE</b> : Metal Beam Crash Barrier (Providing and erecting a Thrie metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 2 m high with 1.15 m below ground level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm, 546 mm long complete as per clause 810)""	MORTH 810	Running Metre	4753	210

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
339	Road Miscellaneous items	7.32	MORTH 811	<b>Flexible Crash Barrier, Wire Rope Safety Barrier</b> (Providing and erecting a wire rope safety barrier with vertical posts of medium weight RS Joist (ISMB series) 100 mm x 75 mm (11.50 kg/m), 1.50 m long 0.85 m above ground and 0.65 m below ground level, split at the bottom for better grip, embedded in M 15 grade cement concrete 450 x 450 x 450 mm, 1.50 m center to center and with 4 horizontal steel wire rope 40 mm dia and anchored at terminal posts 15 m apart. Terminal post to be embedded in M 15 grade cement concrete foundation 2400 x 450 x 900 mm (depth), strengthened by a strut of RS joist 100 x 75 mm, 2 m long at 450 inclination and a tie 100 x 8 mm, 1.50 m long at the bottom, all embedded in foundation concrete as per approved design and drawing, rate excluding excavation and cement concrete.)	MORTH 811	Running Metre	1968	126
340	Road Miscellaneous items	7.33	MORTH 811	<b>Anti - Glare Screen with 25 mm steel pipe framework</b> fixed with circular and rectangular vans (Providing and erecting an anti - glare screen with 25 mm dia vertical pipes fabricated and framed in the form of panels of one metre length and 1.75 mtr height fixed with circular vane 250 mm dia at top and rectangular vane 600 x 300 mm at the middle, made out of steel sheet of 3 mm thickness, end vertical pipes of the panel made larger for embedding in foundation concrete, applying 2 coats of paint on all exposed surfaces, all as per approved design and drawings.)	MORTH 811	Running Metre	1494	62
341	Road Miscellaneous items	7.34	MORTH 811	<b>Anti - Glare Screen with Rectangular Vane of MS sheet</b> (Providing and erecting anti - glare screen with rectangular vanes of size 750 x 500 mm made from MS sheet, 3 mm thick and fixed on MS angle 50 x 50 x 6 mm at an angle of 450 to the direction of flow of traffic, 1.5 m center to center, top edge of the screen 1.75 m above ground level, vertical post firmly embedded in cement concrete foundation 0.60 m below ground level, applying 2 coats of paint on exposed faces, all complete as per approved design and drawings)	MORTH 811	Running Metre	888	84

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
342	Road Miscellaneous items	7.35	MORTH 809	Providing <b>Reinforced cement concrete crash barrier</b> at the edges of the road, approaches to bridge structures and medians, constructed with <b>R.C.C. M 20 Grade</b> concrete with HYSD reinforcement conforming to IRC:21 and dowel bars 25 mm dia, 450 mm long at expansion joints filled with pre-moulded asphalt filler board, keyed to the structure on which it is built and installed as per design given in the enclosure to MOST circular No. RW/NH - 33022/1/94-DO III dated 24 June 1994 as per dimensions in the approved drawing and at locations directed by the Engineer, all as specified etc. complete. Spec: MORT and H 2013 CI 811 Page No 360	MORTH 809	Running Metre	2948	95
343	Road Miscellaneous items	7.36	MORTH 809	Providing <b>Reinforced cement concrete crash barrier</b> at the edges of the road, approaches to bridge structures and medians, constructed with <b>R.C.C. M 25 Grade</b> concrete with HYSD reinforcement conforming to IRC:21 and dowel bars 25 mm dia, 450 mm long at expansion joints filled with pre-moulded asphalt filler board, keyed to the structure on which it is built and installed as per design given in the enclosure to MOST circular No. RW/NH - 33022/1/94-DO III dated 24 June 1994 as per dimensions in the approved drawing and at locations directed by the Engineer, all as specified etc. complete. Spec: MORT and H 2013 CI 811 Page No 360	MORTH 809	Running Metre	3070	95
344	Road Miscellaneous items	7.37	MORTH 809	<b>Providing Reinforced cement concrete crash barrier</b> at the edges of the road, approaches to bridge structures and medians, constructed with <b>R.C.C. M 30 Grade</b> concrete with HYSD reinforcement conforming to IRC:21 and dowel bars 25 mm dia, 450 mm long at expansion joints filled with pre-moulded asphalt filler board, keyed to the structure on which it is built and installed as per design given in the enclosure to MOST circular No. RW/NH - 33022/1/94-DO III dated 24 June 1994 as per dimensions in the approved drawing and at locations directed by the Engineer, all as specified etc. complete. Spec: MORT and H 2013 CI 811 Page No 360	MORTH 809	Running Metre	3086	95

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
345	Road Maintenance	8.01	RD	<b>Labour for filling pot holes with premix asphalt</b> chips, cleaning the road surface with wire brushes and gunny bags, applying tack coat, spreading mixture hand ramming or light compaction with power roller conveying material to the site of work (excluding cost and of material fuel and heating asphalt) etc complete.	As Directed by Engineer In Charge	Square Metre	58	57
346	Road Maintenance	8.02	RD	<b>Labour for metal patch repairs</b> including preparing surface, adding required quantity of metal, murum, watering, ramming etc complete. Spec.No.: As directed by Engineer- in-charge. (excluding cost and of material )	As Directed by Engineer In Charge	Square Metre	75	50
347	Road Maintenance	8.03	MORTH 3002	<b>Restoration of rain cuts</b> with soil, murum gravel or a mixture of these, clearing the loose soil, benching for 300mm width laying fresh material in layers not exceeding 250 mm and compaction with plate compactor or power rammer to restore the original alignment, level and slopes as per drawings and MORTH specification clause 3002	MORTH 3002	Cubic Metre	152	103
348	Road Maintenance	8.04	MORTH 3003	<b>Making up loss of material/irregularities on shoulders</b> to the design level by adding fresh approved selected soil and compacting it with appropriate equipment at OMC as per MORTH specification clause 3003	MORTH 3003	Square Metre	41	13
349	Road Maintenance	8.05	MORTH 3003	<b>Stripping excess soil from the shoulder surface</b> to achieve the approved level and compacting with plate compactor at OMC as per drawings as per MORTH specification clause 3003	MORTH 3003	Square Metre	17	13
350	Road Maintenance	8.06	MORTH 3004.2	<b>Repair to pot holes</b> by removal of failed material, trimming the sides to vertical and levelling the bottom, cleaning the same with compressed air or any appropriate method filled <b>with 75mm B.M, applying bitumen tack coat</b> at the bottom and vertical sides as per as per MORTH specification clause 3004.1 and 3004.2	MORTH 3004.2	Cubic Metre	6514	110
351	Road Maintenance	8.07	RD	<b>Patch repair</b> on already filled pot holes with <b>20 mm premix carpet and seal coat</b> as per MORTH specification clause 3004.1 and 3004.2	As Directed by Engineer In Charge	Square Metre	226	7
352	Road Maintenance	8.08	MORTH 3004.2	<b>Repair to pot holes</b> and removal of loose material, trimming of sides, cleaning of surface by providing tack coat, 20 mm thick pre-mix carpet and seal coat as per MORTH specification clause 3004.1 and 3004.2	MORTH 3004.2	Square Metre	307	48



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
353	Road Maintenance	8.09	RD	<b>Maintenance of gravel road</b> including making up the loss of profile, rectifying corrugated surface, filling up of depressions, pot holes and erosion gullies by adding fresh material and compacting it with appropriate equipment or to strip excess of material from the road surface as per drawings etc complete	As Directed by Engineer In Charge	Square Metre	86	14
354	Road Maintenance	8.10	RD	Providing <b>pick and roll surface by picking the old WBM surface</b> to the required standard, adding 30% of 40mm size metal and required quantity of murum including laying sectioning, watering, compacting with static roller with thin layer of murum blindage on carrageway, watering and compacting by static roller, including cost of all materials, loading, unloading, stacking and labour etc. complete. Spec.No. : As directed by Engineer- in-charge.	As Directed by Engineer In Charge	Square Metre	89	11
355	Road Maintenance	8.11	RD	<b>Maintenance of WBM road</b> including filling up of pot holes, ruts and rectifying corrugated surface, damaged edges and ravelling etc. complete	As Directed by Engineer In Charge	Square Metre	193	47
356	Road Maintenance	8.12	RD	The <b>maintenance of drains</b> include erosion, repair, clearing, cleaning, reshaping, regrading, deepening of side drains as well as catch water drains etc. complete	As Directed by Engineer In Charge	Running Metre	14	14
357	Road Maintenance	8.13	RD	<b>Maintenance of Hume pipe Culvert</b> by way of Clearing, Cleaning, Erosion repair, repairs to cracks, parapet wall and protection work as per drawing etc. complete	As Directed by Engineer In Charge	Number	1956	928
358	Road Maintenance	8.14	RD	<b>Maintenance of road signs</b> by way of cleaning and repainting of mandatory / regulatory / cautionary / informatory and place identifications sign board as per drawings etc. complete	As Directed by Engineer In Charge	Kilometre	3968	2497
359	Road Maintenance	8.15	RD	<b>Maintenance of Kilometer stones, and 200 metre</b> by way of refitting of tilted stones repairing with cement mortar, cleaning, repairing and lettering on 200 metre km stone and 5th km stone etc. complete	As Directed by Engineer In Charge	Kilometre	883	604
360	Road Maintenance	8.16	RD	<b>Cutting of branches of trees and shrubs</b> from the road way or with in R.O.W including disposal of wood and leaves to suitable location etc. complete	As Directed by Engineer In Charge	Number	209	149
361	Road Maintenance	8.17	RD	<b>Trimming of grass, shurbs and weeds</b> from the shoulders/berms and disposing off the same to suitable locations etc. complete	As Directed by Engineer In Charge	Square Metre	7	7

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
362	Road Maintenance	8.18	RD	<b>Maintenance of guard stones/ boundry stones/ indicator stones</b> by way of refiting of tilted stones repairing with cement mortar, cleaning, repairing and white washing etc. complete	As Directed by Engineer In Charge	Kilometre	890	379
363	Road Maintenance	8.19	RD	<b>Repair of steel railing</b> to bring it to original shape cleaning and repainting as per drawing etc. complete	As Directed by Engineer In Charge	Running Metre	327	189
364	Road Maintenance	8.20	RD	<b>Repair of RCC railing</b> to bring it to the original shape, cleaning and repainting as per drawings etc. complete	As Directed by Engineer In Charge	Running Metre	555	271
365	Road Maintenance	8.21	RD	<b>Removal of steel railing and refixing of railing</b> to submersible bridges including cleaning and repainting etc complete	As Directed by Engineer In Charge	Running Metre	410	312
366	Road Maintenance	8.22	RD	<b>White washing</b> two coats on <b>parapet walls</b> and white washing and geru lime painting to tree trunks including preparation of surface by cleaning scraping etc. complete	As Directed by Engineer In Charge	Square Metre	19	12
367	Road Maintenance	8.23	RD	<b>Dressing of side shoulder / Scrapping the road side shoulder by Mechanical means ( By JCB /DOUZER)</b> including excavation of raised side shoulders upto 15cm depth including remooving /cutting bushes,grass and dressing shoulder to desired camber and disposing of excavated stuff up to road boundary etc complete. as directed by Engineer In Charge.	As Directed by Engineer In Charge	Square Metre	5	0
368	Road Maintenance	8.24	MORTH	Providing and Laying <b>Pressure Sensitive Technology ( PST ) based Insstapattch ready mix compound</b> for repair potholes, manufactured from aggregates of 4-12 mm, treated with special grade bitumen, Pressure Sensitive Polymer( PSP) and Cross Linking Chemical (CLC) agents etc, technically evaluated for repairs on bitumenous/concrete surfaces, confirming to CRRI and IRC accredited norms for pressure sensitive polymer products for repairs of Potholes on road/ Pavements, havinfg upto 25mm thick insstapattch layer on base of compacted aggregates ( Crusher Brocken ) of 50mm thickness including labours, material, tools and tampering etc complete.	As Directed by Engineer In Charge	Square Metre	913	38

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
369	Road Maintenance	8.25	MORTH 514	Providing, laying and rolling <b>Micro seal surfacing ( 10 mm thick )</b> for preventive maintainance including supplying all materials , preparing the existing road surface , heating bitumen , aggregates , lime in hot mix plant , laying the mix seal surfacing by paver finisher and compaction by power roller etc complete.( Using 60/70 bulk bitumen for mixing and tack coat over black topped surface by using 0.14 Cum per 10 Sqm. of crusher aggregate <b>passing 100 % through 6.30 mm sieve</b> and retained100 % on 0.075 mm size sieve 0.2 Kg / Sqm lime and <b>11.00 kg / 10 Sqm</b> bulk bitumen for fixing and 0.50 kg / Sqm for tack coat ) Spec: As directed by Engineer In Charge and IRC SP 78 - 2008	As Directed by Engineer In Charge	Square Metre	90	16
370	Road Maintenance	8.26	MORTH 514	Providing, laying and rolling <b>Micro seal surfacing ( 10 mm thick )</b> for preventive maintainance including supplying all materials , preparing the existing road surface , heating bitumen , aggregates , lime in hot mix plant , laying the mix seal surfacing by paver finisher and compaction by power roller etc complete.( Using 60/70 bulk bitumen for mixing and tack coat over black topped surface by using 0.14 Cum per 10 Sqm. of crusher aggregate <b>passing 100 % through 9.50 mm sieve</b> and retained100 % on 0.075 mm size sieve 0.2 Kg / Sqm lime and <b>9.50 kg / 10 Sqm</b> bulk bitumen for fixing and 0.50 kg / Sqm for tack coat ) Spec: As directed by Engineer In Charge and IRC SP 78 -2008	As Directed by Engineer In Charge	Square Metre	85	3
371	Road Maintenance	8.27	MORTH 408	<b>Providing and laying shoulder drain of trap rubble</b> of 0.45 x 0.45 meter section at 45 degree angle to the road edge including hand packing, filling voids with sand/shingle of approved quality and ramming etc. complete as desired.	As Directed by Engineer In Charge	Running Metre	265	39

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
372	Road Maintenance	8.28	As Directed by Engineer In Charge	<b>Providing and laying Pressure Sensitive Technology ( PST ) based ready mix compound</b> for repairing potholes, manufactured from aggregates of 4-12mm, treated compound having mix of bituminous antistripping compound, stabilizer, Pressure Sensitive Polymer and water repellent compound like oil soluble polyacid etc. having good consistency for laying, technically evaluated for repairs on bituminous/concrete surface confirming to CRRRI and IRC accredited norms for pressure sensitive polymer products for repairs fo potholes on road/ pavement having upto 25mm thick ready thickness including labours, material, tools and tampering etc. complete. (Undertaking shall be taken from the supplier before starting the work) (For heavy traffic & heavy rain with 1 year guarantee)	RD	Square Metre	1939	

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
373	Road Maintenance	8.29	As Directed by Engineer In Charge	Supply of <b>self watering system Multi Stage Tree guard / Protctor</b> 110 mm dia & total height of 1800 mm made up with HDPE. In tubular section, first stage will be 600mm long & second and forth stage 65% perforated casting in HDPE tubular section of 300mm long each tubular section & third and fifth stage of plain 300mm long each tubular section in 110mm dia. all sections fix with stagewise with leakproof fixing arrangement 2 no tubular rubber section of 75mm dia, 1.5mm thick & length 350 mm (fix on both <b>65% perforated tubular section at top</b> for increase the water holding capacity as per plant height). The specially designed rubber water holding device of size 90mm dia outside & 12mm dia inside of 1.5mm thick as per design fix on 40mm dia. 100mm long pvc pipe separately.(for inserting the plants). 2 nos 40mm dia. treated bamboo of 2.00 mtr. height (buried 150 mm below the bottom of excavated pit & stand with tubular section) 2 nos rubber/pvc ties ( fix at bottom & top of plain tubular section with bamboo) 2 nos 5mm dia. fromate (fixing at bottom o tubular section for deep root irrigation system) 2 nos 600mm long HDPE lateral pipe of 5mm dia. with deep roor irrigation system (insert in the gromate & pit, away form 200 mm from plant roots). 1200 mm long barbed wire of 14 guage (The treeguard is rapping with 1200 mm long barbed wire over third plain tubular section for protection against cattles & other external factors) as per technical specification & manual. ( Cost of Plant & fixing charges will be extra as per approved rates). (Note :- Plant Height should be required above 2.50 m & Dia of stem 25 mm at bottom)	RD	Number	1136	71

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
374	Road Maintenance	8.30	As Directed by Engineer In Charge	Supply of <b>self watering system tree guard</b> in 110 mm dia, 1.80 mt height made up of cotton canvas cloth of polymer pipe of 15 litres water storage capacity stand with 2 nos. 40 mm dia treated bamboo of 2 mt ht. tie with tag at two nos and specially designed dexpandable rubber seal 110 mm dia outer & 25 mm dia. inner dia installed on bottom of pipe, and 0.60 m long HDPE lateral pipe 2 nos 5mm dia to carry the water near root zone connected with gromate fix in treeguard and rapping 1.20m long barbed wire to middle of treeguard for protection agianst cattles and other external factors as per specification. ( cost of plant & fixing charges will be extra as per approved rates). (Note :- Plant height should be required above 2.50 m & Dia of stem 25 mm at bottom )	RD	Number	858	71
375	Road Maintenance	8.31	As Directed by Engineer In Charge	<b>Fixing and Transporting of self watering system tree guard-insertion</b> of sapling in self watering tree guard and capping the bottom with expandable rubber seal. Supporting the bamboo with the help of cable tie. Bamboo to be buried 0.15 mt ht. below of excavated pit. Strengthening the bamboo in pit with adequate measures. Circulating the barbed wire around tree guard at middle ht. from bottom and fixing it. Thr rates excluding the cost of barbed wire, bamboo, expandable seal, tree guard and all other required material. Fixing to be carried out as per manual instruction.	RD	Number	92	92
376	Road Maintenance	8.32	Rd.43.3.1	Providing <b>50 mm thick Full grout</b> bituminous treatment including supplying all materials , preparing the exisisting road surface,applying tack coat @ 0.735 kg / sqm and laying the required thickness of metal layer, heating and spraying bitumen of specified Grade at the rate of 5.00 kg / sqm , spreading chips and laying seal coat of specified Grade of bitumen of 1.70 Kg/sqm and compacting , making the surface good etc. complete ( For only Patch Repair works / For Road work ) (VG-30 bulk bitumen rates are considered to arrive at rates)	As Directed by Engineer In Charge	Square meter	479	97

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
377	Road Maintenance	8.33	Rd.45.3.1	Providing <b>50 mm thick semi grout</b> bituminous treatment including supplying all materials , preparing the exisisting road surface,applying tack coat @ 0.735 kg / sqm and laying the required thickness of metal layer, heating and spraying bitumen of specified Grade at the rate of 2.75 kg / sqm , spreading chips and laying seal coat of specified Grade of bitumen of 1.25 Kg/sqm and compacting , making the surface good etc. complete ( For only Patch Repair works / For Road work ) (VG-30 bulk bitumen rates are considered to arrive at rates)	As Directed by Engineer In Charge	Square meter	384	97
378	Road Maintenance	8.34	MORTH 505	Providing and constructing <b>75 mm. thick Modified Penetration Macadam (MPM)</b> road surface including all materials, preparing the existing road surface, spreading 40 mm. stone layers metal 30% crusher broken metal + 70% Hand broken metal (By breaking Rubble obtained by blasting) , heating and spraying the bitumen of VG-30 grade @ 2 kg / sqm , spreading 12mm.size chips compacting with three wheel static roller having weight 8 to 10 MT. to achive the desired degree of compaction as per Technical Specification Clause 506 etc.complete, including applying tack coat of VG 10 grade bitumen at the rate of 0.30 Kg Sqm. on existing bitumen surface. ( <b>For Repair works only</b> )	As Directed by Engineer In Charge	Square meter	220	4
379	Road Maintenance	8.35	MORTH 505	Providing and constructing <b>50 mm. thick Modified Penetration Macadam (MPM)</b> road surface including all materials, preparing the existing road surface, spreading 40mm. stone layers metal 30% crusher broken metal + 70% Hand broken metal (By breaking Rubble obtained by blasting) , heating and spraying the bitumen of VG-30 @ 1.75 kg / sqm, spreading 12mm.size chips compacting with Static roller having weight 8 to 10 MT. to achive the desired degree of compaction as per Technical Specification Clause 506 etc.complete, including applying tack coat at the rate of 0.30 Kg Sqm.( <b>for repair works only</b> )	As Directed by Engineer In Charge	Square meter	176	3

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				<b>SSR 2019-20 CD WORKS &amp; BRIDGE WORKS</b>				
380	Cross Drainage Works	11.01	CD 1	Providing rubble filling of trap/ granite/ quartzite gneiss stones for foundations including filling voids with sand/grit and compaction etc complete.	CD.1 Page.No. 159	Cubic Meter	1096	355
381	Cross Drainage Works	11.02	CD 3A	Providing and laying in situ / ready mix cement concrete of M-10 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary form work, compacting and curing etc. complete. (with reversible drum type mixer with SCADA with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	CD.-3 Page.No. 160	Cubic Meter	4519	1233
382	Cross Drainage Works	11.04	CD 3B	Providing and laying in situ cement concrete of 1:4:8 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary form work, compacting and curing etc. complete. (with reversible drum type mixer with SCADA with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	CD.3 Page.No. 160	Cubic Meter	4519	1233
383	Cross Drainage Works	11.06	CD 4	Providing rubble stone paving 15cm thick in 1:3 cement mortar over a bedding of 15cm thick cement concrete of 1:4:8 proportion with trap /granite /quartzite /gneiss metal including striking joints and watering etc. complete.	CD.4 Page.No. 160	Square Meter	1831	785
384	Cross Drainage Works	11.07	CD 6	Providing uncoursed rubble trap /quartzite /gneiss stone masonry in cement mortar 1:5 for piers, abutments, wings, returns, head-walls, parapet etc. including bailing out of water, striking joints of the non exposed faces, pointing the exposed faces with cement mortar 1:3, scaffolding, watering to masonry and etc. complete.	CD.6 Page.No. 162	Cubic Meter	4180	1733
385	Cross Drainage Works	11.08	CD 7	Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 450mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete.	CD.7 Page.No. 162	Running Metre	1657	346
386	Cross Drainage Works	11.09	CD 7	Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 600mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete.	CD.7 Page.No. 162	Running Metre	2323	346



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
387	Cross Drainage Works	11.10	CD 7	Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 800mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete.	CD.7 Page.No. 162	Running Metre	3599	346
388	Cross Drainage Works	11.11	CD 7	Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 900mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete.	CD.7 Page.No. 162	Running Metre	4228	346
389	Cross Drainage Works	11.12	CD 7	Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 1000mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete.	CD.7 Page.No. 162	Running Metre	4804	346
390	Cross Drainage Works	11.13	CD 7	Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 1200mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete.	CD.7 Page.No. 162	Running Metre	6731	346
391	Cross Drainage Works	11.14	CD 7	Providing and laying cement concrete pipe of IS 458:2003 NP-3 class of 600mm diameter in proper line, level and slope etc. complete.	CD.7 Page.No. 162	Running Metre	4692	582
392	Cross Drainage Works	11.15	CD 7	Providing and laying cement concrete pipe of IS 458:2003 NP-3 class of 800mm diameter in proper line, level and slope etc. complete.	CD.7 Page.No. 162	Running Metre	6674	582
393	Cross Drainage Works	11.16	CD 7	Providing and laying cement concrete pipe of IS 458:2003 NP-3 class of 900mm diameter in proper line, level and slope etc. complete.	CD.7 Page.No. 162	Running Metre	7347	582
394	Cross Drainage Works	11.17	CD 7	Providing and laying cement concrete pipe of IS 458:2003 NP-3 class of 1000mm diameter in proper line, level and slope etc. complete.	CD.7 Page.No. 162	Running Metre	8144	582

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
395	Cross Drainage Works	11.18	CD 7	Providing and laying cement concrete pipe of IS 458:2003 NP-3 class of 1200mm diameter in proper line, level and slope etc. complete.	CD.7 Page.No. 162	Running Metre	10463	582
396	Cross Drainage Works	11.19	CD 7	Providing and laying cement concrete pipe of IS 458:2003 NP-4 class of 900mm diameter in proper line, level and slope etc. complete.	CD 7 Page 167	Running Metre	7975	582
397	Cross Drainage Works	11.20	CD 7	Providing and laying cement concrete pipe of IS 458:2003 NP-4 class of 1000mm diameter in proper line, level and slope etc. complete.	CD 7 Page 167	Running Metre	9982	582
398	Cross Drainage Works	11.21	CD 7	Providing and laying cement concrete pipe of IS 458:2003 NP-4 class of 1200mm diameter in proper line, level and slope etc. complete.	CD 7 Page 167	Running Metre	11582	582
399	Cross Drainage Works	11.22	CD 8	Providing cast in situ / ready mix block of M10 cement concrete with circular or other shaped opening for waterway including necessary formwork, compaction, finishing and curing etc. complete. (with reversible drum type mixer/ concrete batch mix plant (pan mixer) with SCADA with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ), cement 4.05 bags/cumt)	CD.8 Page.No. 163	Cubic Meter	6445	2534
400	Cross Drainage Works	11.24	CD 27	Providing selected hard murum filling including laying in layers of 15 to 20cm with watering and compacting etc. complete.	CD.14 Page.No. 167	Cubic Meter	502	180
401	Cross Drainage Works	11.25	CD	Providing and laying in situ / ready mix M-20 cement concrete of trap /granite /quartzite /gneiss metal for approach slab / Rigid pavement including compacting, finishing, curing etc. complete. (excluding reinforcement) (with reversible drum type mixer/ concrete batch mix plant (pan mixer) with SCADA with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ), cement 6.40 bags/cumt)	CD.15 Page.No. 168 and B.7. Page No. 38	Cubic Meter	5519	1222

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
402	Cross Drainage Works	11.27	CD 27	Providing and fixing stream lined M-20 grade RCC guard stone including mild steel bar reinforcement etc. complete.	CD.20 Page.No. 169	Number	898	154
403	Cross Drainage Works	11.28	CD	Providing cast in situ / ready mix M10 grade cement concrete for head walls of CD work / retaining walls etc. including necessary form work, compaction, finishing and curing etc. complete. (with reversible drum type mixer/ concrete batch mix plant (pan mixer) with SCADA with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ), cement 4.05 bags/cumt)	CD 8 Page 163	Cubic Meter	6445	2534
404	Cross Drainage Works	11.29	CD	Providing cast in situ / ready mix M20 grade cement concrete for head walls of CD work / retaining walls etc. including necessary form work, compaction, finishing and curing etc. complete. (with reversible drum type mixer/ concrete batch mix plant (pan mixer) with SCADA	CD 8 Page 163	Cubic Meter	7491	2534
405	Cross Drainage Works	11.30	CD	Providing and casting in situ / ready mix PCC M15 grade of trap metal for coping to head walls / parapet including centering, form work, compaction and curing etc. complete. (with reversible drum type mixer/ concrete batch mix plant (pan mixer) with SCADA with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	Bd-E-7	Cubic Meter	6783	2534
406	Cross Drainage Works	11.31	CD	Providing and casting in situ / ready mix PCC M20 grade of trap metal for coping to head walls / parapet including centering, form work, compaction and curing etc. complete. (with reversible drum type mixer/ concrete batch mix plant (pan mixer) with SCADA with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	Bd-E-8	Cubic Meter	7108	2534

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
407	Bridge Foundation and Sub Structure	12.02	BR 3A	Excavation for foundation in earth, soils of all types, sand, gravel, soft murum including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete.	BR.3 Page No. 102	Cubic Metre	181.00	89.00
		a		a) Upto 1.50m lift Normal Rate				
		b		b) 1.50m to 3.00m lift, Add 10%				
		c		c) 3.00m to 4.50m lift, Add 20%				
		d		d) 4.50m to 6.0m lift, Add 30%				
408	Bridge Foundation and Sub Structure	12.04	BR 3B	Excavation for foundation in hard murum including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete.	BR.3 Page No. 102	Cubic Metre	193.00	89.00
		a		a) Upto 1.50m lift Normal Rate				
		b		b) 1.50m to 3.00m lift, Add 10%				
		c		c) 3.00m to 4.50m lift, Add 20%				
		d		d) 4.50m to 6.0m lift, Add 30%				
409	Bridge Foundation and Sub Structure	12.06	BR 3C	Excavation for foundation in hard murum and boulders including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete.	BR.3 Page No. 102	Cubic Metre	229.00	119.00
		a		a) Upto 1.50m lift Normal Rate				
		b		b) 1.50m to 3.00m lift, Add 10%				
		c		c) 3.00m to 4.50m lift, Add 20%				
		d		d) 4.50m to 6.0m lift, Add 30%				
410	Bridge Foundation and Sub Structure	12.08	BR 3D	Excavation for foundation in soft rock including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete.	BR.3 Page No. 102	Cubic Metre	463.00	179.00
		a		a) Upto 1.50m lift Normal Rate				
		b		b) 1.50m to 3.00m lift, Add 10%				
		c		c) 3.00m to 4.50m lift, Add 20%				

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
		d		d) 4.50m to 6.0m lift, Add 30%				
411	Bridge Foundation and Sub Structure	12.09	BR 3E	Excavation for foundation in hard rock by blasting including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete.	BR.3 Page No. 102	Cubic Metre	918.00	280.00
		a		a) Upto 1.50m lift Normal Rate				
		b		b) 1.50m to 3.00m lift, Add 10%				
		c		c) 3.00m to 4.50m lift, Add 20%				
		d		d) 4.50m to 6.0m lift, Add 30%				
412	Bridge Foundation and Sub Structure	12.10	BR 3E	Excavation for foundation in hard rock by controlled blasting including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete.	BR.3 Page No. 102	Cubic Metre	988.00	307.00
		a		a) Upto 1.50m lift Normal Rate				
		b		b) 1.50m to 3.00m lift, Add 10%				
		c		c) 3.00m to 4.50m lift, Add 20%				
		d		d) 4.50m to 6.0m lift, Add 30%				
413	Bridge Foundation and Sub Structure	12.11	BR 3F	Excavation for foundation in hard rock by chiselling and wedging or line drilling including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete.	BR-3 Page No. 102	Cubic Metre	1416.00	1299.00
		a		a) Upto 1.50m lift Normal Rate				
		b		b) 1.50m to 3.00m lift, Add 10%				
		c		c) 3.00m to 4.50m lift, Add 20%				
		d		d) 4.50m to 6.0m lift, Add 30%				

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
414	Bridge Foundation and Sub Structure	12.12	BR 3G	Excavation for foundation in laterite rock including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete.	BR.3 Page No. 102	Cubic Metre	1394.00	1262.00
		a		a) Upto 1.50m lift Normal Rate				
		b		b) 1.50m to 3.00m lift, Add 10%				
		c		c) 3.00m to 4.50m lift, Add 20%				
		d		d) 4.50m to 6.0m lift, Add 30%				
415	Bridge Foundation and Sub Structure	12.13	BR 3G	Providing and fixing 25mm diameter steel anchor dowel in hard rock including drilling hole of 32 mm diameter up to 0.75 mtrs depth, placing the dowel in position and effectively grouting the hole with CM 1:1 proportion etc. complete.	As directed by Engineer in charge.	Number	1255.00	367.00
416	Bridge Foundation and Sub Structure	12.22	BR 4 B	Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthen bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 3.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary)	BR 4 Page No 104.105	Hour	152.00	109.00
417	Bridge Foundation and Sub Structure	12.23	BR 4 B	Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthen bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 5.0 to 9.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary)	BR 4 Page No 104.105	Hour	174.00	109.00
418	Bridge Foundation and Sub Structure	12.24	BR 4 B	Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthen bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 10.0 to 19.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary)	BR 4 Page No 104.105	Hour	196	109

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
419	Bridge Foundation and Sub Structure	12.25	BR 5A	Providing and laying in situ / ready mix / ready mix M10 cement concrete of trap/ granite/ quartzite/ gneiss metal in foundation including necessary centering, formwork, bailing out water, compacting and curing etc. complete. (with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with natural /artificial sand)	BR.5 Page No. 105 and B.7, Page No. 38	Cubic Metre	4686	1312
420	Bridge Foundation and Sub Structure	12.27	BR 6	Providing uncoursed rubble stone masonry of trap/ granite/ quartzite/ gneiss metal in CM 1:5 for foundation of piers, abutments, wings etc. including bailing out of water, striking joints, scaffolding and watering etc. complete.	BR.6 Page No. 105	Cubic Metre	4064	1708
421	Bridge Foundation and Sub Structure	12.28	BR 8	Providing, fabricating, launching, floating and grounding in position steel curbs for wells with necessary steel bracings and steel cutting edges as shown in the detailed drawings and technical specifications etc. complete.	BR.8 Page No. 108	Metric Tonne	61891	18190
422	Bridge Foundation and Sub Structure	12.29	BR 9A	Providing and laying in situ / ready mix / ready mix CC M10 of trap/ granite/ quartzite/ gneiss metal in the hollow of the steel curbs including compacting by vibrating and curing etc. complete. (with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR.9 Page No. 109 and B.7, Page No.38	Cubic Metre	4721	1347
423	Bridge Foundation and Sub Structure	12.31	BR 10	Providing, fabricating and setting out MS cutting edge for RCC well curbs as per detailed drawings and technical specifications etc. complete.	BR.10 Page No. 110	Metric Tonne	54244	9393
424	Bridge Foundation and Sub Structure	12.32	BR 13A	Providing and laying in situ / ready mix / ready mix M20 RCC work with trap/ granite/ quartzite/ gneiss metal in well steining including shuttering, compacting by vibrating, finishing and curing etc. complete. (fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ), excluding reinforcement)	BR.13 Page No. 112 and B. 7, Page No.38	Cubic Metre	5233	1035

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
425	Bridge Foundation and Sub Structure	12.34	BR 13A	Providing and laying in situ / ready mix / ready mix M25 RCC work with trap/ granite/ quartzite/ gneiss metal in well steining including shuttering, compacting by vibrating, finishing and curing etc. complete. (fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ), excluding reinforcement)	BR.13 Page No. 112 and B. 7, Page No.38	Cubic Metre	5394	1035
426	Bridge Foundation and Sub Structure	12.36	BR	Providing and laying in situ / ready mix / ready mix M20 RCC work with trap/ granite/ quartzite/ gneiss metal in well steining including shuttering, compacting by vibrating, finishing and curing etc. complete. (fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ), excluding reinforcement)	BR.13 Page No. 112 and B. 7, Page No.38	Cubic Metre	5559	1035
427	Bridge Foundation and Sub Structure	12.38	BR	Providing and laying in situ / ready mix / ready mix M25 RCC work with trap/ granite/ quartzite/ gneiss metal in well steining including shuttering, compacting by vibrating, finishing and curing etc. complete. (fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ), excluding reinforcement)	BR.13 Page No. 112 and B. 7, Page No.38	Cubic Metre	5521	1035
428	Bridge Foundation and Sub Structure	12.40	BR 14	Sinking of wells upto 5.0 metres diameter for foundation through all strata (except rock) to be removed by grabbing and chiselling soft disintegrated rock including blasting, large scale dewatering, heavy chiselling, cutting by pneumatic tools, all materials available to sink through such strata including removal of obstacle and use of necessary plant and machinery, divers etc. and proper seating of the wells etc. complete. (depth 0 to 5 metre) i) Add 30% extra for depth 5 to 10 m ii) Add 40% extra for depth 10 to 15 m iii) Add 60% extra for depth 15 to 20 m iv) Add 100% extra for depth above 20 m	BR.14 Page No. 113	Running Metre	61446	7291



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
429	Bridge Foundation and Sub Structure	12.41	BR 14	Sinking of wells above 5.0 metres and upto 6.0 metres diameter for foundation through all strata (except rock) to be removed by grabbing and chiselling soft disintegrated rock including blasting, large scale dewatering, heavy chiselling, cutting by pneumatic tools, all materials available to sink through such strata including removal of obstacle and use of necessary plant and machinery, divers etc. and proper seating of the wells etc. complete. (depth 0 to 5 metre) i) Add 30% extra for depth 5 to 10 m ii) Add 40% extra for depth 10 to 15 m iii) Add 60% extra for depth 15 to 20 m iv) Add 100% extra for depth above 20 m	BR.14 Page No. 113	Running Metre	103619	12296
430	Bridge Foundation and Sub Structure	12.42	BR 14	Sinking of wells above 6.0 metres and upto 7.0 metres diameter for foundation through all strata (except rock) to be removed by grabbing and chiselling soft disintegrated rock including blasting, large scale dewatering, heavy chiselling, cutting by pneumatic tools, all materials available to sink through such strata including removal of obstacle and use of necessary plant and machinery, divers etc. and proper seating of the wells etc. complete. (depth 0 to 5 metre) i) Add 30% extra for depth 5 to 10 m ii) Add 40% extra for depth 10 to 15 m iii) Add 60% extra for depth 15 to 20 m iv) Add 100% extra for depth above 20 m	BR.14 Page No. 113	Running Metre	141256	16762

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
431	Bridge Foundation and Sub Structure	12.43	BR 14	Sinking of wells above 7.0 metres and upto 8.0 metres diameter for foundation through all strata (except rock) to be removed by grabbing and chiselling soft disintegrated rock including blasting, large scale dewatering, heavy chiselling, cutting by pneumatic tools, all materials available to sink through such strata including removal of obstacle and use of necessary plant and machinery, divers etc. and proper seating of the wells etc. complete. (depth 0 to 5 metre) i) Add 30% extra for depth 5 to 10 m ii) Add 40% extra for depth 10 to 15 m iii) Add 60% extra for depth 15 to 20 m iv) Add 100% extra for depth above 20 m	BR.14 Page No. 113	Running Metre	183971	21830
432	Bridge Foundation and Sub Structure	12.44	BR 14	Sinking of wells above 8.0 metres and upto 9.0 metres diameter for foundation through all strata (except rock) to be removed by grabbing and chiselling soft disintegrated rock including blasting, large scale dewatering, heavy chiselling, cutting by pneumatic tools, all materials available to sink through such strata including removal of obstacle and use of necessary plant and machinery, divers etc. and proper seating of the wells etc. complete. (depth 0 to 5 metre) i) Add 30% extra for depth 5 to 10 m ii) Add 40% extra for depth 10 to 15 m iii) Add 60% extra for depth 15 to 20 m iv) Add 100% extra for depth above 20 m	BR.14 Page No. 113	Running Metre	237244	28152

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
433	Bridge Foundation and Sub Structure	12.45	BR 14	Sinking of wells above 9.0 metres and upto 10.0 metres diameter for foundation through all strata (except rock) to be removed by grabbing and chiselling soft disintegrated rock including blasting, large scale dewatering, heavy chiselling, cutting by pneumatic tools, all materials available to sink through such strata including removal of obstacle and use of necessary plant and machinery, divers etc. and proper seating of the wells etc. complete. (depth 0 to 5 metre) i) Add 30% extra for depth 5 to 10 m ii) Add 40% extra for depth 10 to 15 m iii) Add 60% extra for depth 15 to 20 m iv) Add 100% extra for depth above 20 m	BR.14 Page No. 113	Running Metre	310334	36825
434	Bridge Foundation and Sub Structure	12.46	BR 14	Extra charges for sinking of various diameter of well foundation in hard rock encountered during sinking by chiselling in water etc. complete.	BR. 14A Page No. 113	Cubic Metre	2250	2064
435	Bridge Foundation and Sub Structure	12.47	BR 16	Providing steel anchor dowel bars of 32 mm diameter and 4 m length at the base of the well including drilling holes of 60 mm diameter up to 2.5 m depth in rock, placing the dowels in position and effectively grouting the holes with CM 1:1 etc. complete.	BR.16 Page No. 120	Number	6237	1085
436	Bridge Foundation and Sub Structure	12.48	BR 16A	Providing steel anchor dowel bars of 32 mm diameter and 4 m length through steining of the wells including provision of necessary ducts through staining, drilling holes of 60 mm diameter up to 2.5 m depth in rock, placing the dowels in position and effectively grouting the holes with CM 1:1 etc. complete.	BR. 16 Page No. 120	Number	6565	1356
437	Bridge Foundation and Sub Structure	12.49	BR 17A	Providing and laying in situ / ready mix / ready mix M15 CC of trap/ granite /quartzite /gneiss metal for the bottom plugs of wells in the dry condition including compaction and curing wherever necessary etc. complete. (with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR.17 Page No. 120 and B. 7, Page No.38	Cubic Metre	5434	1405

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
438	Bridge Foundation and Sub Structure	12.51	BR 17B	Providing and laying in situ / ready mix M15 CC of trap/ granite /quartzite /gneiss metal for the bottom plugs of wells under water including compaction and curing wherever necessary etc. complete. (with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR.17 Page No. 120 and B. 7, Page No.38	Cubic Metre	5911	1800
439	Bridge Foundation and Sub Structure	12.55	BR 59 a	Providing and laying in situ / ready mix controlled grade of M15 of trap /granite /quartzite /gneiss metal for RCC works in cut off walls / curtain walls including necessary scaffolding, centering, compacting by vibrator, finishing and curing etc. complete. (with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with natural /artificial sand, excluding reinforcement)	As directed by Engineer in charge.	Cubic Metre	5158	1099
440	Bridge Foundation and Sub Structure	12.57	BR 59 a	Providing and laying in situ / ready mix controlled grade of M20 of trap /granite /quartzite /gneiss metal for RCC works in cut off walls / curtain walls including necessary scaffolding, centering, compacting by vibrator, finishing and curing etc. complete. (with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ), excluding reinforcement)	As directed by Engineer in charge.	Cubic Metre	5673	1099
441	Bridge Foundation and Sub Structure	12.59	BR 59 a	Providing and laying in situ / ready mix controlled grade of M25 of trap /granite /quartzite /gneiss metal for RCC works in cut off walls / curtain walls including necessary scaffolding, centering, compacting by vibrator, finishing and curing etc. complete. (with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ), excluding reinforcement)	As directed by Engineer in charge.	Cubic Metre	5815	1099

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Bridge Foundation and Sub Structure	12.67	BR	Providing and Constructing Temporary Island 16 m diameter for Construction of Well Foundation for 8m dia. Well. Note:- For other well diameters rate can be worked out on the basis of cross-sectional area of well. The diameter of the island shall be in the conformity with clause 1203.2 of MoRTH				
442		a		For depth of water 1.0 m and height of island to be 1.25 m.	BR.7. P.No. 107	Number	67700	9209
443		b		For depth of water 4.0 m and height of island 4.5 m.	BR.7. P.No. 107	Number	312014	72038
	Bridge Foundation and Sub Structure	12.68	BR	Providing and Constructing Temporary Island 12 m diameter for Construction of Well Foundation for 6 m dia. Well. Note:- For other well diameters rate can be worked out on the basis of cross-sectional area of well. The diameter of the island shall be in the conformity with clause 1203.2 of MoRTH				
444		a		For depth of water 1.0 m and height of island to be 1.25 m.	BR.7. P.No. 107	Number	39299	5180
445		b		For depth of water 4.0 m and height of island 4.5 m.	BR.7. P.No. 107	Number	193881	49013
446	Bridge : Bored Pile	12.70	MORTH	Back filling behind abutment, wing wall and return wall as per drawings and technical specifications etc. complete. (by granular material)	MORT and H 2200 &-710.1.4 of iRC 78	Cubic Metre	728	89
447	Bridge : Bored Pile	12.71	MORTH	Back filling behind abutment, wing wall and return wall as per drawings and technical specifications etc. complete. (by sandy material)	MORT and H 2200 &-710.1.4 of iRC 78	Cubic Metre	1449	89

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
448	Bridge : Bored Pile	12.72	MORTH	Providing and laying of filter media with granular materials/ stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2 of MoRTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition as per drawing and technical specifications etc. complete.	MORT and H 2200 &-710.1.4 of IRC 78	Cubic Metre	1100	118

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
449	Bridge Bearings	13.01	BR 34A	Providing and fixing neoprene bearing as per detailed drawings etc. complete.	As directed by Engineer in charge.	Cubic Centimetre	1.93	0.38
450	Bridge Bearings	13.02	BR	Providing tar paper bearing including laying in proper position etc. complete.	As directed by Engineer in charge	Square Metre	81	27
451	Bridge Bearings	13.04	MORTH	Supplying, fitting and fixing in position true to line and level cast steel rocker bearing conforming to IRC:83 (Pt-1) section IX and clause 2003 of MoRTH specifications including all accessories as per drawings and technical specifications etc. complete.	MORT and H - 2000,1000,2200 & IRC 83-1982	Metric Tonne	295	3
452	Bridge Bearings	13.05	MORTH	Supplying, fitting and fixing in position true to line and level forged steel rocker bearing including all accessories as per drawings and technical specifications conforming to IRC:83 (Pt-1) section IX and clause 2003 of MoRTH specifications etc. complete.	MORT and H 2000 and 2200	Metric Tonne	295	3
453	Bridge Bearings	13.06	MORTH	Supplying, fitting and fixing in position true to line and level sliding plate bearing with PTFE surface sliding on stainless steel including all accessories as per drawings and technical specifications and BS:5400, section 9.1 and 9.2 and clause 2004 of MoRTH specifications etc. complete.	MORT and H 2000 and 2200	Metric Tonne	271	9
454	Bridge Bearings	13.07	MORTH	Supplying, fitting and fixing in position true to line and level elastomeric bearing including all accessories as per drawing and technical specifications and IRC:83 (Pt-II) section IX and clause 2005 of MoRTH specifications etc. complete.	MORT and H 2000 and 2200	Cubic Centimetre	1.17	0.04
455	Bridge Bearings	13.08	MORTH	Supplying, fitting and fixing in position true to line and level sliding plate bearing with stainless steel plate sliding on stainless steel plate with mild steel matrix including all accessories as per drawings and technical specifications etc. complete.	MORT and H 2000 and 2200	Metric Tonne	269	7

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
456	Bridge Bearings	13.09	MORTH	Supplying, fitting and fixing in position true to line and level POT- PTFE bearing consisting of a metal piston supported by a disc or unreinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel / fabricated structural steel, metal and elastomer elements to be as per IRC: 83 part I and II respectively and other parts conforming to BS:5400, section 9.1 and 9.2 and clause 2006 of MoRTH specifications as per drawing and approved technical specifications etc. complete.	MORT and H 2000 and 2200	Metric Tonne	200	4



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
457	Bridge Super Structure	14.01	BR 35A	Providing, cutting, bending, hooking, tying and laying in position TMT FE 500 steel bars for reinforcement for all RCC works as per detailed drawings etc. complete.	BR.35 Page No. 134	Metric Tonne	62581	9322
458	Bridge Super Structure	14.02	BR 35B a	Providing and joining 25 mm diameter MS / TMT FE 500 steel reinforcement bars by bottle nuts including supplying and fitting them in position etc. complete.	As directed by Engineer in charge	Number	1016	610
459	Bridge Super Structure	14.03	BR 35B b	Providing and joining 32 mm diameter MS /TMT FE 500 steel reinforcement bars by bottle nuts including supplying and fitting them in position etc. complete.	As directed by Engineer in charge.	Number	1201	610
460	Bridge Super Structure	14.04	BR 36A	Providing welded joints for 25 mm and below diameter bars for steel reinforcement etc. complete.	BR.36 Page No. 134	Number	344	258
461	Bridge Super Structure	14.05	BR 36B	Providing welded joints for 32 mm and below diameter bars for steel reinforcement etc. complete.	BR.36 Page No. 134	Number	351	258
462	Bridge Super Structure	14.06	BR	Providing and fixing in position to the exact profile and prestressing the high tensile strands to specified ultimate strength, standard end anchorages, cable ducts, grouting ducts after prestressing and bearing plates with wedges as per detailed drawings including necessary plant and machinery for prestressing etc. complete.	As directed by Engineer in charge.	Metric Tonne	156488	7591
463	Bridge Super Structure	14.07	BR 38A	Providing and laying in situ / ready mix M-20 controlled cement concrete of trap/ granite/ quartzite/ gneiss metal for RCC work in solid/ deck slab etc. including ramming, vibrating, curing, formwork, centering and finishing in cement plaster excluding reinforcement etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer and fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) i) Height up to 5 m, normal rate. ii) Height 5 to 7.50 m, add 5 percent extra over basic rate. iii) Height 7.50 to 10 m, 7.50 percent extra. iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.	BR.38(a) Page No. 135 and B. 7, Page No.38	Cubic Metre	7083	2534

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
464	Bridge Super Structure	14.15	BR	<p>Providing and laying in situ / ready mix M-25 controlled cement concrete of trap/ granite/ quartzite/ gneiss metal for RCC work in solid/ deck slab etc. including ramming, vibrating, curing, formwork, centering and finishing in cement plaster excluding reinforcement etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer and fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )</p> <p>i) Height up to 5 m, normal rate.  ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.  iii) Height 7.50 to 10 m, 7.50 percent extra.  iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.</p>	BR.38(b and c) Page No. 135 and B. 7, Page No.38	Cubic Metre	7552	2534
465	Bridge Super Structure	14.17	BR	<p>Providing and laying in situ / ready mix M-30 controlled cement concrete of trap/ granite/ quartzite/ gneiss metal for RCC work in solid/ deck slab etc. including ramming, vibrating, curing, formwork, centering and finishing in cement plaster excluding reinforcement etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer and fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )</p> <p>i) Height up to 5 m, normal rate.  ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.  iii) Height 7.50 to 10 m, 7.50 percent extra.  iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.</p>	BR.38(a) Page No. 135 and B. 7, Page No.38	Cubic Metre	7617	2534

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
466	Bridge Super Structure	14.19	BR 38A	<p>Providing and laying in situ / ready mix M-20 controlled cement concrete of trap/ granite/ quartzite/ gneiss metal for RCC work in main/ cross girders, diaphragms etc. including ramming, vibrating, curing, formwork, centering and finishing in cement plaster excluding reinforcement etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer and fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )</p> <p>i) Height up to 5 m, normal rate.  ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.  iii) Height 7.50 to 10 m, 7.50 percent extra.  iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.</p>	BR.38(b and c) Page No. 135 and B. 7, Page No.38	Cubic Metre	7083	2534
467	Bridge Super Structure	14.27	BR	<p>Providing and laying in situ / ready mix M-25 controlled cement concrete of trap/ granite/ quartzite/ gneiss metal for RCC work in main/ cross girders, diaphragms etc. including ramming, vibrating, curing, formwork, centering and finishing in cement plaster excluding reinforcement etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer and fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )</p> <p>i) Height up to 5 m, normal rate.  ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.  iii) Height 7.50 to 10 m, 7.50 percent extra.  iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.</p>	BR.38(b and c) Page No. 135 and B. 7, Page No.38	Cubic Metre	7552	2534

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
468	Bridge Super Structure	14.29	BR	Providing and laying in situ / ready mix M-30 controlled cement concrete of trap/ granite/ quartzite/ gneiss metal for RCC work in main/ cross girders, diaphragms etc. including ramming, vibrating, curing, formwork, centering and finishing in cement plaster excluding reinforcement etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer and fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) i) Height up to 5 m, normal rate. ii) Height 5 to 7.50 m, add 5 percent extra over basic rate. iii) Height 7.50 to 10 m, 7.50 percent extra. iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.	BR.38(b and c) Page No. 135 and B. 7, Page No.38	Cubic Metre	7617	2534
469	Bridge Super Structure	14.31	MORTH C1-2604	Providing and laying buried type expansion joint (expansion gap being 20mm) covered with 12mm thick 200 mm wide galvanised weldable structural steel plate as per IS 2062 placed symmetrically to the centre line of the joint, resting freely over the top surface of the deck concrete, welding of 8mm diameter 100mm long galvanised nails spaced 300mm intervals along the centre line of the plate, all as specified in MoRTH clause 2604 etc. complete.	BR.43 Page No. 138	Cubic Metre	756	170
470	Bridge Super Structure	14.32	BR 43A	Providing copper plate expansion joints as per detailed drawing No. 4/D-1 of 1972 D type etc. complete.	BR.43 Page No. 138	Running Metre	3816	170
471	Bridge Super Structure	14.33	BR 43B	Providing expansion joints with 25mm thick bituminous pad as per detailed drawings etc. complete.	BR.43 Page No. 138	Square Metre	845	103
472	Bridge Super Structure	14.34	BR 45	Providing and laying in situ / ready mix 1:4:8 cement concrete of trap /granite /quartzite /gneiss metal for haunch filling including compacting, curing, mixing etc. complete. (with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	B R.45 Page No. 139	Cubic Metre	4107	841

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
473	Bridge Super Structure	14.36	BR 46	Providing trap/ granite/ quartzite/ gneiss rubble filling over haunches and arches including hand packing etc. complete.	BR.46 Page No. 140	Cubic Metre	692	99
474	Bridge Super Structure	14.39	BR	Providing and laying in situ / ready mix M20 CC of trap/ granite/ quartzite/ gneiss metal for wearing course 8cm thick including compacting, finishing, curing and filling in joints with bitumen etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR.47(a) Page No. 140 and B. 7, Page No.38	Cubic Metre	5239	927
475	Bridge Super Structure	14.41	BR 48	Providing vent holes 100mm diameter GI pipe in the slab and wearing course with iron grill at the top and GI pipe at bottom as per drawing etc. complete.	BR.48 Page No. 142	Number	535	49
476	Bridge Super Structure	14.44	BR	Providing and laying in situ / ready mix M20 RCC of trap/ granite/ quartzite/ gneiss metal for RCC work of ballast walls, kerbs and box returns including scaffolding, compaction, formwork finishing and curing etc. complete. (excluding reinforcement, with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR.50 Page No. 143 and B. 7, Page No.38	Cubic Metre	7360	2493
477	Bridge Super Structure	14.47	BR	Providing RCC parapet with CC M20 of trap/ granite/ quartzite/ gneiss metal with cast in situ/precast panels as per the detailed drawing including reinforcement, scaffolding, centering, formwork, compacting, finishing and curing etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer) fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR.51 (a) Page No. 144 and B. 7, Page No.38	Running Metre	1528	752

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
478	Bridge Super Structure	14.48	BR 51B	Providing railing of mild steel angle post 2.0m center to center of section 75mm x 75mm x 10mm or equivalent I/C section of height 1.05 above bridge surface with minimum anchor length of 30cm including hold fast of 25mm diameter MS bar welded at the bottom and concreting of 1:3:6 of size 30cm x 30cm x 30cm with three rows of 40mm B class GI pipe provided at 30cm on center to center including scaffolding and one coat of anticorrosive paint with two coats of oil painting, curing of concrete etc. complete.	B.R.51(b) Page No. 145	Running Metre	2838	30
479	Bridge Super Structure	14.49	BR 51C	Providing RCC railing of cast in situ / ready mix RCC posts with M20 CC of trap/ granite/ quartzite/ gneiss metal for horizontal and vertical members as per detailed drawings including reinforcement, scaffolding, centering, formwork, compaction, finishing and curing with watering chemical compound etc. complete. (fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR.51(c) Page No. 145 and B. 7, Page No.38	Running Metre	1646	239
480	Bridge Super Structure	14.50	BR 55	Providing 100mm diameter GI water spouts as per detailed drawings in RCC slab and wearing surface / kerb etc. complete.	BR.55 Page No. 150	Number	868	247
481	Bridge Super Structure	14.55	MORTH	Providing and laying 6 mm thick mastic asphalt wearing course on top of deck slab excluding prime coat with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface including providing antiskid surface with bitumen precoated fine grained hard stone chipping of 4.75 mm nominal size at the rate of 0.005 cum per 10 Sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces not less than 100 deg C, protruding 1 mm to 4mm over mastic surface as per clause 515 etc. complete.	MORTH and H 500, 2700	Square Metre	283	88

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
482	Bridge Super Structure	14.56	MORTH	Construction of precast RCC railing of M30 Grade, aggregate size not exceeding 12 mm, true to line and grade, tolerance of vertical RCC post not to exceed 1 in 500, centre to centre spacing between vertical post not to exceed 2000 mm, leaving adequate space between vertical post for expansion as per approved drawings and technical specifications etc. complete.	MORT and H 2700, 1500, 1600 and 1700	Running Metre	1567	172
483	Bridge Super Structure	14.57	MORTH	Construction of RCC railing of M30 Grade in situ / ready mix with 20 mm nominal size aggregate true to line and grade, tolerance of vertical RCC post not to exceed 1 in 500, center to center spacing between vertical post not to exceed 2000 mm, leaving adequate space between vertical post for expansion, complete with fully automatic micro processor PLC with SCADA enabled reversible drum type mixer/ concrete batch mix plant (pan mixer) as per approved drawings and technical specifications etc. complete with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	MORT and H 2700, 1500, 1600 and 1700	Running Metre	1567	172
484	Bridge Super Structure	14.58	MORTH	Providing and laying in PCC M15 grade leveling course below approach slab complete with fully automatic micro processor PLC with SCADA enabled reversible drum type mixer/ concrete batch mix plant (pan mixer) as per drawings and Technical specifications etc. complete with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	MORT and H 1700 and 2700	Cubic Metre	4729	742
485	Bridge Super Structure	14.59	MORTH	Providing and laying of RCC in M30 grade approach slab including reinforcement and formwork complete with fully automatic micro processor PLC with SCADA enabled reversible drum type mixer/ concrete batch mix plant (pan mixer) as per drawings and technical specifications etc. complete with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	MORT and H 1500, 1600, 1700 and 2700	Cubic Metre	8427	1032
486	Bridge Super Structure	14.60	MORTH	Providing, transporting and placing in position precast pretensioned concrete girders as per drawings and technical specifications etc. complete.	MORT and H 1800, 2300	Cubic Metre	20218	3562

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
487	Bridge Super Structure	14.61	MORTH	Providing and applying two coat of water based cement paint to un plastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence etc. complete. (applying 1 litre paint on 2 sqmt)	MORT and H 2800,	Square Metre	186	27
488	Bridge Super Structure	14.62	MORTH	Providing and laying a burried expansion joint, expansion gap being 20 mm, covered with 12 mm thick, 200 mm wide galvanized weldable structural steel plate as per IS: 2062, placed symmetrical to center line of the joint, resting freely over the top surface of the deck concrete, welding of 8 mm diameter 100 mm long galvanised nails spaced 300 mm c/c along the center line of the plate, all as specified in clause 2604 etc. complete.	MORT and H 2600	Running Metre	1797	26
489	Bridge Super Structure	14.63	MORTH	Providing and filling 20 mm thick compressible fibre board in expansion joint complete as per drawings and technical specifications etc. complete.	MORT and H 2600	Running Metre	343	9
490	Bridge Super Structure	14.64	MORTH	Providing and filling joint sealing compound with coarse sand and 6% bitumen by weight as per drawings and technical specifications etc. complete.	MORT and H 2600	Running Metre	36	26
491	Bridge Super Structure	14.65	MORTH	Providing and laying of asphaltic plug joint to provide for horizontal movement of 25 mm and vertical movement of 2 mm, depth of joint varying from 75 mm to 100 mm, width varying from 500 mm to 750 mm in traffic direction covered with a closure plate of 200 mm X 6 mm of weldable structural steel conforming to IS:2062, asphaltic plug to consist of polymer modified bitumen binder, carefully selected single size aggregate to 12.5mm nominal size and a heat resistant foam caulking /backer rod all as per approved drawings and specifications etc. complete.	MORT and H 2600	Running Metre	1341	57
492	Bridge Super Structure	14.66	MORTH	Providing and laying of an elastomeric slab steel expansion joint, catering to right or skew in less than 20 degree, moderately curved with maximum horizontal movement upto 50 mm to be installed by the manufacture / supplier or their authorized representative ensuring compliance to the manufactures instructions for installation for road and bridge works as per approved drawings and standard specifications etc. complete.	MORT and H 2600	Running Metre	11882	79



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
493	Bridge Super Structure	14.67	MORTH	Providing and laying of compression seal joint consisting of steel armoured nosing at two edges of the joint gap suitably anchored to the deck concrete and a preformed chloroprene elastomer or closed cell foam joint sealer compressed and fixed into the joint gap with special adhesive binder to cater for a horizontal movement upto 40 mm and vertical movement of 3 mm etc. complete.	MORT and H ? 2600	Running Metre	4344	47
494	Bridge Super Structure	14.68	MORTH	Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70 mm to be installed by the manufacturer / supplier to their authorized representative ensuring compliance to the manufacturers instruction for installation as per approved drawings and standard specifications etc. complete.	MORT and H ? 2600	Running Metre	12160	65
495	Bridge Super Structure	14.69	MORTH	Providing and laying boulders apron on river bed for protection against scour with stone boulders weighing not less than 40 kg each complete as per drawings and Technical specifications etc. complete. (boulder laid without wire crates)	MORT and H-2500	Cubic Metre	1407	702
496	Bridge Super Structure	14.70	MORTH	Providing and laying of boulder apron laid in wire crates made with 4 mm dia GI wire conforming to IS:2801 and IS:4828 in 100 mm X 100 mm mesh weaved diagonally including 10% extra for laps and joints laid with stone boulder weighing not less than 40 kg each etc. complete.	MORT and H-2500	Cubic Metre	2203	504
497	Bridge Super Structure	14.71	MORTH	Providing and laying of apron with cement concrete blocks of size 0.50X0.50X0.50m cast in situ / ready mix and made with nominal mix of M15 grade cement concrete with a minimum cement content of 250kg/cum with fully automatic micro processor PLC with SCADA enabled reversible drum type mixer/ concrete batch mix plant (pan mixer) as per IRC:21-2000 etc. complete.	MORT and H-2500	Cubic Metre	4987	1024
498	Bridge Super Structure	14.72	MORTH	Providing and laying pitching on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and technical specifications etc. complete. (by stone/boulder)	MORT and H-2500	Cubic Metre	1407	702

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
499	Bridge Super Structure	14.73	MORTH	Providing and laying pitching on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete with fully automatic micro processor PLC with SCADA enabled reversible drum type mixer/ concrete batch mix plant (pan mixer) as per drawings and technical specifications etc. complete. (concrete blocks of size 0.30x 0.30x0.30m in CC M15 grade) with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	MORT and H-2500	Cubic Metre	4861	898
500	Bridge Super Structure	14.74	MORTH	Providing and laying filter material underneath pitching in slopes as per drawings and technical specifications etc. complete.	MORT and H-2500	Cubic Metre	1946	784
501	Bridge Super Structure	14.75	MORTH	Laying of a geotextile filter between pitching and embankment slopes on which pitching is laid to prevent escape of the embankment material through the voids of the stone pitching / cement concrete blocks as well as to allow free movement of water without creating any uplift head on the pitching etc. complete.	MORT and H ? 700 and 1500	Square Metre	216	155
502	Bridge Super Structure	14.76	MORTH	Providing and laying rubble stone flooring laid in cement mortar 1:3 as per drawings and technical specifications etc. complete.	MORT and H 2500	Cubic Metre	5265	1782
503	Bridge Super Structure	14.77	MORTH	Providing and laying cement concrete blocks of M15 grade flooring laid in cement mortar 1:3 as per drawings and technical specifications etc. complete.	MORT and H 2500	Cubic Metre	6132	1329
504	Bridge Super Structure	14.78	MORTH	Construction of dry rubble flooring at cross drainage works etc. complete.	MORT and H 2500	Cubic Metre	2886	2181
505	Bridge Super Structure	14.79	MORTH	Construction of stone masonry curtain wall in cement mortar 1:3 as per drawings and technical specifications etc. complete.	MORT and H 2500	Cubic Metre	4687	2307
506	Bridge Super Structure	14.81	MORTH	Providing flexible apron of 100 cm thick comprising of loose stone boulders weighing not less than 40 kg beyond curtain wall etc. complete.	MORT and H ? 2500	Cubic Metre	1498	792

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
507	Bridge Super Structure	14.82	MORTH	Providing and construction of a gabian structure for retaining earth with segments of wire crates of size 7.0 x 3.0 x 0.6m each divided into 1.5 m compartments by cross netting, made from 4 mm galvanized steel wire @ 32kg per 10 sqm having minimum tensile strength of 300Mpa conforming to IS:280 and galvanizing coating conforming to IS:4826 woven into mesh with double twist, mesh size not exceeding 100x100mm, filled with boulders with least dimension of 200mm, all loose ends to be tied with 4mm galvanized steel wire etc. complete.	MORT and H-2500	Cubic Metre	2198	165
508	Bridge Super Structure	14.83	MORTH	Providing and constructing gabain structures for erosion control, river training works and protection works with wire crates of size 2.0m x 1.0m x 0.30m each divided into 1 m compartments by-cross netting, made from 4 mm galvanized steel wire @ 32 kg per 10sqm having minimum tensile strength of 300Mpa conforming to IS:280 and galvanizing coating conforming to IS 4826, woven into mesh with double twist, mesh size not exceeding 100 x 100mm, filled with boulders with least dimension of 200mm, all loose ends to be securely tied with 4mm galvanized steel wire etc. complete.	MORT and H-2500	Cubic Metre	4079	585
509	Bridge Super Structure	14.84	MORTH	Removal of existing 75mm thick cement concrete wearing coat including its disposal complete as per technical specification without causing any detrimental effect to any part of the bridge structure and removal of dismantled material with all lifts and lead up to 1000m etc. complete.	MORT and H-2800	Square Metre	155	63
510	Bridge Super Structure	14.85	MORTH	Removal of existing asphaltic wearing coat comprising of 50mm thick asphaltic concrete laid over 12 mm thick mastic asphalt including disposal with all lift and lead upto 100m etc. complete.	MORT and H-2800	Square Metre	113	47
511	Bridge Super Structure	14.86	MORTH	Providing and laying cement concrete wearing coat M30 grade with batch mix type / concrete mixer with SCADA including reinforcement as per drawings and technical specifications etc. complete with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	MORT and H ? 2700	Cubic Metre	9785	1357

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
512	Bridge Super Structure	14.87	MORTH	Providing and laying of reinforced cement concrete in M-30 grade approach slab / Rigid Pavement including formwork complete with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) as per drawings and technical specifications etc. complete with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) ( excluding reinforcement )	MORT and H ? 1500, 1600, 1700 and 2700	Cubic Metre	6334	1032
513	Bridge Super Structure	14.88	BR 62	Providing and laying 0.90 meter thick metal mat consisting of rubble, oversize metal and normal size metal in specified thickness as per detailed drawing including supplying all materials, hand packing of rubble, spreading metal in layers and hard murum including watering and compaction with power roller etc. complete.	As directed by Engineer in charge	Square Metre	1085	99
514	Bridge Super Structure New Item	14.89	BR	Providing and laying in situ / ready mix M-35 controlled cement concrete of trap/ granite/ quartzite/ gneiss metal for RCC work in solid/ deck slab etc. including ramming, vibrating, curing, formwork, centering and finishing in cement plaster excluding reinforcement etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer and Natural / VSI standard Artificial Sand) i) Height up to 5 m, normal rate.  ii) Height 5 to 7.50 m, add 5 percent extra over basic rate. iii) Height 7.50 to 10 m, 7.50 percent extra. iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.	BR.38(a) Page No. 135 and B. 7, Page No.38	Cubic Metre	7996	2534

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
515	Bridge Super Structure New Item	14.90	BR	<p>Providing and laying in situ / ready mix M-40 controlled cement concrete of trap/ granite/ quartzite/ gneiss metal for RCC work in solid/ deck slab etc. including ramming, vibrating, curing, formwork, centering and finishing in cement plaster excluding reinforcement etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer and Natural / VSI standard Artificial Sand)</p> <p>i) Height up to 5 m, normal rate.</p> <p>ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.</p> <p>iii) Height 7.50 to 10 m, 7.50 percent extra.</p> <p>iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.</p>	BR.38(a) Page No. 135 and B. 7, Page No.38	Cubic Metre	8138	2534
516	Bridge Super Structure New Item	14.91	BR	<p>Providing and laying in situ / ready mix M-35 controlled cement concrete of trap/ granite/ quartzite/ gneiss metal for RCC work in main/ cross girders, diaphragms etc. including ramming, vibrating, curing, formwork, centering and finishing in cement plaster excluding reinforcement etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer and Natural / VSI standard Artificial Sand)</p> <p>i) Height up to 5 m, normal rate.</p> <p>ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.</p> <p>iii) Height 7.50 to 10 m, 7.50 percent extra.</p> <p>iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.</p>	BR.38(b and c) Page No. 135 and B. 7, Page No.38	Cubic Metre	7996	2534

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
517	Bridge Super Structure New Item	14.92	BR	<p>Providing and laying in situ / ready mix M-40 controlled cement concrete of trap/ granite/ quartzite/ gneiss metal for RCC work in main/ cross girders, diaphragms etc. including ramming, vibrating, curing, formwork, centering and finishing in cement plaster excluding reinforcement etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer and Natural / VSI standard Artificial Sand)</p> <p>i) Height up to 5 m, normal rate.</p> <p>ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.</p> <p>iii) Height 7.50 to 10 m, 7.50 percent extra.</p> <p>iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.</p>	BR.38(b and c) Page No. 135 and B. 7, Page No.38	Cubic Metre	8138	2534

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
518	Bridge : Bored Pile	15.02	BR	Providing and laying cast in situ / ready mix M30 RCC for 450mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	2792	576
519	Bridge : Bored Pile	15.03	MORTH	Excavation for foundation of structure as per drawing and technical specifications including setting out, construction of shoring , brushing, removal of stumps and other deleterious matter, dressing of side and bottom and back filling with approved material etc. complete. (in marshy soil by mechanical means)	M.O.R.T and H - 304	Cubic Metre	708	185
520	Bridge : Bored Pile	15.04	BR	Providing and laying cast in situ / ready mix M30 RCC for 475 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	2932	574
521	Bridge : Bored Pile	15.05	MORTH	Providing and filling annular space around footing in rock by using concrete of M15 grade etc. complete.	M.O.R.T and H - 2100	Cubic Metre	4463	624

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
522	Bridge : Bored Pile	15.06	BR	Providing and laying cast in situ / ready mix M30 RCC for 500 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	3025	577
523	Bridge : Bored Pile	15.07	MORTH	Providing and filling sand in foundation trenches / below Raft as per drawing and technical specifications etc. complete. (Coarse Sand and Gravel )	M.O.R.T and H - 300,2100	Cubic Metre	2363	185
524	Bridge : Bored Pile	15.08	BR	Providing and laying cast in situ / ready mix M30 RCC for 525 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	3235	683
525	Bridge : Bored Pile	15.09	MORTH	Providing stone masonry work in cement mortar 1:3 in foundation with watering complete as per drawings and technical specifications etc. complete. (coursed rubble masonry, first sort)	M.O.R.T and H - 1400	Cubic Metre	4670	2307



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
526	Bridge : Bored Pile	15.10	BR	Providing and laying cast in situ / ready mix M30 RCC for 550mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	3398	741
527	Bridge : Bored Pile	15.11	MORTH	Providing stone masonry work in cement mortar 1:3 in foundation with watering complete as per drawings and technical specifications etc. complete. (random rubble masonry)	M.O.R.T and H - 1400	Cubic Metre	4491	2111
528	Bridge : Bored Pile	15.12	BR	Providing and laying cast in situ / ready mix M30 RCC for 600mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	4737	874
529	Bridge : Bored Pile	15.13	MORTH	Providing and laying PCC in M15 grade levelling course of 100 mm thick below pile cap with fully automatic micro processor PLC with SCADA enabled reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.	M.O.R.T and H - 1100, 1700	Cubic Metre	4193	898

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
530	Bridge : Bored Pile	15.14	BR	Providing and laying cast in situ / ready mix M30 RCC for 625mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	4909	941
531	Bridge : Bored Pile	15.15	MORTH	Providing 1st class brick masonry work in 1:3 in sub structure complete with watering as per drawings and technical specifications etc. complete. (excluding pointing and plastering)	MORT and H ? 1300, 2200	Cubic Metre	5976	1170
532	Bridge : Bored Pile	15.16	BR	Providing and laying cast in situ / ready mix M30 RCC for 650mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	5089	1010

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
533	Bridge : Bored Pile	15.18	BR	Providing and laying cast in situ / ready mix M30 RCC for 750mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	7324	1358
534	Bridge : Bored Pile	15.20	BR	Providing and laying cast in situ / ready mix M30 RCC for 800 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	7782	1531
535	Bridge : Bored Pile	15.58	BR	Providing and laying cast in situ / ready mix M30 RCC for 825 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	7933	1620

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
536	Bridge : Bored Pile	15.60	BR	Providing and laying cast in situ / ready mix M30 RCC for 900 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	8651	1904
537	Bridge : Bored Pile	15.62	BR	Providing and laying cast in situ / ready mix M30 RCC for 975 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	9424	2211
538	Bridge : Bored Pile	15.64	BR	Providing and laying cast in situ / ready mix M30 RCC for 1000 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	12155	2266

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
539	Bridge : Bored Pile	15.66	BR	Providing and laying cast in situ / ready mix M30 RCC for 1050 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	13248	2476
540	Bridge : Bored Pile	15.68	BR	Providing and laying cast in situ / ready mix M30 RCC for 1100 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	14373	2699
541	Bridge : Bored Pile	15.70	BR	Providing and laying cast in situ / ready mix M30 RCC for 1200 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	16990	3222

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
542	Bridge : Bored Pile	15.72	BR	Providing and laying cast in situ / ready mix M30 RCC for 1500 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	26567	5035
543	Bridge : Bored Pile	15.110	BR	Providing and laying cast in situ / ready mix M35 RCC for 450 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	2869	476
544	Bridge : Bored Pile	15.111	BR	Providing and laying cast in situ / ready mix M35 RCC for 475 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	3017	522

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
545	Bridge : Bored Pile	15.112	BR	Providing and laying cast in situ / ready mix M35 RCC for 500 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	3173	570
546	Bridge : Bored Pile	15.113	BR	Providing and laying cast in situ / ready mix M35 RCC for 525 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	3337	620
547	Bridge : Bored Pile	15.114	BR	Providing and laying cast in situ / ready mix M35 RCC for 550 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	3515	674

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
548	Bridge : Bored Pile	15.115	BR	Providing and laying cast in situ / ready mix M35 RCC for 600 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	5036	794
549	Bridge : Bored Pile	15.116	BR	Providing and laying cast in situ / ready mix M35 RCC for 625 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	5234	855
550	Bridge : Bored Pile	15.117	BR	Providing and laying cast in situ / ready mix M35 RCC for 650 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )oncrete batch mix plant / pan mixer etc. complete.	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	5440	918



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
551	Bridge : Bored Pile	15.118	BR	Providing and laying cast in situ / ready mix M35 RCC for 750 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	7808	1235
552	Bridge : Bored Pile	15.119	BR	Providing and laying cast in situ / ready mix M35 RCC for 800 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	8467	1518
553	Bridge : Bored Pile	15.120	BR	Providing and laying cast in situ / ready mix M35 RCC for 825 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	8576	1473

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
554	Bridge : Bored Pile	15.121	BR	Providing and laying cast in situ / ready mix M35 RCC for 900 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	9414	1731
555	Bridge : Bored Pile	15.122	BR	Providing and laying cast in situ / ready mix M35 RCC for 975 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	10321	2010
556	Bridge : Bored Pile	15.123	BR	Providing and laying cast in situ / ready mix M35 RCC for 1000 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	12379	2195

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
557	Bridge : Bored Pile	15.124	BR	Providing and laying cast in situ / ready mix M35 RCC for 1050 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	13947	2398
558	Bridge : Bored Pile	15.125	BR	Providing and laying cast in situ / ready mix M35 RCC for 1100 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	14644	2613
559	Bridge : Bored Pile	15.126	BR	Providing and laying cast in situ / ready mix M35 RCC for 1200 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	17311	3121

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
560	Bridge : Bored Pile	15.127	BR	Providing and laying cast in situ / ready mix M35 RCC for 1500 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	27066	4876
561	Bridge : Bored Pile	15.128	BR	Providing, placing and driving in position 6mm thick permanent MS liner up to required depth with 12 mm thick MS cutting edge of 0.50 meter length of bottom including fabricating, cutting the MS sheet to required diameter and shape, welding the joints and driving with the help of required machineries, all materials, labour and lift etc. complete.	MORTH 4th Revision No.1204 and 1904	Metric Tonne	75547	13925
562	Bridge : Bored Pile New Item	15.129	BR	Providing and laying cast in situ / ready mix M40 RCC for 450 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre) i) Add 30% extra for depth 5 to 10 m ii) Add 40% extra for depth 10 to 15 m iii) Add 60% extra for depth 15 to 20 m iv) Add 100% extra for depth above 20 m	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	2892	476

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
563	Bridge : Bored Pile New Item	15.130	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 475 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	3042	522
564	Bridge : Bored Pile New Item	15.131	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 500 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	3187	570

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
565	Bridge : Bored Pile New Item	15.132	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 525 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	3368	620
566	Bridge : Bored Pile New Item	15.133	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 550 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	3549	674

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
567	Bridge : Bored Pile New Item	15.134	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 600 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	5076	794
568	Bridge : Bored Pile New Item	15.135	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 625 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	5277	855

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
569	Bridge : Bored Pile New Item	15.136	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 650 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sandoncrete batch mix plant / pan mixer etc. complete. (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	5487	918
570	Bridge : Bored Pile New Item	15.137	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 750 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	7870	1235



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
571	Bridge : Bored Pile New Item	15.138	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 800 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	8555	1532
572	Bridge : Bored Pile New Item	15.139	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 825 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	8668	1486

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
573	Bridge : Bored Pile New Item	15.140	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 900 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	9523	1747
574	Bridge : Bored Pile New Item	15.141	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 975 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	10448	2028

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
575	Bridge : Bored Pile New Item	15.142	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 1000 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	12543	2238
576	Bridge : Bored Pile New Item	15.143	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 1050 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	14128	2445

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
577	Bridge : Bored Pile New Item	15.144	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 1100 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	14809	2637
578	Bridge : Bored Pile New Item	15.145	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 1200 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	17507	3150

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
579	Bridge : Bored Pile New Item	15.146	BR	<p>Providing and laying cast in situ / ready mix M40 RCC for 1500 mm diameter bored piles each of load capacity as per design and of specified diameter of as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing concrete by tremie arrangement, compaction of concrete and withdrawal of steel shell with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) etc. complete.with natural sand /VSI quality artifical sand (depth 0 to 5 metre)</p> <p>i) Add 30% extra for depth 5 to 10 m  ii) Add 40% extra for depth 10 to 15 m  iii) Add 60% extra for depth 15 to 20 m  iv) Add 100% extra for depth above 20 m</p>	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	27318	4876

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
580	Bridge Maintenance	16.01	BR	Providing and injecting epoxy grout including structuring of crack in the body of slab girder by sand blasting, fixing inlet tube arrangement including cost of materials, machinery required for the work and labour charges etc. complete.	As directed by Engineer in charge.	Kilogram	1196	142
581	Bridge Maintenance	16.02	BR	Repairing of honey combed or spalling area by chipping out the damaged spalled or honey combed portion of concrete up to rusted rebars, cleaning of all rust, scale and loose materials, scaffolding, compressed air machinery etc. complete. (item includes use of air compressor, chipping machine and scaffolding for height 8 to 10 meter)	As directed by Engineer in charge.	Square Metre	662	51
582	Bridge Maintenance	16.03	BR	Providing and applying well mixed polymer cement slurry in ratio 1:2 over well soaked but surface dry concrete and steel rebar for adhesion of fresh cement and sand mortar as per specification as directed etc. complete. (item includes use of polymers like sikalateX or similar materials of relevant specification and scaffolding for height 8 to 10 meter)	As directed by Engineer in charge.	Square Metre	659	51
583	Bridge Maintenance	16.04	BR	Repairs of expansion joints by removing rich mix cement concrete including stacking the spoil as directed with all leads, lifts etc. complete. (use of equipments like air compressor is considered in the item)	As directed by Engineer in charge.	Square Metre	3029	924
584	Bridge Maintenance	16.07	BR	Providing and laying in situ / ready mix M35 grade RCC jacketing work around the existing piers of bridges etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ), height of 8 to 10 meter)	As directed by Engineer in charge.	Cubic Metre	4444	125
585	Bridge Maintenance	16.09	BR	Providing and injecting epoxy grout including structuring of cracks in the body of slab girder, fixing inlet tube arrangement including cost of materials, machinery required for the work labour charges etc. (2kg of grout is considered per hole)	As directed by Engineer in charge.	Number	2385	283

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
586	Bridge : Bored Pile	17.01	BR	Extra for Chiselling in hard rocks including removing and stacking the loose material and disposing the unserviceable materials as directed etc. complete. 550 mm dia	MORT&H (5th Rev.) 1111	Running Meter	987	987
587	Bridge : Bored Pile	17.02	BR	Extra for Chiselling in hard rocks including removing and stacking the loose material and disposing the unserviceable materials as directed etc. complete. 650 mm dia	MORT&H (5th Rev.) 1111	Running Meter	1314	1314
588	Bridge : Bored Pile	17.03	BR	Extra for Chiselling in hard rocks including removing and stacking the loose material and disposing the unserviceable materials as directed etc. complete. 900mm dia	MORT&H (5th Rev.) 1111	Running Meter	1647	1647
589	Bridge : Bored Pile	17.04	BR	Extra for Chiselling in hard rocks including removing and stacking the loose material and disposing the unserviceable materials as directed etc. complete. 1000 mm dia	MORT&H (5th Rev.) 1111	Running Meter	2597	2597
590	Bridge : Well Foundation	17.05	BR	Providing and Constructing Temporary Island 16 m diameter for Construction of Well Foundation for 8m dia. Well. Note:- For other well diameters rate can be worked out on the basis of cross-sectional area of well. The diameter of the island shall be in the conformity with clause 1203.2 of MoRTH a) For depth of water 1.0 m and height of island to be 1.25 m. (Well Diameter - 8m), ( Island Diameter- 16m)	MORT&H (5th Rev.) 1204	Number	73309	9554
591	Bridge : Well Foundation	17.06	BR	Providing and Constructing Temporary Island 16 m diameter for Construction of Well Foundation for 8m dia. Well. Note:- For other well diameters rate can be worked out on the basis of cross-sectional area of well. The diameter of the island shall be in the conformity with clause 1203.2 of MoRTH b) For depth of water 4.0 m and height of island to be 4.50 m. (Well Diameter - 8m), ( Island Diameter- 16m)	MORT&H (5th Rev.) 1204	Number	361227	72531

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
592	Bridge : Well Foundation	17.07	BR	Sinking of 5 m Dia. well for foundation in hard strata (Hard Rock)/Boulder etc. which can be removed by grabing and chiselling soft disintegrated rock which requires special efforts, including blasting, large scale dewatering, heavy chiselling, cutting by pneumatic tools and all materials available to sink through such strata including removal of obstacles and use of necessary plant and machinery, driver etc and proper setting of wells including all methods except pneumatic sinking (depth 0 to 5 Metres). Note : Add 1)30% Extra for 5 to 10 M depth 2)40% Extra for 10 to 15 M depth 3) 60% Extra for depth 15 M to 20 M 4) 100% Extra for depth above 20 M.	MORT&H (5th Rev.) 1208	Running Meter	54097	9171
593	Bridge : Well Foundation	17.08	BR	Sinking of 6 m Dia. well for foundation in hard strata (Hard Rock)/Boulder etc. which can be removed by grabing and chiselling soft disintegrated rock which requires special efforts, including blasting, large scale dewatering, heavy chiselling, cutting by pneumatic tools and all materials available to sink through such strata including removal of obstacles and use of necessary plant and machinery, driver etc and proper setting of wells including all methods except pneumatic sinking (depth 0 to 5 Metres). Note : Add 1)30% Extra for 5 to 10 M depth 2)40% Extra for 10 to 15 M depth 3) 60% Extra for depth 15 M to 20 M 4) 100% Extra for depth above 20 M.	MORT&H (5th Rev.) 1208	Running Meter	78596	11612



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
594	Bridge : Well Foundation	17.09	BR	Sinking of 7 m Dia. well for foundation in hard strata (Hard Rock)/Boulder etc. which can be removed by grabing and chiselling soft disintegrated rock which requires special efforts, including blasting, large scale dewatering, heavy chiselling, cutting by pneumatic tools and all materials available to sink through such strata including removal of obstacles and use of necessary plant and machinery, driver etc and proper setting of wells including all methods except pneumatic sinking (depth 0 to 5 Metres). Note : Add 1)30% Extra for 5 to 10 M depth 2)40% Extra for 10 to 15 M depth 3) 60% Extra for depth 15 M to 20 M 4) 100% Extra for depth above 20 M.	MORT&H (5th Rev.) 1208	Running Meter	91261	14651
595	Bridge : Well Foundation	17.10	BR	Sinking of 8 m Dia. well for foundation in hard strata (Hard Rock)/Boulder etc. which can be removed by grabing and chiselling soft disintegrated rock which requires special efforts, including blasting, large scale dewatering, heavy chiselling, cutting by pneumatic tools and all materials available to sink through such strata including removal of obstacles and use of necessary plant and machinery, driver etc and proper setting of wells including all methods except pneumatic sinking (depth 0 to 5 Metres). Note : Add 1)30% Extra for 5 to 10 M depth 2)40% Extra for 10 to 15 M depth 3) 60% Extra for depth 15 M to 20 M 4) 100% Extra for depth above 20 M.	MORT&H (5th Rev.) 1208	Running Meter	127398	18230

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
596	Bridge : Well Foundation	17.11	BR	Sinking of 9 m Dia. well for foundation in hard strata (Hard Rock)/Boulder etc. which can be removed by grabbing and chiselling soft disintegrated rock which requires special efforts, including blasting, large scale dewatering, heavy chiselling, cutting by pneumatic tools and all materials available to sink through such strata including removal of obstacles and use of necessary plant and machinery, driver etc and proper setting of wells including all methods except pneumatic sinking (depth 0 to 5 Metres). Note : Add 1)30% Extra for 5 to 10 M depth 2)40% Extra for 10 to 15 M depth 3) 60% Extra for depth 15 M to 20 M 4) 100% Extra for depth above 20 M.	MORT&H (5th Rev.) 1208	Running Meter	137578	20131
597	Bridge : Well Foundation	17.12	BR	Sinking of 10 m Dia. well for foundation in hard strata (Hard Rock)/Boulder etc. which can be removed by grabbing and chiselling soft disintegrated rock which requires special efforts, including blasting, large scale dewatering, heavy chiselling, cutting by pneumatic tools and all materials available to sink through such strata including removal of obstacles and use of necessary plant and machinery, driver etc and proper setting of wells including all methods except pneumatic sinking (depth 0 to 5 Metres). Note : Add 1)30% Extra for 5 to 10 M depth 2)40% Extra for 10 to 15 M depth 3) 60% Extra for depth 15 M to 20 M 4) 100% Extra for depth above 20 M.	MORT&H (5th Rev.) 1208	Running Meter	151765	23336
598	Bridge : Well Foundation	17.13	BR	Providing and constructing one span service road 10m wide to reach island location. For 1 pier location to another pier location ( Depth of standing water 1 m)	MORT&H (5th Rev.) 1200	Running Meter	4391	125

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
599	Bridge : Well Foundation	17.14	BR	Providing and laying in situ / ready mix M-20 cement concrete Trap/ Granite/ Quartzite/ Gneiss metal for R.C.C. well curbs including necessary compacting by vibrating, finishing and curing complete. with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) (excluding reinforcement and including shuttering) A) With Batch Mix Plant With fully automatic micro processor based PLC with SCADA enabled	MORT&H (5th Rev.) 1205	Cubic Meter	5628	1321
600	Bridge : Well Foundation	17.15	BR	Providing and laying in situ / ready mix M-25 cement concrete Trap/ Granite/ Quartzite/ Gneiss metal for R.C.C. well curbs including necessary compacting by vibrating, finishing and curing complete. with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) (excluding reinforcement and including shuttering) A) With Batch Mix Plant With fully automatic micro processor based PLC with SCADA enabled	MORT&H (5th Rev.) 1205	Cubic Meter	5781	1321
601	Bridge : Well Foundation	17.16	BR	Providing and laying in situ / ready mix M-30 cement concrete Trap/ Granite/ Quartzite/ Gneiss metal for R.C.C. well curbs including necessary compacting by vibrating, finishing and curing complete. with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) (excluding reinforcement and including shuttering) A) With Batch Mix Plant With fully automatic micro processor based PLC with SCADA enabled	MORT&H (5th Rev.) 1205	Cubic Meter	5903	1321
602	Bridge : Well Foundation	17.17	BR	Providing and laying in situ / ready mix M-35 cement concrete Trap/ Granite/ Quartzite/ Gneiss metal for R.C.C. well curbs including necessary compacting by vibrating, finishing and curing complete. with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) (excluding reinforcement and including shuttering) A) With Batch Mix Plant With fully automatic micro processor based PLC with SCADA enabled	MORT&H (5th Rev.) 1205	Cubic Meter	5997	1321

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
603	Bridge : Well Foundation	17.18	BR	Providing and laying in situ / ready mix M-20 cement concrete trap / granite / quartzite / gneiss metal for the intermediate plug of wells in the dry or under water including compaction by vibrating and curing wherever necessary etc complete with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) D) INTERMEDIATE PLUG With Batch Mix Plant, With fully automatic micro processor based PLC with SCADA enabled	MORT&H (5th Rev.) 1211	Cubic Meter	5851	1173
604	Bridge : Well Foundation	17.19	BR	Providing and laying in situ / ready mix M-25 cement concrete trap / granite / quartzite / gneiss metal for the intermediate plug of wells in the dry or under water including compaction by vibrating and curing wherever necessary etc complete with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) D) INTERMEDIATE PLUG With Batch Mix Plant, With fully automatic micro processor based PLC with SCADA enabled	MORT&H (5th Rev.) 1211	Cubic Meter	5965	1173
605	Bridge : Well Foundation	17.20	BR	Providing and laying in situ / ready mix M-30 cement concrete trap / granite / quartzite / gneiss metal for the intermediate plug of wells in the dry or under water including compaction by vibrating and curing wherever necessary etc complete with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) D) INTERMEDIATE PLUG With Batch Mix Plant, With fully automatic micro processor based PLC with SCADA enabled	MORT&H (5th Rev.) 1211	Cubic Meter	6314	1296
606	Bridge : Well Foundation	17.21	BR	Providing and laying in situ / ready mix M-25 cement concrete of trap / granite / quartzite/ gneiss metal for top plug of wells including compaction by vibration and curing etc complete centering formwork shall be of steel/plywood B) With Batch Mix Plant With fully automatic micro processor based PLC with SCADA enabled, fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )	MORT&H (5th Rev.) 1209	Cubic Meter	6201	1296

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
607	Bridge : Well Foundation	17.22	BR	Providing and laying in situ / ready mix M-30 cement concrete of trap / granite / quartzite/ gniess metal for top plug of wells including compaction by vibration and curing etc complete centering formwork shall be of steel/plywood B) With Batch Mix Plant With fully automatic micro processor based PLC with SCADA enabled fine agreeegates of required specifications (Natural sand / VSI sand finely washed etc )	MORT&H (5th Rev.) 1209	Cubic Meter	6314	1296
608	Bridge : Well Foundation	17.23	BR	Providing and laying in situ / ready mix M-25 cement concrete of trap / granite / quartzite/ gniess metal for reinforced cement concrete well caps including necessary formwork compaction by vibrating finishing in CM 1:3 with fine agreeegates of required specifications (Natural sand / VSI sand finely washed etc ) etc complete (Excluding reinforcement) A) Well Cap (With with reversible drum type mixer/ concrete batch mix plant (pan mixer) .	MORT&H (5th Rev.) 1700, 2205,2304	Cubic Meter	5711	1181
609	Bridge : Well Foundation	17.24	BR	Providing and laying in situ / ready mix M-30 cement concrete of trap / granite / quartzite/ gniess metal for reinforced cement concrete well caps including necessary formwork compaction by vibrating finishing in CM 1:3 with fine agreeegates of required specifications (Natural sand / VSI sand finely washed etc ) etc complete (Excluding reinforcement) A) Well Cap (With with reversible drum type mixer/ concrete batch mix plant (pan mixer) .	MORT&H (5th Rev.) 1700, 2205,2304	Cubic Meter	5975	1181
610	Bridge : Well Foundation	17.25	BR	Providing and laying in situ / ready mix M-35 cement concrete of trap / granite / quartzite/ gniess metal for reinforced cement concrete well caps including necessary formwork compaction by vibrating finishing in CM 1:3 with fine agreeegates of required specifications (Natural sand / VSI sand finely washed etc ) etc complete (Excluding reinforcement) A) Well Cap (With with reversible drum type mixer/ concrete batch mix plant (pan mixer) .	MORT&H (5th Rev.) 1700, 2205,2304	Cubic Meter	6593	1181
611	Bridge : Well Foundation	17.26	BR	Providing Sump pit in hard strata in wells as diercted or as shown in drawing including shoring and strutting as necessary and disposing of excavted stuff	As directed by Engineer-in Charge	Cubic Meter	3412	2132

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
612	Bridge : Well Foundation	17.27	BR	Providing and filling in well with sand/ rubble and sand/ shingle and sand including compacting between the top and bottom plugs etc. Complete	MORT&H (5th Rev.) 1210	Cubic Meter	1400	197
613	Bridge sub structure and Foundation	17.28	BR	Providing and laying plain in situ / ready mix M-20 cement concrete of trap/ granite/quartzite/gneiss/crushed stone metal mechanically mixed, placed in foundation and compacted by vibration including necessary bailing out water, curing curing concrete batch mix plant / pan mixer with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) (excluding dewatering by pump) for 14 days RCC Grade.With Concrete Mixer	MORT&H (5th Rev.) 1700	Cubic Meter	5994	1407
614	Bridge sub structure and Foundation	17.29	BR	Providing and laying plain in situ / ready mix M-25 cement concrete of trap/ granite/quartzite/gneiss/crushed stone metal mechanically mixed, placed in foundation and compacted by vibration including necessary bailing out water, curing curing concrete batch mix plant / pan mixer with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) (excluding dewatering by pump) for 14 days RCC Grade.With Concrete Mixer	MORT&H (5th Rev.) 1700	Cubic Meter	6122	1395
615	Bridge sub structure and Foundation	17.30	BR	Providing and laying plain in situ / ready mix M-30 cement concrete of trap/ granite/quartzite/gneiss/crushed stone metal mechanically mixed, placed in foundation and compacted by vibration including necessary bailing out water, curing curing concrete batch mix plant / pan mixer with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) (excluding dewatering by pump) for 14 days RCC Grade.With Concrete Mixer	MORT&H (5th Rev.) 1700	Cubic Meter	6393	1425
616	Bridge sub structure and Foundation	17.31	BR	Providing and laying plain in situ / ready mix M-35 cement concrete of trap/ granite/quartzite/gneiss/crushed stone metal mechanically mixed, placed in foundation and compacted by vibration including necessary bailing out water, curing curing concrete batch mix plant / pan mixer with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) (excluding dewatering by pump) for 14 days RCC Grade.With Concrete Mixer	MORT&H (5th Rev.) 1700	Cubic Meter	6418	1405

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
617	Bridge sub structure and Foundation	17.32	BR	Providing and laying in situ / ready mix M-20 controlled reinforced cement concrete of trap metal for raft slab including "V" haunches, formwork, scaffolding, compaction by vibrating, finishing curing etc. complete. concrete batch mix plant / pan mixer with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) etc. complete. (excluding reinforcement). a) RCC Grade with reversible drum type mixer/ concrete batch mix plant (pan mixer) .	MORT&H (5th Rev.) 1700, 2304	Cubic Meter	4815	728
618	Bridge sub structure and Foundation	17.33	BR	Providing and laying in situ / ready mix M-25 controlled reinforced cement concrete of trap metal for raft slab including "V" haunches, formwork, scaffolding, compaction by vibrating, finishing curing etc. complete. concrete batch mix plant / pan mixer with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) etc. complete. (excluding reinforcement). a) RCC Grade with reversible drum type mixer/ concrete batch mix plant (pan mixer) .	MORT&H (5th Rev.) 1700, 2304	Cubic Meter	4942	740
619	Bridge sub structure and Foundation	17.34	BR	Providing and laying in situ / ready mix M-30 controlled reinforced cement concrete of trap metal for raft slab including "V" haunches, formwork, scaffolding, compaction by vibrating, finishing curing etc. complete. concrete batch mix plant / pan mixer with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) etc. complete. (excluding reinforcement). a) RCC Grade with reversible drum type mixer/ concrete batch mix plant (pan mixer) .	MORT&H (5th Rev.) 1700, 2304	Cubic Meter	4993	698
620	Bridge sub structure and Foundation	17.35	BR	Providing and laying in situ / ready mix M-35 controlled reinforced cement concrete of trap metal for raft slab including "V" haunches, formwork, scaffolding, compaction by vibrating, finishing curing etc. complete. concrete batch mix plant / pan mixer with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc ) etc. complete. (excluding reinforcement). a) RCC Grade with reversible drum type mixer/ concrete batch mix plant (pan mixer) .	MORT&H (5th Rev.) 1700, 2304	Cubic Meter	5137	737

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
621	Bridge sub structure and Foundation	17.36	BR	Providing and fixing pressure relief pipes of 110 mm diameter of PVC as per drawing for R.C.C Raft, galleries returns, abutments, wing wall etc complete.	MORT&H (5th Rev.) 2705, 2706	Running Meter	460	66
622	Bridge sub structure and Foundation	17.37	BR	Providing and laying weep holes of 100 mm diameter PVC pipes as per drawing for abutment returns, return walls etc. Complete.	MORT&H (5th Rev.) 2705, 2706	Running Meter	424	57
623	Bridge sub structure and Foundation	17.38	BR	Providing and laying in situ / ready mix M-15 plain cement concrete of trap /granite/quartzite/ gneiss metal for cast in situ piers, abutment, returns, wings etc. including provision of "V" shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete, including plywood/steel form work centering ( excluding dewatering by means of pump) and including bailling out water and curing finishing in CM 1:3 etc. complete. as directed by engineer in charge basic rate shall be increased for height above 5.00 m in followinh manners (a) Height upto 5 M. (With Concrete Mixer)With fine agreegates of required specifications (Natural sand / VSI sand finely washed etc ) i) Height up to 5 m, normal rate. ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.       iii) Height 7.50 to 10 m, 7.50 percent extra. iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.	MORT&H (5th Rev.) 1700, 2204	Cubic Meter	5916	1553



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
624	Bridge sub structure and Foundation	17.39	BR	<p>Providing and laying in situ / ready mix M-20 plain cement concrete of trap /granite/quartzite/ gneiss metal for cast in situ piers, abutment, returns, wings etc. including provision of "V" shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete, including plywood/steel form work centering ( excluding dewatering by means of pump) and including bailing out water and curing finishing in CM 1:3 etc. complete. as directed by engineer in charge basic rate shall be increased for height above 5.00 m in followinh manners</p> <p>(a) Height upto 5 M. (With Concrete Mixer)With fine agreegates of required specifications (Natural sand / VSI sand finely washed etc )</p> <p>i) Height up to 5 m, normal rate.</p> <p>ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.</p> <p>iii) Height 7.50 to 10 m, 7.50 percent extra.</p> <p>iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.</p>	MORT&H (5th Rev.) 1700, 2204	Cubic Meter	6200	1553

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
625	Bridge sub structure and Foundation	17.40		<p>Providing and laying in situ / ready mix M-25 plain cement concrete of trap /granite/quartzite/ gneiss metal for cast in situ piers, abutment, returns, wings etc. including provision of "V" shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete, including plywood/steel form work centering ( excluding dewatering by means of pump) and including bailing out water and curing finishing in CM 1:3 etc. complete. as directed by engineer in charge basic rate shall be increased for height above 5.00 m in followinh manners</p> <p>(a) Height upto 5 M. (With Concrete Mixer)With fine agreegates of required specifications (Natural sand / VSI sand finely washed etc )</p> <p>i) Height up to 5 m, normal rate.</p> <p>ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.</p> <p>iii) Height 7.50 to 10 m, 7.50 percent extra.</p> <p>iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.</p>		Cubic Meter	6371	1553

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
626	Bridge sub structure and Foundation	17.41		<p>Providing and laying in situ / ready mix M-30 plain cement concrete of trap /granite/quartzite/ gneiss metal for cast in situ piers, abutment, returns, wings etc. including provision of "V" shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete, including plywood/steel form work centering ( excluding dewatering by means of pump) and including bailing out water and curing finishing in CM 1:3 etc. complete. as directed by engineer in charge basic rate shall be increased for height above 5.00 m in followinh manners</p> <p>(a) Height upto 5 M. (With Concrete Mixer)With fine agreegates of required specifications (Natural sand / VSI sand finely washed etc )</p> <p>i) Height up to 5 m, normal rate.</p> <p>ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.</p> <p>iii) Height 7.50 to 10 m, 7.50 percent extra.</p> <p>iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.</p>		Cubic Meter	6513	1553

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
627	Bridge sub structure and Foundation	17.42		<p>Providing and laying in situ / ready mix M-35 plain cement concrete of trap /granite/quartzite/ gneiss metal for cast in situ piers, abutment, returns, wings etc. including provision of "V" shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete, including plywood/steel form work centering ( excluding dewatering by means of pump) and including bailing out water and curing finishing in CM 1:3 etc. complete. as directed by engineer in charge basic rate shall be increased for height above 5.00 m in followinh manners</p> <p>(a) Height upto 5 M. (With Concrete Mixer)With fine agreegates of required specifications (Natural sand / VSI sand finely washed etc )</p> <p>i) Height up to 5 m, normal rate.</p> <p>ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.</p> <p>iii) Height 7.50 to 10 m, 7.50 percent extra.</p> <p>iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.</p>		Cubic Meter	6655	1553

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
628	Bridge sub structure and Foundation	17.43	BR	<p>Providing and laying in situ / ready mix M-20 plain cement concrete of trap /granite/quartzite/ gneiss metal for cast in situ piers, abutment, returns, wings etc. including provision of "V" shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete, including plywood/steel form work centering ( excluding dewatering by means of pump) and including bailing out water and curing finishing in CM 1:3 etc. complete. as directed by engineer in charge basic rate shall be increased for height above 5..00 m in followinh manners</p> <p>b) Height upto 5 M. (With Batch Mix Plant)</p> <p>With fully automatic micro processor based PLC with SCADA enable with fine agreegates of required specifications (Natural sand / VSI sand finely washed etc )</p> <p>i) Height up to 5 m, normal rate.</p> <p>ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.</p> <p>iii) Height 7.50 to 10 m, 7.50 percent extra.</p> <p>iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.</p>	MORT&H (5th Rev.) 1700, 2204	Cubic Meter	6387	1330

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
629	Bridge sub structure and Foundation	17.44	BR	<p>Providing and laying in situ / ready mix M-25 plain cement concrete of trap /granite/quartzite/ gneiss metal for cast in situ piers, abutment, returns, wings etc. including provision of "V" shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete, including plywood/steel form work centering ( excluding dewatering by means of pump) and including bailing out water and curing finishing in CM 1:3 etc. complete. as directed by engineer in charge basic rate shall be increased for height above 5..00 m in followinh manners</p> <p>b) Height upto 5 M. (With Batch Mix Plant)</p> <p>With fully automatic micro processor based PLC with SCADA enable with fine agreegates of required specifications (Natural sand / VSI sand finely washed etc )</p> <p>i) Height up to 5 m, normal rate.</p> <p>ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.</p> <p>iii) Height 7.50 to 10 m, 7.50 percent extra.</p> <p>iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.</p>	MORT&H (5th Rev.) 1700, 2204	Cubic Meter	6775	1533

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
630	Bridge sub structure and Foundation	17.45	BR	<p>Providing and laying in situ / ready mix M-30 plain cement concrete of trap /granite/quartzite/ gneiss metal for cast in situ piers, abutment, returns, wings etc. including provision of "V" shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete, including plywood/steel form work centering ( excluding dewatering by means of pump) and including bailing out water and curing finishing in CM 1:3 etc. complete. as directed by engineer in charge basic rate shall be increased for height above 5..00 m in followinh manners</p> <p>b) Height upto 5 M. (With Batch Mix Plant)</p> <p>With fully automatic micro processor based PLC with SCADA enable with fine agreegates of required specifications (Natural sand / VSI sand finely washed etc )</p> <p>i) Height up to 5 m, normal rate.</p> <p>ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.</p> <p>iii) Height 7.50 to 10 m, 7.50 percent extra.</p> <p>iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.</p>	MORT&H (5th Rev.) 1700, 2204	Cubic Meter	6942	1533

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
631	Bridge sub structure and Foundation	17.46	BR	<p>Providing and laying in situ / ready mix M-35 plain cement concrete of trap /granite/quartzite/ gneiss metal for cast in situ piers, abutment, returns, wings etc. including provision of "V" shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete, including plywood/steel form work centering ( excluding dewatering by means of pump) and including bailing out water and curing finishing in CM 1:3 etc. complete. as directed by engineer in charge basic rate shall be increased for height above 5.00 m in following manners</p> <p>b) Height upto 5 M. (With Batch Mix Plant)</p> <p>With fully automatic micro processor based PLC with SCADA enable with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc )</p> <p>i) Height up to 5 m, normal rate.</p> <p>ii) Height 5 to 7.50 m, add 5 percent extra over basic rate.</p> <p>iii) Height 7.50 to 10 m, 7.50 percent extra.</p> <p>iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.</p>	MORT&H (5th Rev.) 1700, 2204	Cubic Meter	7084	1553



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
632	Bridge sub structure and Foundation	17.47	BR	Providing and laying in situ / ready mix M-20 cement concrete of trap /granite/quartzite/ gneiss metal for cast in situ R.C.C. solid piers,column etc . including provision of V shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete. Including plywood/steel formwork, centering ( excluding dewatering by means of pump) and including bailling out water and including CM 1:3 curing complete. a) Height upto 5 M. (With Concrete Mixer) i) Height up to 5 m, normal rate. ii) Height 5 to 7.50 m, add 5 percent extra over basic rate. iii) Height 7.50 to 10 m, 7.50 percent extra. iv) Over 10 m Height, add 10 percent extra for every 2.50m rise with fine agreeegates of required specifications (Natural sand / VSI sand finely washed etc )	MORT&H (5th Rev.) 1700, 2204, 2304	Cubic Meter	6152	1553
633	Bridge sub structure and Foundation	17.48	BR	Providing and laying in situ / ready mix M-25 cement concrete of trap /granite/quartzite/ gneiss metal for cast in situ R.C.C. solid piers,column etc . including provision of V shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete. Including plywood/steel formwork, centering ( excluding dewatering by means of pump) and including bailling out water and including CM 1:3 curing complete. a) Height upto 5 M. (With Concrete Mixer) i) Height up to 5 m, normal rate. ii) Height 5 to 7.50 m, add 5 percent extra over basic rate. iii) Height 7.50 to 10 m, 7.50 percent extra. iv) Over 10 m Height, add 10 percent extra for every 2.50m rise with fine agreeegates of required specifications (Natural sand / VSI sand finely washed etc )	MORT&H (5th Rev.) 1700, 2204, 2304	Cubic Meter	6522	1553

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
634	Bridge sub structure and Foundation	17.49	BR	Providing and laying in situ / ready mix M-30 cement concrete of trap /granite/quartzite/ gneiss metal for cast in situ R.C.C. solid piers,column etc . including provision of V shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete. Including plywood/steel formwork, centering ( excluding dewatering by means of pump) and including bailling out water and including CM 1:3 curing complete. a) Height upto 5 M. (With Concrete Mixer) i) Height up to 5 m, normal rate. ii) Height 5 to 7.50 m, add 5 percent extra over basic rate. iii) Height 7.50 to 10 m, 7.50 percent extra. iv) Over 10 m Height, add 10 percent extra for every 2.50m rise.	MORT&H (5th Rev.) 1700, 2204, 2304	Cubic Meter	6579	1553
635	Bridge sub structure and Foundation	17.50	BR	Providing and laying in situ / ready mix M-35 cement concrete of trap /granite/quartzite/ gneiss metal for cast in situ R.C.C. solid piers,column etc . including provision of V shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete. Including plywood/steel formwork, centering ( excluding dewatering by means of pump) and including bailling out water and including CM 1:3 curing complete. a) Height upto 5 M. (With Concrete Mixer) i) Height up to 5 m, normal rate. ii) Height 5 to 7.50 m, add 5 percent extra over basic rate. iii) Height 7.50 to 10 m, 7.50 percent extra. iv) Over 10 m Height, add 10 percent extra for every 2.50m rise with fine agreeegates of required specifications (Natural sand / VSI sand finely washed etc )	MORT&H (5th Rev.) 1700, 2204, 2304	Cubic Meter	6892	1553

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
636	Bridge sub structure and Foundation	17.51	BR	Providing trap/granite/quartzite/gneiss rubble filling over haunches and arches including hand packing. Spec. No.: BR.34 Page No. 146	MORT&H (5th Rev.) 1700, 1704	Cubic Meter	807	110
637	Bridge sub structure and Foundation	17.52	BR	Providing and laying in situ / ready mix controlled M-20 cement concrete of of trap / granite / quartzite/ gniess metal for reinforced cement concrete caps over piers and abutments including necessary scaffolding plywood/steel formwork, compacting by vibrating, finishing in CM 1:3 and curing etc complete ( Excluding reinforcement) With reversible drum type mixer/ concrete batch mix plant (pan mixer) . with fine agreeegates of required specifications (Natural sand / VSI sand finely washed etc )	MORT&H(5th Rev.) 1700, 2205, 2304	Cubic Meter	6070	1578
638	Bridge sub structure and Foundation	17.53	BR	Providing and laying in situ / ready mix controlled M-25 cement concrete of of trap / granite / quartzite/ gniess metal for reinforced cement concrete caps over piers and abutments including necessary scaffolding plywood/steel formwork, compacting by vibrating, finishing in CM 1:3 and curing etc complete ( Excluding reinforcement) With reversible drum type mixer/ concrete batch mix plant (pan mixer) . with fine agreeegates of required specifications (Natural sand / VSI sand finely washed etc )	MORT&H(5th Rev.) 1700, 2205, 2304	Cubic Meter	6885	1578
639	Bridge sub structure and Foundation	17.54	BR	Providing and laying in situ / ready mix controlled M-30 cement concrete of of trap / granite / quartzite/ gniess metal for reinforced cement concrete caps over piers and abutments including necessary scaffolding plywood/steel formwork, compacting by vibrating, finishing in CM 1:3 and curing etc complete ( Excluding reinforcement) With reversible drum type mixer/ concrete batch mix plant (pan mixer) . with fine agreeegates of required specifications (Natural sand / VSI sand finely washed etc )	MORT&H(5th Rev.) 1700, 2205, 2304	Cubic Meter	7027	1578

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
640	Bridge sub structure and Foundation	17.55	BR	Providing and laying in situ / ready mix controlled M-35 cement concrete of of trap / granite / quartzite/ gniess metal for reinforced cement concrete caps over piers and abutments including necessary saffolding plywood/steel formwork, compacting by vibrating, finishing in CM 1:3 and curing etc complete ( Excluding reinforcement) With reversible drum type mixer/ concrete batch mix plant (pan mixer) . with fine agreeegates of required specifications (Natural sand / VSI sand finely washed etc )	MORT&H(5th Rev.) 1700, 2205, 2304	Cubic Meter	7312	1578
641	Bridge sub structure and Foundation	17.56	BR	Providing and placing Cage Unit, with 12 m Dia of each cage in the unit, for each support of staging for 6 m well foundation to two lane bridge, embedded 0.50m below the bed and raised 0.50m above HTL, comprising 25mm dia vertical HYSB bars/ ISMB Sections and bamboos within, strirrups of 25mm and 12mm dia - HYSB bars, including boulder filling with void filling and compaction, with reinforcement, Bolts, fabrication and placing cage in position as per design and drawing complete. 1). For depth of water 5.0 M (Item shall be included in Estimate with prior permission of SE, with due attention to site condition and actual requirement for creek bridges. Depth of standing water shall be verified and certified by EE for each span seperately, and accordinly provisions shall be made) For intermidiate depth of water rate shall be derived by interpolation.	MORT&H (5th Rev.) 1814	Number	330375	21999

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
642	Bridge sub structure and Foundation	17.57	BR	Providing and placing Cage Unit, with 12 m Dia of each cage in the unit, for each support of staging for 6 m well foundation to two lane bridge, embedded 0.50m below the bed and raised 0.50m above HTL, comprising 25mm dia vertical HYSD bars/ ISMB Sections and bamboos within, strirrups of 25mm and 12mm dia - HYSD bars, including boulder filling with void filling and compaction, with reinforcement, Bolts, fabrication and placing cage in position as per design and drawing complete. 1). For depth of water 10.0 M (Item shall be included in Estimate with prior permission of SE, with due attention to site condition and actual requirement for creek bridges. Depth of standing water shall be verified and certified by EE for each span seperately, and accordinly provisions shall be made) For intermidiate depth of water rate shall be derived by interpolation.	MORT&H (5th Rev.) 1814	Number	799531	66986
643	Bridge Super Structure	17.58	BR	Providing and laying in situ / ready mix M-20 cement concrete of trap / granite / quartzite/ gniess metal for reinforced cement concrete block below the bearing including necessary scaffolding, plywood/steel formwork, compaction by vibrating, finishing in CM 1:3 and curing complete (Excluding reinforcement) Using reversible drum type mixer/ concrete batch mix plant (pan mixer) with fine agreegates of required specifications (Natural sand / VSI sand finely washed etc )	MORT&H (5th Rev.) 1700, 2205, 2304	Cubic Meter	5401	1075
644	Bridge Super Structure	17.59	BR	Providing and laying in situ / ready mix M-25 cement concrete of trap / granite / quartzite/ gniess metal for reinforced cement concrete block below the bearing including necessary scaffolding, plywood/steel formwork, compaction by vibrating, finishing in CM 1:3 and curing complete (Excluding reinforcement) Using reversible drum type mixer/ concrete batch mix plant (pan mixer) .	MORT&H (5th Rev.) 1700, 2205, 2304	Cubic Meter	5565	1099

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
645	Bridge Super Structure	17.60	BR	Providing and laying in situ / ready mix M-30 cement concrete of trap / granite / quartzite/ gniess metal for reinforced cement concrete block below the bearing including necessary scaffolding, plywood/steel formwork, compaction by vibrating, finishing in CM 1:3 and curing complete (Excluding reinforcement) Using reversible drum type mixer/ concrete batch mix plant (pan mixer) with fine agreeegates of required specifications (Natural sand / VSI sand finely washed etc )	MORT&H (5th Rev.) 1700, 2205, 2304	Cubic Meter	5635	1098
646	Bridge Super Structure	17.61	BR	Providing and laying in situ / ready mix M-35 cement concrete of trap / granite / quartzite/ gniess metal for reinforced cement concrete block below the bearing including necessary scaffolding, plywood/steel formwork, compaction by vibrating, finishing in CM 1:3 and curing complete (Excluding reinforcement) Using reversible drum type mixer/ concrete batch mix plant (pan mixer) .	MORT&H (5th Rev.) 1700, 2205, 2304	Cubic Meter	5772	1059
647	Bridge Super Structure	17.62	BR	Providing and laying in situ / ready mix M-40 cement concrete of trap / granite / quartzite/ gniess metal for reinforced cement concrete block below the bearing including necessary scaffolding, plywood/steel formwork, compaction by vibrating, finishing in CM 1:3 and curing complete (Excluding reinforcement) Using reversible drum type mixer/ concrete batch mix plant (pan mixer) with fine agreeegates of required specifications (Natural sand / VSI sand finely washed etc )	MORT&H (5th Rev.) 1700, 2205, 2304	Cubic Meter	5914	1059
648	Bridge Super Structure	17.63	BR	Providing and laying in situ / ready mix M-45 cement concrete of trap / granite / quartzite/ gniess metal for reinforced cement concrete block below the bearing including necessary scaffolding, plywood/steel formwork, compaction by vibrating, finishing in CM 1:3 and curing complete (Excluding reinforcement) Using reversible drum type mixer/ concrete batch mix plant (pan mixer) .	MORT&H (5th Rev.) 1700, 2205, 2304	Cubic Meter	6028	1059

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
649	Bridge Super Structure	17.64	BR	Providing and laying in situ / ready mix M-50 cement concrete of trap / granite / quartzite/ gniess metal for reinforced cement concrete block below the bearing including necessary scaffolding, plywood/steel formwork, compaction by vibrating, finishing in CM 1:3 and curing complete (Excluding reinforcement) Using reversible drum type mixer/ concrete batch mix plant (pan mixer) with fine agreegates of required specifications (Natural sand / VSI sand finely washed etc )	MORT&H (5th Rev.) 1700, 2205, 2304	Cubic Meter	6222	1059
650	Bridge Super Structure	17.65	BR	Providing and cutting bending, hooking, laying in position and tying HCRM/ CRS for reinforcement as per detailed drawings for R.C.C. work Note : Where item no 34(c) considered in estimate, Anti Corrosive Treatment Shall not be considered additionally. HCRM : High Corrosion Resistance Marine. CRS : Corrosion Resistance Steel.	Specifications : MORT&H (5th Rev.) 1600	Metric Tonne	63734	6233
651	Bridge : Well Foundation	17.66	BR	Chipping and dressing of the R.C.C. piles upto 0.60 meter including cleaning reinforcement and removal of dismantled materials upto a distance of 50 meter beyond the building area etc. for providing pile caps.	Specifications : MORT&H (5th Rev.) 2604	Number	548	548
652	Bored Pile, Well Foundation, sub & Super Structure	17.67		<b>Supply of all types of Structural steel conforming to Fe 410 B</b> of IS 2062, Fabrication, assembling, erection / slewing/ end launching of Steel girders ( NOT requiring traffic block) upto 45.7 m span on sub structure incl. provision of trolley refuges, incl. loading, unloading, lift and taxes complete, assembly of girders on drift/ bolts, field riveting/ welding, assembling of temporary support for side slewing, raising of girders to the bed block level, providing sliding arrangements (Material at site, fabrication at site, erection / launching etc only) PLATE GIRDER / Semi Through Girder		M.T	102061	25708
653	Bored Pile, Well Foundation, sub & Super Structure	17.68		<b>Extra for working</b> under running traffic / traffic block conditions for above Items.		M.T	20412	NA

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
654	Bored Pile, Well Foundation, sub & Super Structure	17.69		<b>Metalizing of steel work of girder with grit blasting</b> as per IRS - B1-2011 following by one coat of etch primer (as per IS:5666) one coat of Zinc Chrome primer (as per IS:104) and two coats of aluminium paint (as per IS:2339) with all labour, tools, plants and materials.		Sqm	169	48
655	Bored Pile, Well Foundation, sub & Super Structure	17.70		Providing <b>sacrificial shuttering for deck slab</b> made up with galvanised Cold Rolled Cold Annealed (CRCA) steel of 310 MPA Grade with all Contractor's material, labour, erection fixing, welding etc. (Decking Sheet )		M.T	63208	3061
656	Bored Pile, Well Foundation, sub & Super Structure	17.71		Providing and removing <b>barricading with the help of portable fencing along the running track</b> where the work is to be done in close vicinity of the track. Fencing shall consist of self supporting steel angles of size 50 x50x6mm, 1.5m long provided with hooks etc. and embedded in CC 1:2:4 block of size 0.23x0.23x0.23M placed at c/c distance of 2.0 M along the track. 12 mm dia rods in three horizontal layers tack welded with the angle posts including providing Retro-reflective tapes in Horizontal & vertical direction. Note : Released material will be the property of the contractor after the completion of work. Cost of cement to be paid separately.		RMT	559	34
657	Bored Pile, Well Foundation, sub & Super Structure	17.72		<b>Load testing of one or more spans of bridge</b> as selected by the Engineer as per approved load test procedure following relevant IS/IRC / Railway codes with contractor's labour, deflection measuring instruments, loading materials, recording and analyzing the load testing results including all leads and lifts etc. complete as required. The rates are all inclusive and will be paid after load test is finished and girder is cleared of the kentledges/ loading materials etc. The load shall be 1.25 times the stipulated design load based on Design load & not span ( <b>for Span design load upto 100 MT.</b> )		PER TEST	132784	96408



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
658	Bored Pile, Well Foundation, sub & Super Structure	17.73		<b>Load testing of one or more spans of bridge</b> as selected by the Engineer as per approved load test procedure following relevant IS/IRC / Railway codes with contractor's labour, deflection measuring instruments, loading materials, recording and analyzing the load testing results including all leads and lifts etc. completeas required. The rates are all inclusive and will be paid after load test is finished and girder is cleared of the kentledges/ loading materials etc. The load shall be 1.25 times the stipulated design load based on Design load & not span ( <b>Extra for every increase of 100.00mt. or part there for in the span load capacity up to 800.00 mt.</b> )		PER TEST	131582	96408

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
659	Arch Bridge	18.01		Providing factory made hydraulically pressed mechanically vibrated and compacted Precast Ready Mix <b>M-30</b> controlled cement concrete of trap /granite/quartzite/gneiss metal <b>Blocks</b> of 520 mm top & 460 mm bottomX1000mm length and 400mm thick having various cross section areas for assembly of Arch Strip, including lifting hooks, including machined surfaced laser cut, trapezoidal steel moulds. As specified and as per IS 456:2000 including cost of all materials, preparation of casting bed, manufacturing, curing, removing from steel moulds by using crane or required machinery and stacking of blocks for preparation of arch strip of various lengths, including lead of all materials up to RMC plant, with fully automatic micro processor based PLC with SCADA enabaled concrete Batch Mix Plant ( PAN Mixer ) With Natural sand. etc. complete. as directed by the Engineer in charge.	As directed by Engineer-in Charge	Number	2990	265
660	Arch Bridge	18.02		Providing factory made hydraulically pressed mechanically vibrated and compacted Precast Ready Mix <b>M-40</b> controlled cement concrete of trap /granite/quartzite/gneiss metal <b>Blocks</b> of 520 mm top & 460 mm bottomX1000mm length and 400mm thick having various cross section areas for assembly of Arch Strip, including lifting hooks, including machined surfaced laser cut, trapezoidal steel moulds. As specified and as per IS 456:2000 including cost of all materials, preparation of casting bed, manufacturing, curing, removing from steel moulds by using crane or required machinery and stacking of blocks for preparation of arch strip of various lengths, including lead of all materials up to RMC plant, with fully automatic micro processor based PLC with SCADA enabaled concrete Batch Mix Plant ( PAN Mixer ) With Natural sand. etc. complete. as directed by the Engineer in charge.	As directed by Engineer-in Charge	Number	3060	265

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
661	Arch Bridge	18.03		Providing factory made hydraulically pressed mechanically vibrated and compacted Precast Ready Mix <b>M-50</b> controlled cement concrete of trap /granite/quartzite/gneiss metal <b>Blocks</b> of 520 mm top & 460 mm bottomX1000mm length and 400mm thick having various cross section areas for assembly of Arch Strip, including lifting hooks, including machined surfaced laser cut, trapezoidal steel moulds. As specified and as per IS 456:2000 including cost of all materials, preparation of casting bed, manufacturing, curing, removing from steel moulds by using crane or required machinery and stacking of blocks for preparation of arch strip of various lengths, including lead of all materials up to RMC plant, with fully automatic micro processor based PLC with SCADA enabaled concrete Batch Mix Plant ( PAN Mixer ) With Natural sand. etc. complete. as directed by the Engineer in charge.	As directed by Engineer-in Charge	Number	3174	265
662	Arch Bridge	18.04		Providing factory made hydraulically pressed mechanically vibrated and compacted Precast Ready Mix <b>M-30</b> controlled cement concrete of trap /granite/quartzite/gneiss metal <b>Socket Blocks</b> of 520 mm top & 460 mm bottom x1000mm length and 300mm thick having various cross section areas for assembly of Arch Strip, including lifting hooks, including machined surfaced laser cut, trapezoidal steel moulds. As specified and as per IS 456:2000 including cost of all materials, preparation of casting bed, manufacturing, curing, removing from steel moulds by using crane or required machinery and stacking of blocks for preparation of arch strip of various lengths, including lead of all materials up to RMC plant, with fully automatic micro processor based PLC with SCADA enabaled concrete Batch Mix Plant ( PAN Mixer ) With Natural sand. etc. complete. as directed by the Engineer in charge.	As directed by Engineer-in Charge	Number	4558	207

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
663	Arch Bridge	18.05		Providing factory made hydraulically pressed mechanically vibrated and compacted Precast Ready Mix <b>M-40</b> controlled cement concrete of trap /granite/quartzite/gneiss metal <b>Socket Blocks</b> of 520 mm top & 460 mm bottom x1000mm length and 300mm thick having various cross section areas for assembly of Arch Strip, including lifting hooks, including machined surfaced laser cut, trapezoidal steel moulds. As specified and as per IS 456:2000 including cost of all materials, preparation of casting bed, manufacturing, curing, removing from steel moulds by using crane or required machinery and stacking of blocks for preparation of arch strip of various lengths, including lead of all materials up to RMC plant, with fully automatic micro processor based PLC with SCADA enabled concrete Batch Mix Plant ( PAN Mixer ) With Natural sand. etc. complete. as directed by the Engineer in charge.	As directed by Engineer-in Charge	Number	4667	207
664	Arch Bridge	18.06		Providing factory made hydraulically pressed mechanically vibrated and compacted Precast Ready Mix <b>M-50</b> controlled cement concrete of trap /granite/quartzite/gneiss metal <b>Socket Blocks</b> of 520 mm top & 460 mm bottom x1000mm length and 300mm thick having various cross section areas for assembly of Arch Strip, including lifting hooks, including machined surfaced laser cut, trapezoidal steel moulds. As specified and as per IS 456:2000 including cost of all materials, preparation of casting bed, manufacturing, curing, removing from steel moulds by using crane or required machinery and stacking of blocks for preparation of arch strip of various lengths, including lead of all materials up to RMC plant, with fully automatic micro processor based PLC with SCADA enabled concrete Batch Mix Plant ( PAN Mixer ) With Natural sand. etc. complete. as directed by the Engineer in charge.	As directed by Engineer-in Charge	Number	4731	207

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
665	Arch Bridge	18.07		Providing and laying <b>M-50</b> grade Ready Mix cement concrete of 60mm thickness, mechanically vibrated and compacted above linearly and parallelly arranged precast blocks placed on ISMC 100 base to form a layer of <b>screed concrete</b> over unit arch strip. Including HYFLEX steel wire rope – 6 X 36, steel core fixed with aluminum ferrules of required size and shape in individual block, for connecting blocks in unit arch strip. Including crimping of each ferule with wire rope using embedded steel bar of 8mm diameter and 150mm in length. Including 10mm dia steel roads for fixing wire ropes. Including Z-plate acting as form work and steel separation plate of 10mm thickness over individual joint. As specified and as per IS 456:2000 including cost of all materials, preparation of level bed, curing, , including lead of all materials up to RMC plant / casting yard, etc. complete. as directed by the Engineer in charge.	As directed by Engineer-in Charge	Square Metre	4626	282
666	Arch Bridge	18.08		<b>Providing Lifting, transportation and placing</b> activities of precast arch units and sockets from casting yard / RMC plant to construction site including all necessary lifting arrangements in hydraulic telescopic cranes of appropriate lifting capacity, transportation on flat bed trailer of required length, including lifting slings with D-shackle, pulling ratchets, including <b>ISMC 300</b> steel supporting cross beam, two numbers of P type 10 ton capacity chain pully , including temporary supports for lifting and transporting on trailers, including construction of leveling platform crane and trailer, including scaffolding and platform at pier / abutment top level, including necessary all manpower., etc. complete., as directed by Engineer In Charge.	As directed by Engineer-in Charge	M.T.	3453	253

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
667	Bridge Maintenance New Item	19.01	BR	Providing and fabricating structural steel work for Sakav Decking in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.	As directed by Engineer in Charge	Metric Tonne	73203	12598
668	Bridge Maintenance New Item	19.02	BR	Providing epoxy mortar with quartz sand with proportion epoxy concrete sand 1:6 for repairs to the cracked pier, girder etc including chipping the loose cracked concrete cleaning rust by means of brush, sand blasting and rebuilding the section giving minimum 3 day compressive strength of 525 Kg/cm <sup>2</sup> and maximum epoxy consumption of 315 Kg/m <sup>3</sup> of mortar with all materials labour equipment etc complete (Quartz Sand 885 Kg/Cum)	As directed by Engineer in Charge	Cubic Meter	246626	18290
669	Bridge Maintenance New Item	19.03	BR	Providing and laying epoxy concrete with epoxy aggregate proportion 1:4 using epoxy fine quartz sand, coarse quartz sand and trap metal in suitable proportion by weight including weighing, mixing placing inclusive of cleaning the surface by wire, brush, sand blasting for applying the tackcoat of epoxy as directed and giving minimum 3 days compressive strength of 525 Kg/cm <sup>2</sup> and maximum epoxy consumption of 214 Kg/m <sup>3</sup> of concrete including necessary formwork with all materials, labour, centering equipment etc complete as directed. (scaffolding will be paid separately if required)( Fine sand 660 Kg/Cum, Course Sand 660Kg/Sqm, Trap metal 660 Kg/Sqm)	As directed by Engineer in Charge	Cubic Meter	143153	14067
670	Bridge Maintenance New Item	19.04	BR	Providing and applying epoxy paint primer with middle coat and top coat to superstructure including scaffolding etc complete.	As directed by Engineer in Charge	Square Meter	606	276
671	Bridge Repair New Item	19.05	BR	Making and working inside steel cages for crocodile including handling the same with suitable hanging arrangements	As directed by Engineer in Charge	Number	513856	1022
672	Bridge Repair New Item	19.06	BR	Underwater Inspection : Underwater inspection cum video graph shall be arranged by divers to inspect from the cavity of well foundation and mapping of the cavity. A) Before rectification work	As directed by Engineer in Charge	Number	121206	16170

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
673	Bridge Repair New Item	19.07	BR	Underwater Inspection : Underwater inspection cum video graph shall be arranged by divers to inspect from the cavity of well foundation and mapping of the cavityB) After rectification work	As directed by Engineer in Charge	Number	65906	6468
674	Bridge Repair New Item	19.08	BR	Underwater Surface Preparation: Crack surface shall be cleaned using underwater jet to remove the fungal growth and other foreign materials to enable a clean and visible surface. The item includes the cost of hire charges of all equipment, diving equipment and all charges for divers etc., complete.	As directed by Engineer in Charge	Running Meter	672	539
675	Bridge Repair New Item	19.09	BR	Underwater Crack Groove Cutting: Groove shall be cut using underwater concrete cutting machine of size of 50 mm wide and 75 mm deep on each side of the crack to form as "V" groove all along the crack to fill the underwater polyester resin/ Epoxy putty (horizontal and vertical cracks). After the groove cutting, the concrete shall be removed from the groove using the pneumatic concrete chipping machine to form "V" groove. The item includes the cost of hire charges of pneumatic equipment, air compressor and all charges for divers with accessories etc., complete.	As directed by Engineer in Charge	Running Meter	2146	1617
676	Bridge Repair New Item	19.10	BR	Underwater Crack Sealing/Filling using underwater Epoxy mortar : Under water Epoxy putty shall be mixed using the slow speed heavy duty mixing machine to obtain a uniform mix. The mixed materials shall be placed all along the prepared "V" groove and finished smoothly using the putty blade/ trowel within 30 minutes by using the divers. The finished surface shall be allowed for curing minimum of 24 hours to attain the strength. The item includes the cost all materials, hire charges for all machineries and all charges for divers with accessories etc., complete. Make - Material of reputed manufacturer	As directed by Engineer in Charge	Kilogramme	1888	1078

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
677	Bridge Repair New Item	19.11	BR	Underwater P/Fixing the Nozzle for high pressure underwater epoxy grout: Drilling hole of 12/ 18 mm dia to a depth of minimum 100 mm across the crack to an angle of 45° @ 500 mm C/C, using pneumatic drilling machine without disturbing the epoxy mortar filled on the "V" groove with the help of divers. The nozzle shall be inserted in the drilled hole and fixed using the under water polyester resin grout and allowed for curing for final set. The item includes the cost of all materials, hire charges for all machineries and all charges for divers with accessories etc., complete.	As directed by Engineer in Charge	Number	924	539
678	Bridge Repair New Item	19.12	BR	Underwater for high pressure underwater epoxy grout: Grouting with Water Insensitive Underwater Epoxy Grout Base and hardener shall be mixed with using hand held heavy duty electrically operated mixing machine until uniform mix is obtained. The mixed material shall be poured in to the high pressure grouting machine container and grouted through the non-return nozzle already fixed on cracks. The grouting shall be done from the bottom of crack until grout rejects of all other grouting ports. The grouting shall be carried out with the help of divers and underwater communication device to know the conditions. The item includes the cost of all materials, hire charges for all machineries and all charges for divers with accessories etc., complete.	As directed by Engineer in Charge	Kilogramme	2100	1078
679	Bridge Repair New Item	19.13	BR	Providing fixing of dowel rod of 16 mm dia in the river bed for 400 mm depth @ 1000 mm c/c in single layer and grouting with underwater epoxy grout includes the cost of hire charges of all machineries, barge, boat, cost of all tools and all labour charges etc., complete.	As directed by Engineer in Charge	Number	3718	2156
680	Bridge Repair New Item	19.14	BR	Providing fixing of shear links of 12 mm dia in the periphery of the well wall for 100 mm mm depth @ 500 mm c/c bothway and grouting with underwater epoxy grout includes the cost of hire charges of all machineries, barge, boat, cost of all tools and all labour charges etc., complete.	As directed by Engineer in Charge	Number	700	539



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
681	Bridge Repair New Item	19.15	BR	Providing Filling of concrete encasing of grade M35 around the periphery of the pier of 500 mm thick upto 3.5 m from the river bed level including Scarifical leakproof MS shuttering includes the cost of hire charges of all machineries, barge, boat, cost of all tools and all labour charges etc., complete.	As directed by Engineer in Charge	Cubic Meter	91126	3234
682	Bridge Repair New Item	19.16	BR	Surface Preparation: Crack surface shall be cleaned using underwater jet to remove the fungal growth and other foreign materials to enable a clean and visible surface. The item includes the cost of hire charges of all equipment, diving equipment and all charges for divers etc., complete.	As directed by Engineer in Charge	Running Meter	638	512
683	Bridge Repair New Item	19.17	BR	Crack Groove Cutting: Groove shall be cut using hand held electrically operated concrete cutting machine of size of 50 mm wide and 75 mm deep on each side of the crack to form as "V" groove all along the crack to fill the polyester resin/ Epoxy putty (horizontal and vertical cracks). After the groove cutting, the concrete shall be removed from the groove using the pneumatic concrete chipping machine to form "V" groove. The item includes the cost of hire charges for all machineries, tools and barges and all labour charges etc., complete.	As directed by Engineer in Charge	Running Meter	743	512
684	Bridge Repair New Item	19.18	BR	Crack Sealing/Filling using epoxy mortar: Base and hardener of the high strength repair mortar . Epoxy putty shall be mixed using the slow speed heavy duty mixing machine to obtain a uniform mix. The mixed materials shall be placed all along the prepared "V" groove and finished smoothly using the putty blade/ trowel within 30 minutes by using the divers. The finished surface shall be allowed for curing minimum of 24 hours to attain the strength. The item includes the cost of hire charges of all equipment , tools and plants and all labour charges etc., complete.	As directed by Engineer in Charge	Kilogramme	1183	512
685	Bridge Repair New Item	19.19	BR	P/Fixing of 12 mm nozzle in the crack portion @ 500 c/c including material, labour complete in all respect.	As directed by Engineer in Charge	Number	747	512
686	Bridge Repair New Item	19.20	BR	Providing Repairing of honeycombs and minor damages with Polymer Modified Morter including material,labour complete in all respect.	As directed by Engineer in Charge	Kilogramme	133	77

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
687	Bridge Repair New Item	19.21	BR	Application of Protective coating Supply and application of Siliane/ Siloxane primer. Primer shall be applied by brush/ sprayed over the prepared concrete surface at 0.30 to 0.40 litter/ Sqm by using the airless nozzle gun. After applying primer coat, Single component aliphatic acrylate UV resistant protective cum decorative coat DEKGUARD S or similar shall be applied over the primed surface using airless nozzle gun in two coats and each coat shall b e 150 microns DFT. Including cost of all materials, cost of hire charges of tools and plants and all labour charges etc. complete. Make - Fosroc or equivalent product of BASF/ SIKA or other similar firm.	As directed by Engineer in Charge	Square Meter	895	512
688	Bridge Repair New Item	19.22	BR	Providing Boulder to the cavity area of 75-200mm in size includes the cost of hire charges of all machineries, barge, boat, cost of all tools and all labour charges etc., complete.	As directed by Engineer in Charge	Cubic Meter	3705	2102
689	Bridge Repair New Item	19.23	BR	Providing filling of Micro-concrete and 10 mm aggregate ( 1:1) including scarificial leakproof MS shuttering includes the cost of hire charges of all machineries, barge, boat, cost of all tools and all labour charges etc., complete.	As directed by Engineer in Charge	Cubic Meter	102979	19404
690	Bridge Repair New Item	19.24	BR	Providing Grouting of nozzles with Low Viscosity Epoxy grout including material, labour complete in all respect.	As directed by Engineer in Charge	Cubic Meter	1407	512
691	Bridge Repair New Item	19.25	BR	Drilling 32 mm dia hole and upto depth of 400 mm and grouting with epoxy resin of reinforcement steel of 25 mm dia of all manpower and equipments complete in all respect	As directed by Engineer in Charge	Number	3893	1536
692	Bridge Repair New Item	19.26	BR	Re-casting of bracket with micro-concrete and 10 mm aggregate ( 1:1) with leakproof shuttering all manpower and equipments complete in all respect	As directed by Engineer in Charge	Cubic Meter	90835	12800
693	Bridge Repair New Item	19.27	BR	P/fixing of carbon 100 mm x 1.4 mm carbon laminate with adhesive including of all manpower and equipments complete in all respect	As directed by Engineer in Charge	Running Meter	6529	1536
694	Bridge Repair New Item	19.28	BR	P/Applying prestressing to the laminate with hydraulic system to the required force as per approved design with all manpower and equipments complete in all respect	As directed by Engineer in Charge	Running Meter	7837	2048
695	Bridge Repair New Item	19.29	BR	P/Fixing of carbon fiber sheet of 430 GSM with adhesive including of hanging scofolding of all manpower and equipments complete in all respect	As directed by Engineer in Charge	Square Meter	8567	1536

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
696	Bridge Repair New Item	19.30	BR	Providing and fixing carbon fiber anchor including drilling hole in the base concrete fixing the anchor using epoxy 50X55 system spreading the anchor fibers in star pattern including application of saturant etc. complete.	As directed by Engineer in Charge	Number	473	256
697	Bridge Repair New Item	19.31	BR	Anticorrosive treatment to expose reinforcement in two coats with time interval of minimum 4 hours between each coat. The application shall be done by brush.	As directed by Engineer in Charge	Square Meter	503	256
698	Bridge Repair New Item	19.32	BR	Carry out application of "Bi-polar migratory corrosion inhibitor" on concrete surface. This inhibitor has migratory kind of property which permits the material to migrate to a virtual extent of 100mm, through pores of concrete, inhibiting the corrosion etc complete.	As directed by Engineer in Charge	Square Meter	640	410
699	Bridge Repair New Item	19.33	BR	Providing & applying structural grade epoxy latex bond coat prior to application of any type of mortar confirming to IS codes or equivalent to ensure bond between old concrete & new concrete by brush application etc complete.	As directed by Engineer in Charge	Square Meter	682	256
700	Bridge Repair New Item	19.34	BR	Providing & applying 2 coats of compatible Polyurethane on epoxy fiber wrapped surface with brush /spray application etc complete.	As directed by Engineer in Charge	Square Meter	679	410
701	Bridge Repair New Item	19.35	BR	Providing & applying 20mm thick single coat Epi-bond plaster on FRP wrap surface & other area etc complete.	As directed by Engineer in Charge	Square Meter	1079	410
702	Bridge Repair New Item	19.36	BR	Providing 10 mm dia and 150 mm long tie rod stud through corrugated GI decking sheet and welding to the deck slab reinforcement for holding decking sheets in place etc complete.	As directed by Engineer in Charge	Number	65	16
703	Bridge Repair New Item	19.37	BR	Dismantling of concrete pedestal up to required height including cutting reinforcement by using of concrete saw, complete including all fixing arrangements of the machines, water for cooling, diamond saw, other accessories, safety of workers and removal and disposal of debris as per instruction of site in- charge etc complete	As directed by Engineer in Charge	Number	18500	2433
704	Bridge Repair New Item	19.38	BR	Dismantling of concrete pedestal up to required height using electrical breakers including cutting reinforcement by gas cutters, other accessories, safety of workers and removal and disposal of debris as per instruction of site in- charge	As directed by Engineer in Charge	Number	4878	2719

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
705	Bridge Repair New Item	19.39	BR	Providing and applying anticorrosive treatment with epoxy zinc rich primer to the exposed reinforcement after cleaning either with wire brush or sand blasting including all tools, tackels, machinery etc. complete.	As directed by Engineer in Charge	Square Meter	728	493
706	Bridge Repair New Item	19.4	BR	Stone work Joint Filling :Racking of joints in Course rubble masonry (CRM). Sealing of the joints with epoxy mortar confirming to Section 2800 of technical specification, including pointing, finishing ect., complete.	As directed by Engineer in Charge	Number	1372	493
707	Bridge Repair New Item	19.41	BR	Dismantelling existing damaged Drainage Water Spout and providing 100mm diameter GI water spouts as per detailed drawings in RCC slab and wearing surface/kerb etc.complete	As directed by Engineer in Charge	Number	3118	1972
708	Bridge Repair New Item	19.42	BR	Providing and fixing additional reinforcement to replace the corroded diameter of existing steel for strengthening purpose.	As directed by Engineer in Charge	Number	85	8
709	Bridge Repair New Item	19.43	BR	Raising of folding to reach the entire surface area of bridge. upto10 m height above ground level, made with MS tube, horizontal and vertical tub joint with cup and lock system with MS tubes, challies, MS clamp and maintaing it in a serveciabl econdition for execution work of cleaning and/ or pointing and or/applying protection coating and/ inspection of work at required locations and removing it there after etc complete. (Item includes making of temporary support for scaffolding, cost of scaffolding, labour, material, safety devices,etc.,all complete)	As directed by Engineer in Charge	Square Meter	681	148
710	Bridge Repair New Item	19.44	BR	Structural Repairs to damaged concrete surface with polymer concrete /mortar with AC-ACRYLATE-REPAIR and AC-BOND-AID as detailed in the method statement including material, labour, etc., all complete as directed by engineer. (Repairs to deck slab, piers, abutment, girders and other locations up to 40 mm thickness).	As directed by Engineer in Charge	Square Meter	3833	592
711	Bridge Repair New Item	19.45	BR	Core Strengthening of Concrete Structure: Strengthening of concrete structure including grouting of concrete with epoxy, AC-DUR-IE, as detailed in the method statement. Item includes cost of material, labour, equipment's and also removal of nozzles and finishing of the surface after the work.	As directed by Engineer in Charge	Number	4070	986

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
712	Bridge Repair New Item	19.46	BR	Erecting supports for placing the jacks, props and necessary steel structure. Placing of the jacks below bearings. (as per the design of lifting scheme). The lifting scheme shall be put up to the approval of consultants after approval of the work shall be done by competent authority. Cost of the bearings, design of erection system, jacks, platforms, safety devices, etc., complete including releasing of bridge span on the new bearings. (Bearing replacement from 50 to 100 numbers per bridge)	As directed by Engineer in Charge	Number	32845	4395

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
<b>SSR 2019-20 BUILDING WORKS</b>								
713	Excavation	21.02	BDA 1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	Bd.A.1 Page No. 259	Cubic Metre	157.00	92.00
714	Excavation	21.04	BDA 1	Excavation for foundation in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.0m) By Mechanical Means	Bd.A.1 Page No. 259	Cubic Metre	196.00	116.00
715	Excavation	21.06	BDA 2	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Means	Bd.A.2 Page No. 259	Cubic Metre	172.00	102.00
716	Excavation	21.08	BDA 2	Excavation for foundation in Hard murum including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5 to 3.0m.) By Mechanical Means	Bd.A.2 Page No. 259	Cubic Metre	215.00	127.00
717	Excavation	21.10	BDA 3	Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 50 metres, beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5m.) By Mechanical Means	Bd.A.3 Page No. 259	Cubic Metre	191.00	112.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
718	Excavation	21.12	BDA 3	Excavation for foundation in Hard murum and boulders including removing the excavated material upto a distance of 50 metres, beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5 m to 3.0 m.) By Mechanical Means	Bd.A.3 Page No. 259	Cubic Metre	236.00	139.00
719	Excavation	21.14	BDA 4	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth /murum, ramming, watering including shoring and strutting etc. complete (lift upto 1.5m) By Mechanical Means	Bd.A.4 Page No. 259	Cubic Metre	329.00	230.00
720	Excavation	21.16	BDA 4	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth/murum, ramming ,watering including shoring and strutting etc. complete. (Lift from 1.5m To 3.0 m.) By Mechanical Means	Bd.A.4 Page No. 259	Cubic Metre	402.00	284.00
721	Excavation	21.17	BDA 5	Excavation for foundation in Hard rock by blasting including trimming and leveling the bed by chiseling where necessary and removing the excavated material and stacking it in measurable heaps within a distance of 50 metres from the building area including dewatering and back filling with available earth/murum, watering, ramming, etc. complete. (Lift upto 1.5m) By Mechanical Means	Bd.A.5 Page No. 259	Cubic Metre	670.00	358.00
722	Excavation	21.18	BDA 5	Excavation for foundation in Hard-rock by blasting including trimming and leveling the bed by chiselling where necessary and removing the excavated material and stacking it in measurable heaps within a distance of 50 metres from the building area including dewatering and back filling with available earth/murum watering, ramming etc. complete. (Lift from 1.5m To 3.0 m) By Mechanical Means	Bd.A.5 Page No. 259	Cubic Metre	795.00	443.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
723	Excavation	21.19	BDA 5 B1	Excavation for foundation in Hard-rock by controlled blasting including trimming and leveling the bed by chiselling where necessary and removing the excavated material and stacking it in measurable heaps within a distance of 50 metres. from the building area including dewatering and back filling with available earth soil /murum watering, ramming etc. complete. (Lift upto 1.5m) By Mechanical Means	Bd.A.5 Page No. 259	Cubic Metre	932.00	369.00
724	Excavation	21.20	BDA 6	Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc. including trimming and levelling the bed, removing the excavated material upto a distance of 50 metres beyond the building area stacking as directed, dewatering and back filling with available earth/ murum watering, ramming etc. complete. (Lift upto 1.5 m). By Mechanical Means	Bd.A.6 Page No. 260	Cubic Metre	1027.00	715.00
725	Excavation	21.21	BDA 7	Excavation for foundation in laterite rock (soft or hard) including trimming and levelling the bed for the foundation, removing the excavated material up to a distance of 50 metres beyond the building area, stacking as directed, dewatering and back filling with available murum, watering, ramming etc. complete. (Lift upto 1.5 m.) By Mechanical Means	Bd.A.7, Page No. 260	Cubic Metre	1159.00	715.00
726	Excavation	21.22	BDW	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the bottom surface and sides of excavation at the rate of 5 litres of emulsion concentrate of 1.0 percent of chlorophyrifos per square meter of surface area covering 10 years guarantee on bond paper.	As directed by Engineer in charge.	Square Metre	82.00	5.00
727	Excavation	21.23	BDW	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) treatment by treating the backfill in immediate contact with foundation at the rate of 5 litres of emulsion concentrate of 1.0 percent of clorophyrifos per square metre of vertical surface area covering 10 years guarantee on bond paper.	As directed by Engineer in charge.	Square Metre	86.00	5.00
728	Excavation	21.24	BDW	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate at 1.0 percent of clorophyrifos per square metre of surface area covering ten years guarantee on bond paper.	As directed by Engineer in charge.	Square Metre	83.00	6.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
729	Excavation	21.25	BDW	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-I) to the soil along the external face of building by punching holes of 1.2 of 1.5 C.M. diametre about 30 -60 cm deep at 15 cm c/c as close to the wall as possible and to inject 0.5 percent of aldrin or clorophyrifos at the rate of 7.5 litres per hole and sealing the same with proper filling and covering 10 years guarantee on bond paper.	As directed by Engineer in charge.	Square Metre	136.00	20.00
730	Excavation	21.26	BDW	Providing antitermite treatment to the wooden frames of doors/windows of the existing building as per I.S. 6313 (Part-III) by drilling 6mm dia. holes at four corners on one side and four corners on other side at a downward angle of about 45 degree at the junction of wood work and masonary and injecting 150 ml. of chlorodane 5% W.C. and sealing by filling putty etc. complete covering 2 years guarantee on bond paper.	As directed by Engineer in charge.	Number	58.00	8.00
731	Excavation	21.27	BDW	Providing antitermite treatment to the joints of wooden beams/joist used for the roof work of the existing building as per I.S. 6313 (Part-III) by drilling 6mm dia. holes at a downward angle of about 45 degree at the junction of wood work and masonary and injecting 80 ml. of chlorodane 5% W.C. and sealing by filling putty etc. complete covering 2 years guarantee on bond paper.	As directed by Engineer in charge.	Number	46.00	14.00
732	Excavation	21.28	BDW	Providing antitermite treatment to the sides of flooring of the existing building as per I.S. 6313 (Part-III) by punching holes 6mm dia. drilled at a distance of 30cm. centre to centre and injecting one percent of chlorodane emulsion concentrate at the rate of 50 ml per hole and sealing by filling putty etc. complete covering 2 years guarantee on bond paper.	As directed by Engineer in charge.	Number	21.00	8.00
733	Excavation	21.29	BDW	Providing antitermite treatment around the periphery of the existing building as per I.S. 6313 (Part-III) by excavating trenches of 20cm width and exposing the sides of columns and plinth beams upto a depth of 300mm and injecting one percent of chlorodane emulsion concentrate at the rate of 2.25 litres per Rmt and refilling the trenches etc. complete covering 2 years guarantee on bond paper.	As directed by Engineer in charge.	Running Metre	53.00	29.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
734	Excavation	21.30	BDW	Providing general pest control services to the building to control the nuisance of cockroaches, lizards, pin bores and other insects etc. with 4 operations in a year and monthly check up.	As directed by Engineer in charge.	Square Metre	20.00	7.00
735	Excavation	21.31	BDW	Providing general pest control services to small size of inspection chamber to control the nuisance of cockroaches during the year with monthly check up.	As directed by Engineer in charge.	Number	147.00	92.00
736	Excavation	21.32	BDW	Providing general pest control services to big size of inspection chamber to control the nuisance of cockroaches during the year with monthly check up.	As directed by Engineer in charge.	Number	296.00	122.00
737	Excavation	21.33	BDW	Labour charges for removing grass, thorney shrubs, Jungli shrub, Kubabul and alike grass along roadside making the ground clean by showel and phavaras etc. complete.	As directed by Engineer in charge.	Square Metre	6.00	6.00
738	Excavation	21.34	BDW	Removing grass, gazer grass and disposing off out of building premises including making clean the ground by shovel and phavaras etc. complete.	As directed by Engineer in charge.	Square Metre	4.80	4.80
739	Excavation	21.36	BDA 10	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.	Bd.A.10 Page No. 262	Cubic Metre	96.00	96.00
740	Excavation	21.37	BDA 11	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete.	Bd.A.11 Page No. 263	Cubic Metre	440.00	96.00
741	Excavation	21.38	BDA 12	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.	Bd.A. 12 Page No. 264	Cubic Metre	1050.00	345.00
742	Excavation	21.39	BDA 13	Providing and filling in the foundation with sand of approved quality including watering, compacting etc. complete. (To be executed with prior approval of Superintending Engineer)	Bd.A.13 Page No. 264	Cubic Metre	2021.00	96.00
743	Excavation	21.40	BDA	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.	As directed by Engineer in charge.	Cubic Metre	1055.00	348.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
744	Pile Foundation: Building	22.01	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-20 RCC single rim bored pile of 225 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangement, compaction of concrete including chipping and dressing including chipping and dressing if required etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	679.00	143.00
745	Pile Foundation: Building	22.02	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete of M20 grade RCC single rim bored pile of 300 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	865.00	217.00
746	Pile Foundation: Building	22.03	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-20 for single rim bored pile of 380 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	1118.00	313.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
747	Pile Foundation: Building	22.04	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-20 for single rim bored pile of 450 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	1407.00	436.00
748	Pile Foundation: Building	22.05	Bd-B	Providing and laying M-20 RCC cast in situ single rim bored pile of 535 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	1779.00	565.00
749	Pile Foundation: Building	22.06	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-20 for single rim bored pile of 600 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	2120.00	694.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
750	Pile Foundation: Building	22.07	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-25 for single rim bored pile of 225 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	684.00	143.00
751	Pile Foundation: Building	22.08	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-25 for single rim bored pile of 300 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock,excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	884.00	217.00
752	Pile Foundation: Building	22.09	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-25 for single rim bored pile of 380 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock,excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	1135.00	313.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
753	Pile Foundation: Building	22.10	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-25 for single rim bored pile of 450 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock,excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	1494.00	436.00
754	Pile Foundation: Building	22.11	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-20 for double rim bored pile of 225 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock,excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	784.00	143.00
755	Pile Foundation: Building	22.12	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-20 for double rim bored pile of 300 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock,excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	1113.00	217.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
756	Pile Foundation: Building	22.13	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-20 for double rim bored pile of 380 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock,excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	1619.00	313.00
757	Pile Foundation: Building	22.14	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-20 for double rim bored pile of 450 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock,excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	2238.00	436.00
758	Pile Foundation: Building	22.15	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-25 for double rim bored pile of 225 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock,excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by concrete prepared in reversible drum type concrete mixer by tremie arrangement, compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	814.00	143.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
759	Pile Foundation: Building	22.16	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-25 for double rim bored pile of 300 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by concrete prepared in reversible drum type concrete mixer by tremie arrangement, compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	1177.00	217.00
760	Pile Foundation: Building	22.17	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-25 for double rim bored pile of 380 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by concrete prepared in reversible drum type concrete mixer by tremie arrangement, compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	1735.00	313.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
761	Pile Foundation: Building	22.18	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-25 for double rim bored pile of 450 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by concrete prepared in reversible drum type concrete mixer by tremie arrangement, compaction of concrete including chipping and dressing etc. complete. concrete prepared in reversible drum type concrete mixer by tremie arrangement, compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	2417.00	436.00
762	Pile Foundation: Building	22.19	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-25 for double rim bored pile of 535 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock,excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by concrete prepared in reversible drum type concrete mixer by tremie arrangement, compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	3449.00	565.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
763	Pile Foundation: Building	22.20	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete M-25 for in situ double rim bored pile of 600 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by concrete prepared in reversible drum type concrete mixer by tremie arrangement, compaction of concrete including chipping and dressing etc. complete. concrete prepared in reversible drum type concrete mixer by tremie arrangement, compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	4456.00	694.00
764	Pile Foundation: Building	22.21	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 325 mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by concrete prepared by tremie arrangement, compaction of concrete including chipping and dressing etc. complete. concrete by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	2145.00	1082.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
765	Pile Foundation: Building	22.22	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 350mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	2225.00	1104.00
766	Pile Foundation: Building	22.23	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 400 mm diameter.or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	2393.00	1149.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
767	Pile Foundation: Building	22.24	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 425mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum <b>Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	2485.00	1173.00
768	Pile Foundation: Building	22.25	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 475mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	2722.00	1229.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
769	Pile Foundation: Building	22.26	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 500mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	3115.00	1418.00
770	Pile Foundation: Building	22.27	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 525 mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	3328.00	1449.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
771	Pile Foundation: Building	22.28	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 550 mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	3449.00	1481.00
772	Pile Foundation: Building	22.29	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 600 mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	3709.00	1551.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
773	Pile Foundation: Building	22.30	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 625 mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	4041.00	1588.00
774	Pile Foundation: Building	22.31	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 650 mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	4185.00	1627.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
775	Pile Foundation: Building	22.32	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 750 mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	4918.00	1798.00
776	Pile Foundation: Building	22.33	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 800 mm diameter. or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	5269.00	1892.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
777	Pile Foundation: Building	22.34	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 825 mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	5929.00	2165.00
778	Pile Foundation: Building	22.35	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 900 mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	6517.00	2323.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
779	Pile Foundation: Building	22.36	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 975 mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	7150.00	2493.00
780	Pile Foundation: Building	22.37	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 1000 mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	7375.00	2554.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
781	Pile Foundation: Building	22.38	Bd/B-4 P-270	Providing and laying cast in situ / Ready Mix Cement Concrete M-30 for bored piles each of load capacity and as per design and of 1050 mm diameter or as directed placed through steel shells sunk to the required depth through all strata except rock excluding provision of reinforcement as per detailed drawings and design approved by the Engineer-in- charge including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> by tremie arrangements, compaction of concrete including chipping and dressing and withdrawal of shell etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	7836.00	4019.00
782	Pile Foundation: Building	22.39	Bd/B-2 P-269	Chiseling through pile shells in hard strata like boulders, soft and hard rocks Upto and inclusive of 550 mm diameter including removing and stacking the loose materials etc. complete and disposing of the unserviceable materials outside complete.	As directed by Engineer in charge	Rig Hour	789.00	789.00
783	Pile Foundation: Building	22.40	Bd/B-2 P-269	Chiseling through pile shells in hard strata like boulders, soft and hard rocks Beyond 550 mm and upto and inclusive of 750 mm dia. including removing and stacking the loose materials etc. complete and disposing of the unserviceable materials outside complete.	As directed by Engineer in charge	Rig Hour	1051.00	1051.00
784	Pile Foundation: Building	22.41	Bd/B-2 P-269	Chiseling through pile shells in hard strata like boulders, soft and hard rocks Beyond 750 mm and upto and inclusive of 900 mm dia including removing and stacking the loose materials etc. complete and disposing of the unserviceable materials outside complete.	As directed by Engineer in charge	Rig Hour	1317.00	1317.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
785	Pile Foundation: Building	22.42	Bd/B-2 P-269	Chiseling through pile shells in hard strata like boulders, soft and hard rocks Beyond 900 mm and upto and inclusive of 1050 mm dia. including removing and stacking the loose materials etc. complete and disposing of the unserviceable materials outside complete.	As directed by Engineer in charge	Rig Hour	2077.00	2077.00
786	Pile Foundation: Building	22.43	Bd/B-8 P-271	Carrying out load test for 1.5 times the proposed safe working load on the pile in driven position upto 400 mm diameter including construction of test cap, use of accessories and instruments including providing graphs as per I.S. code or Std.Specifications and dismantling the test cap after testing and cleaning the site complete.	As directed by Engineer in charge	Number	89381.00	70366.00
787	Pile Foundation: Building	22.44	Bd/B-8 P-271	Carrying out load test for 1.5 times the proposed safe working load on the pile in driven position above 400 mm and upto to 550 mm diameter including construction of test cap, use of accessories and instruments including providing graphs as per I.S. code or Std.Specifications and dismantling the test cap after testing and cleaning the site complete.	As directed by Engineer in charge	Number	107396.00	88381.00
788	Pile Foundation: Building	22.45	Bd/B-8 P-271	Carrying out load test for 1.5 times the proposed safe working load on the pile in driven position above 550 mm and upto 650 mm diameter including construction of test cap, use of accessories and instruments including providing graphs as per I.S. code or Std.Specifications and dismantling the test cap after testing and cleaning the site complete.	As directed by Engineer in charge	Number	146475.00	127460.00
789	Pile Foundation: Building	22.46	Bd/B-8 P-271	Carrying out load test for 1.5 times the proposed safe working load on the pile in driven position above 650 mm and upto 750 mm diameter including construction of test cap, use of accessories and instruments including providing graphs as per I.S. code or Std.Specifications and dismantling the test cap after testing and cleaning the site complete.	As directed by Engineer in charge	Number	183090.00	164075.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
790	Pile Foundation: Building	22.47	Bd/B-8 P-271	Carrying out load test for 1.5 times the proposed safe working load on the pile in driven position above 750 mm and upto 825 mm diameter including construction of test cap, use of accessories and instruments including providing graphs as per I.S. code or Std.Specifications and dismantling the test cap after testing and cleaning the site complete.	As directed by Engineer in charge	Number	219753.00	197127.00
791	Pile Foundation: Building	22.48	Bd/B-8 P-271	Carrying out load test for 1.5 times the proposed safe working load on the pile in driven position above 825 mm and upto 900 mm diameter including construction of test cap, use of accessories and instruments including providing graphs as per I.S. code or Std.Specifications and dismantling the test cap after testing and cleaning the site complete.	As directed by Engineer in charge	Number	254489.00	231863.00
792	Pile Foundation: Building	22.49	Bd/B-8 P-271	Carrying out load test for 1.5 times the proposed safe working load on the pile in driven position above 900 mm diameter including construction of test cap, use of accessories and instruments including providing graphs as per I.S. code or Std.Specifications and dismantling the test cap after testing and cleaning the site complete.	As directed by Engineer in charge	Number	316432.00	293807.00
793	Pile Foundation: Building	22.50		Empty boring for 325 to 400 mm dia bored R.C.C. cast in situ piles including withdrawal of shell, removal of earth to a distance of 50 metres etc. complete. Spec :(As directed by Engineer in Charge) ☒	As directed by Engineer in charge	Running Metre	478.00	478.00
794	Pile Foundation: Building	22.51		Empty boring for 425 to 500 mm dia. bored R.C.C. cast in situ piles including withdrawal of shell, removal of earth to a distance of 50 metres etc. complete. Spec :(As directed by Engineer in Charge) ☒	As directed by Engineer in charge	Running Metre	553.00	553.00
795	Pile Foundation: Building	22.52		Empty boring for 525 to 600 mm dia. bored R.C.C. cast in situ piles including withdrawal of shell, removal of earth to a distance of 50 metres etc. complete. Spec :(As directed by Engineer in Charge) ☒	As directed by Engineer in charge	Running Metre	1102.00	1102.00
796	Pile Foundation: Building	22.53		Empty boring for 625 to 700 mm dia. bored R.C.C. cast in situ piles including withdrawal of shell, removal of earth to a distance of 50 metres etc. complete. Spec :(As directed by Engineer in Charge) ☒	As directed by Engineer in charge	Running Metre	1136.00	1136.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
797	Pile Foundation: Building	22.54		Empty boring for 725 to 1050 mm dia. bored R.C.C. cast in situ piles including withdrawal of shell, removal of earth to a distance of 50 metres etc. complete. Spec :(As directed by Engineer in Charge) ☐	As directed by Engineer in charge	Running Metre	1219.00	1219.00
798	Pile Foundation: Building	22.55		Chipping and dressing of the R.C.C. piles upto 0.60 meter including cleaning reinforcement and removal of dismantled materials upto a distance of 50 meter beyond the building area etc. for providing pile caps. Spec :(As directed by Engineer in Charge	As directed by Engineer in charge	Number	597.00	597.00
799	Pile Foundation: Building	22.56		Providing bentonite slurry process for various diameter of piles vide Item Nos 1 (i to xxiv) above. Spec : (As directed by Engineer in Charge)	As directed by Engineer in charge	Running Metre	66.00	24.00
800	Pile Foundation: Building	22.57		Providing placing and Driving in position 6 millimeter mild steel liner for R.C.C. Piles upto required depth with 12mm thick mild steel cutting edge of 0.50m length at bottom including fabricating cutting the mild steel sheet to required diameter and shape ,welding the joints and driving with the help of required machineries including all materials labours and lifts etc. complete as directed by the Engineer in charge. Upto 3.00 meter deep liner	As directed by Engineer in charge	Metric Tonne	72796.00	16767.00
801	Pile Foundation: Building	22.58		Providing placing and Driving in position 6 millimeter mild steel liner for R.C.C. Piles upto required depth with 12mm thick mild steel cutting edge of 0.50m length at bottom including fabricating cutting the mild steel sheet to required diameter and shape ,welding the joints and driving with the help of required machineries including all materials labours and lifts etc. complete as directed by the Engineer in charge. Spec :(As directed by Engineer in Charge From 3.00 to 9.50 meter deep liner	As directed by Engineer in charge	Metric Tonne	75858.00	19829.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
802	Pile Foundation: Building	22.59		Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap metal for R.C.C. pile caps as per detailed designs and drawings, including bailing out water manually, centering, formwork, laying/pumping, compacting, finishing and curing etc. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand, complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Cubic Metre	5903.00	1730.00
803	Pile Foundation: Building	22.60		Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap metal for R.C.C. pile caps as per detailed designs and drawings, including bailing out water manually, centering, formwork, laying/pumping, compacting, finishing and curing etc. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand, complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Cubic Metre	6073.00	1730.00
804	Pile Foundation: Building	22.61		Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap metal for R.C.C. pile caps as per detailed designs and drawings, including bailing out water manually, centering, formwork, laying/pumping, compacting, finishing and curing etc. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b> complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Cubic Metre	6221.00	1730.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
805	Structural Steel Work	23.01	BDC 2	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.	Bd.C.2 Page No. 275	Metric Tonne	73844.00	12733.00
806	Structural Steel Work	23.02	BDC 3	Providing and fabricating structural steel work in rolled sections, fixed with connecting plates or angle cleats in main and cross beams, hip and jack rafters, purlins connecting to truss members and the like, as per detailed designs and drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/ bolted/ welded connections and one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.	Bd.C.3 Page No. 275	Metric Tonne	70576.00	11609.00
807	Structural Steel Work	23.03	BDC 6	Providing structural steel work in single stanchions composed of R.S.J. Channel etc. with caps, bases, mild steel plated, angle brackets, cleats, gusset plates, anchor bolts etc. as per detailed designs and drawings or as directed including cutting, fabrication, hoisting, erecting fixing in position, making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it two. coats of oil painting approved quality and shade etc. complete.	Bd.C.6 Page No. 277	Metric Tonne	70819.00	11304.00
808	Structural Steel Work	23.04	BDC 8	Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete.	Bd.C.8 Page No. 278	Metric Tonne	87744.00	27031.00
809	Structural Steel Work	23.05	BDC	Providing and fixing 50 mm. dia. medium class G.I.pipe gate with wicket gate of approved drawing with all fixtures and fittings in two leaves with strong hold fast embedded in c.c. block at top and bottom with locking arrangement including cutting, bending, making holes and with one coat of primer etc. complete.	As directed by Engineer in charge.	Square Metre	5837.00	3117.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
810	Structural Steel Work	23.06	BDC	Providing and erecting structural steel for sakav with all bracing gusset plates etc. as per detailed design and drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/ bolted/welded connection and oil painting with 2 coats of approved quality and shade etc. complete. complete.	As directed by Engineer in charge.	Metric Tonne	91817.00	29885.00
811	Structural Steel Work	23.07	BDC	Providing, fabricating and erecting at site of work the tubular steel structure (shed) as per standard design and specifications having various spans in between trusses and in multiples of standard length of bays as specified as per standard specifications, inclusive of cost of steel tubular trusses, tubular columns purlins, tie runners, foundation bolts, base plates, nuts and bolts, welding wherever required etc. as per detailed drawing inclusive of one coat of anticorrosive paint and two coats of oil painting of approved quality and shade etc. complete. Spec. No. : As directed by Engineer-in-charge.	B-18 Page No. 78	Metric Tonne	82972.00	18006.00
812	Structural Steel Work	23.08	BDC	Providing Gas or Electrical welding for structural steel section, plates as per detailed drawing. For less than 10 mm thick section.	B.18, Page No 78	Centimetre	9.00	6.00
813	Structural Steel Work	23.09	BDW 6A	Providing and fixing mild steel grill gate as per the detailed drawing including hinges, locking arrangements and painting in three coats of oil paint of approved colour and shade etc. complete.(weight 18 kg. to 20 kg. Per Sq.m.) Spec.No.: As directed by Engineer- in-charge.	Spec. No. As directed by Engineer in Charge.	Square Metre	1529.00	212.00
814	Structural Steel Work	23.11		Providing structural steel work of rectangular hollow steel section for steel trusses, other similar trussed items like purlin and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted/bolted/ welded connections and one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade complete. Spec. No. : As directed by Engineer-in-charge.	Spec. No. As directed by Engineer in Charge.	Metric Tonne	88039.00	18006.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
815	Structural Steel Work	23.12		Providing structural steel work in hollow section of various thickness and sizes in square, rectangular and round shape from 25mm to 450mm section as per IS 4923 YST 310 Grade produced from iron ore and blast furnace route etc. as per detailed designs and drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/bolted/ welded connections and painting complete.	Spec. No. As directed by Engineer in Charge.	Metric Tonne	95149.00	18006.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
816	Plain Cement Concrete	24.01	BDE 1	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd. E. 1 Page No. 287	Cubic Metre	4766.00	1300.00
817	Plain Cement Concrete	24.04	BDE 2	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for steps including steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface, only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.),with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.E.2 Page No. 288 and B.7 Page No 38	Cubic Metre	5179.00	1300.00
818	Plain Cement Concrete	24.06	BDE 2	Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap/ granite/quartzite/gneiss metal for steps including steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface, only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.E.2 Page No. 288 and B.7 Page No 38	Cubic Metre	5456.00	1300.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
819	Plain Cement Concrete	24.08	BDE 4	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.E.4 Page No. 289 and B-7, Page No.38	Cubic Metre	5179.00	1300.00
820	Plain Cement Concrete	24.10	BDE 4	Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.E.4 Page No. 289 and B-7, Page No.38	Cubic Metre	5456.00	1300.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
821	Plain Cement Concrete	24.12	BDE 7	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / granite /quartzite/ gneiss metal for arches including skew backs as per detailed drawing or as directed in superstructure including steel centering, formwork, compacting, finishing with minimum thickness of 1:3 cement plaster to give a smooth and even surface or roughening them if special finish is to be provided and curing and finishing if required complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer. complete, . <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.E.7 Page No 291 and B-7 Page No .38	Cubic Metre	9357.00	2870.00
822	Plain Cement Concrete	24.14	BDE 5	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for plain or molded sills, cornice, jambs, block in course, or architraves of required size and shapes including steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided,finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.E. 5/Page No. 290/I.S. 456 (2000)	Cubic Metre	5179.00	1300.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
823	Plain Cement Concrete	24.15	BDE 5	Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap/ granite/quartzite/gneiss metal for plain or molded sills, cornice, jambs, block in course, or architraves of required size and shapes including steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided,finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer etc. complete, <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.E. 5/Page No. 290/I.S. 456 (2000)	Cubic Metre	5456.00	1300.00
824	Plain Cement Concrete	24.16	BDE 3	Providing and laying Cast in situ/Ready Mix cement concrete M-15 of trap/ granite/quartzite/gneiss metal for coping to plinth or parapet, moulded or chamfered as per drawing or as directed including steel centering, plywood/ steel formwork compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.) <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.E. 3/Page No. 288/I.S. 456 (2000)	Cubic Metre	5179.00	1300.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
825	Reinforced Cement Concrete	25.11	BDF 3	Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.3 Page No. 298 and B.7, Page No.38	Cubic Metre	5704.00	1692.00
826	Reinforced Cement Concrete	25.13	BDF 3	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering, formwork ,cover blocks, laying/pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.3 Page No. 298 and B.7, Page No.38	Cubic Metre	<b>5846.00</b>	1692.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
827	Reinforced Cement Concrete	25.15	BDF 3	Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. columns as per detailed designs and drawing or as directed including Steel centering formwork, cover blocks laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.3 Page No. 298 and B.7, Page No.38	Cubic Metre	5989.00	1692.00
828	Reinforced Cement Concrete	25.17	BDF 3	Providing and laying Cast in situ/Ready Mix cement concrete M-35 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. columns as per detailed designs and drawing or as directed including Steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.3 Page No. 298 and B.7, Page No.38	Cubic Metre	6060.00	1692.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
829	Reinforced Cement Concrete	25.19	BDF 3	Providing and laying Cast in situ/Ready Mix cement concrete M-40 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.3 Page No. 298 and B.7, Page No.38	Cubic Metre	6245.00	1692.00
830	Reinforced Cement Concrete	25.31	BDF 5	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.5 Page No. 300 and B.7, Page.No. 38	Cubic Metre	11252.00	4288.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
831	Reinforced Cement Concrete	25.33	BDF 5	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.5 Page No. 300 and B-7,Page No 38.	Cubic Metre	11394.00	4288.00
832	Reinforced Cement Concrete	25.35	BDF 5	Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork,cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.5 Page No. 300 and B.7, Page.No. 38	Cubic Metre	11536.00	4288.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
833	Reinforced Cement Concrete	25.37	BDF 5	Providing and laying Cast in situ/Ready Mix cement concrete M-35 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC without SCAD Aenabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.5 Page No. 300 and B.7, Page.No. 38	Cubic Metre	11608.00	4288.00
834	Reinforced Cement Concrete	25.39	BDF 5	Providing and laying Cast in situ/Ready Mix cement concrete M-40 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.5 Page No. 300 and B.7, Page.No. 38	Cubic Metre	11679.00	4288.00
835	Reinforced Cement Concrete	25.50	BDF 6	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compactionand roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.6 Page No. 300 and B.7, Page No.38	Cubic Metre	9908.00	4104.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
836	Reinforced Cement Concrete	25.52	BDF 6	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.6 Page No. 300 and B.7, Page No.38	Cubic Metre	10050.00	4104.00
837	Reinforced Cement Concrete	25.54	BDF 6	Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.6 Page No. 300 and B.7, Page No.38	Cubic Metre	10193.00	4104.00
838	Reinforced Cement Concrete	25.56	BDF 6	Providing and laying Cast in situ/Ready Mix cement concrete M-35 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.6 Page No. 300 and B.7, Page No.38	Cubic Metre	10264.00	4104.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
839	Reinforced Cement Concrete	25.58	BDF 6	Providing and laying Cast in situ/Ready Mix cement concrete M-40 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.6 Page No. 300 and B.7, Page No.38	Cubic Metre	10478.00	4104.00
840	Reinforced Cement Concrete	25.70	BDF 8	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.8 Page No. 302 and B.7, Page No.38	Cubic Metre	12037.00	4788.00
841	Reinforced Cement Concrete	25.72	BDF 8	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.8 Page No. 302 and B.7, Page No.38	Cubic Metre	12181.00	4788.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
842	Reinforced Cement Concrete	25.74	BDF 8	Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.8 Page No. 302 and B.7, Page No.38	Cubic Metre	12324.00	4788.00
843	Reinforced Cement Concrete	25.76	BDF 8	Providing and laying Cast in situ/Ready Mix cement concrete M-35 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.8 Page No. 302 and B.7, Page No.38	Cubic Metre	12396.00	4788.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
844	Reinforced Cement Concrete	25.78	BDF 8	Providing and laying Cast in situ/Ready Mix cement concrete M-40 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.8 Page No. 302 and B.7, Page No.38	Cubic Metre	12612.00	4788.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
845	Reinforced Cement Concrete	26.05	BDF 9	Providing and laying Cast in situ/Ready Mixcement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.9 Page No. 303 and B.7, Page No.38	Cubic Metre	11199.00	4788.00
846	Reinforced Cement Concrete	26.07	BDF 9	Providing and laying Cast in situ/Ready Mixcement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.9 Page No. 303 and B.7, Page No.38	Cubic Metre	11343.00	4788.00
847	Reinforced Cement Concrete	26.09	BDF10	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite / quartzite / gneiss metal for R.C.C. canopy as per detailed designs and drawings including steel centering, formwork, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing etc. complete (excluding reinforcement), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.8 Page No. 303 and B.7, Page No.38	Cubic Metre	11199.00	4788.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
848	Reinforced Cement Concrete	26.11	BDF10	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. canopy as per detailed designs and drawings including steel centering, formwork, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing etc. complete (excluding reinforcement). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.8 Page No. 303 and B.7, Page No.38	Cubic Metre	11343.00	4788.00
849	Reinforced Cement Concrete	26.17	BDF 11	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting , curing , finishing and rougheningthem if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.11 Page No. 304 and B.7, Page No. 38	Cubic Metre	12663.00	5930.00
850	Reinforced Cement Concrete	26.19	BDF 11	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.11 Page No. 304 and B.7, Page No. 38	Cubic Metre	12806.00	5930.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
851	Reinforced Cement Concrete	26.23	BDF 12	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C.coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, cover blocks, laying/pumping, compacting , curing , finishing and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd. F. 12 Page No. 304 and B-7, Pg 38	Cubic Metre	5817.00	1760.00
852	Reinforced Cement Concrete	26.25	BDF 13A	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / quartzite /granite /gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directed including steel centering, formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding einforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd. F. 13 Page No. 305 /I.S. 456 (2000)	Cubic Metre	11827.00	5027.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
853	Reinforced Cement Concrete	26.26	BDF 13A	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap / quartzite /granite /gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directed including steel centering, plywood/ steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding einforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd. F. 13 Page No. 305 /I.S. 456 (2000)	Cubic Metre	11971.00	5027.00
854	Reinforced Cement Concrete	26.27	BDF 14A	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / quartzite /granite /gneiss metal for R.C.C.newel posts of staircase as per detailed design and drawings including steel centering, plywood / steel formwork, steel props, laying / pumping, compaction, finishing uneven and honeycombed surface with C.M.1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement, including cover block). (Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd. F. 14 Page No. 305 /I.S. 456 (2001)	Cubic Metre	10298.00	3887.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
855	Reinforced Cement Concrete	26.28	BDF 14A	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap / quartzite /granite /gneiss metal for R.C.C.newel posts of staircase as per detailed design and drawings including steel centering, plywood / steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M.1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement, including cover block). (Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd. F. 14 Page No. 305 /I.S. 456 (2002)	Cubic Metre	10442.00	3887.00
856	Reinforced Cement Concrete	26.29	BDF 15A	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap /granite / gneiss/ quartzite metal for R.C.C. arches with skew backs as per detailed design and drawings or as directed including steel centering, plywood/steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement, including cover block). Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd. F. 15 Page No. 306 /I.S. 456 (2003)	Cubic Metre	11365.00	4314.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
857	Reinforced Cement Concrete	26.30	BDF 15A	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap /granite / gneiss/ quartzite metal for R.C.C. arches with skew backs as per detailed design and drawings or as directed including steel centering, plywood/steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement, including cover block). Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed) <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd. F. 15 Page No. 306 /I.S. 456 (2003)	Cubic Metre	11508.00	4362.00
858	Reinforced Cement Concrete	26.31	BDF 16	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / granite /gneiss / quartzite metal for R.C.C. fins of required thickness in position as shown on the drawings or as directed by Engineer-in-charge including steel centering, plywood / steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement, including cover block) Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd. F. 16 Page No. 306 /I.S. 456 (2004)	Cubic Metre	11842.00	4073.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
859	Reinforced Cement Concrete	26.32	BDF 16	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap / granite /gneiss / quartzite metal for R.C.C. fins of required thickness in position as shown on the drawings or as directed by Engineer-in-charge including steel centering, plywood / steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement, including cover block) Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd. F. 16 Page No. 306 /I.S. 456 (2004)	Cubic Metre	11987.00	4073.00
860	Reinforced Cement Concrete	26.33	BDF 17	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.	Bd.F.17, Page No. 306	Metric Tonne	62581.00	9322.00
861	Reinforced Cement Concrete	26.34	BDF 17	Providing and fixing in position HCRM / CRS (Corrosion Resistant Steel) bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.	Bd.F.17, Page No. 306	Metric Tonne	66174.00	9322.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.		
862	Reinforced Cement Concrete	26.36		Providing and applying Anti corrosive treatment to reinforcement as per cement polymer composite coating (C.P.C.C.) method developed by C.E.C.R.I. including cleaning the bar by means of any established mechanical or manual method for removing rust and deleterious material, applying rapid setting primer and cement polymer sealing coat of approved and licensed by CECRI including redoing the process if damage occurs during handling, stacking etc. complete. (With prior approval of SE)	As directed by Engineer in Charge	Metric Tonne	9095.00	5163.00		
863	Reinforced Cement Concrete	26.37	MORT and H 1600 Edition 2001.	<p>Providing Fusion Bonded Epoxy Coating (FBEC) to reinforced bars of 8mm diameter as per IS: 13620-1993 specifications for a thickness of 175micron Permissible variation of 50 micron including testing of coating at plant, including cost for careful handling using PVC coating, binding wires instead of G. I. wires to and from Plant) touching up the material supplied repair work etc complete as per detailed specifications. (Lead 200km from plant) etc complete. (Item shall be used for new structures.)</p> <p>Note : The item should be executed with prior approval of Superintending Engineer.</p> <p>FREQUENCY OF TEST OF FUSION BONDED EPOXY COAT</p> <p>a) Coating thickness shall be tested at a frequency of not less than one full length bar every twenty bars for each size</p> <p>b) continuity of coating shall be determined by testing one full length bar in every twenty bars for each size</p> <p>c) Coating thickness over the whole of the coated bar section shall be determined by sectioning and examining one bar in every twenty tonnes for each size.</p> <p>d) For testing adhesion of coating, samples shall be selected from each size according to the frequency given below:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Nominal Size of Bar, MM</td> <td style="width: 50%;">No. of Samples</td> </tr> </table> <p>For all types of bar : Minimum 1 for every diameter or as directed by engineer in charge</p> <p style="text-align: center;">□</p>	Nominal Size of Bar, MM	No. of Samples	As directed by Engineer in Charge	Metric Tonne	17761.00	815.00
Nominal Size of Bar, MM	No. of Samples									

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
864	Reinforced Cement Concrete	26.38	MORT and H 1600 Edition 2001.	<p>Providing Fusion Bonded Epoxy Coating (FBEC) to reinforced bars of 10mm diameter as per IS: 13620-1993 specifications for a thickness of 175micron Permissible variation of 50 micron including testing of coating at plant, including cost for careful handling using PVC coating, binding wires instead of G. I. wires to and from Plant) touching up the material supplied repair work etc complete as per detailed specifications. (Lead 200km from plant) etc complete. (Item shall be used for new structures.)</p> <p>Note : The item should be executed with prior approval of Superintending Engineer.</p> <p>FREQUENCY OF TEST OF FUSION BONDED EPOXY COAT</p> <p>a) Coating thickness shall be tested at a frequency of not less than one full length bar every twenty bars for each size</p> <p>b) continuity of coating shall be determined by testing one full length bar in every twenty bars for each size</p> <p>c) Coating thickness over the whole of the coated bar section shall be determined by sectioning and examining one bar in every twenty tonnes for each size.</p> <p>d) For testing adhesion of coating, samples shall be selected from each size according to the frequency given below:</p> <p>For all types of bar : Minimum 1 for every diameter or as directed by engineer in charge ☐</p>	As directed by Engineer in Charge	Metric Tonne	14162.00	815.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
865	Reinforced Cement Concrete	26.39	MORT and H 1600 Edition 2001.	<p>Providing Fusion Bonded Epoxy Coating (FBEC) to reinforced bars of 12mm diameter as per IS: 13620-1993 specifications for a thickness of 175micron Permissible variation of 50 micron including testing of coating at plant, including cost for careful handling using PVC coating, binding wires instead of G. I. wires to and from Plant) touching up the material supplied repair work etc complete as per detailed specifications. (Lead 200km from plant) etc complete. (Item shall be used for new structures.)</p> <p>Note : The item should be executed with prior approval of Superintending Engineer.</p> <p>FREQUENCY OF TEST OF FUSION BONDED EPOXY COAT</p> <p>a) Coating thickness shall be tested at a frequency of not less than one full length bar every twenty bars for each size</p> <p>b) continuity of coating shall be determined by testing one full length bar in every twenty bars for each size</p> <p>c) Coating thickness over the whole of the coated bar section shall be determined by sectioning and examining one bar in every twenty tonnes for each size.</p> <p>d) For testing adhesion of coating, samples shall be selected from each size according to the frequency given below: For all types of bar : Minimum 1 for every diameter or as directed by engineer in charge</p>	As directed by Engineer in Charge	Metric Tonne	12213.00	815.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
866	Reinforced Cement Concrete	26.40	MORT and H 1600 Edition 2001.	<p>Providing Fusion Bonded Epoxy Coating (FBEC) to reinforced bars of 16mm diameter as per IS: 13620-1993 specifications for a thickness of 175micron Permissible variation of 50 micron including testing of coating at plant, including cost for careful handling using PVC coating, binding wires instead of G. I. wires to and from Plant) touching up the material supplied repair work etc complete as per detailed specifications. (Lead 200km from plant) etc complete. (Item shall be used for new structures.)</p> <p>Note : The item should be executed with prior approval of Superintending Engineer.</p> <p>FREQUENCY OF TEST OF FUSION BONDED EPOXY COAT</p> <p>a) Coating thickness shall be tested at a frequency of not less than one full length bar every twenty bars for each size</p> <p>b) continuity of coating shall be determined by testing one full length bar in every twenty bars for each size</p> <p>c) Coating thickness over the whole of the coated bar section shall be determined by sectioning and examining one bar in every twenty tonnes for each size.</p> <p>d) For testing adhesion of coating, samples shall be selected from each size according to the frequency given below:</p> <p>For all types of bar : Minimum 1 for every diameter or as directed by engineer in charge</p>	As directed by Engineer in Charge	Metric Tonne	9524.00	815.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
867	Reinforced Cement Concrete	26.41	MORT and H 1600 Edition 2001.	<p>Providing Fusion Bonded Epoxy Coating (FBEC) to reinforced bars of 20mm diameter as per IS: 13620-1993 specifications for a thickness of 175micron Permissible variation of 50 micron including testing of coating at plant, including cost for careful handling using PVC coating, binding wires instead of G. I. wires to and from Plant) touching up the material supplied repair work etc complete as per detailed specifications. (Lead 200km from plant) etc complete. (Item shall be used for new structures.)</p> <p>Note : The item should be executed with prior approval of Superintending Engineer.</p> <p>FREQUENCY OF TEST OF FUSION BONDED EPOXY COAT</p> <p>a) Coating thickness shall be tested at a frequency of not less than one full length bar every twenty bars for each size</p> <p>b) continuity of coating shall be determined by testing one full length bar in every twenty bars for each size</p> <p>c) Coating thickness over the whole of the coated bar section shall be determined by sectioning and examining one bar in every twenty tonnes for each size.</p> <p>d) For testing adhesion of coating, samples shall be selected from each size according to the frequency given below: For all types of bar : Minimum 1 for every diameter or as directed by engineer in charge</p>	As directed by Engineer in Charge	Metric Tonne	7915.00	815.00
868	Reinforced Cement Concrete	26.42	MORT and H 1600 Edition 2001.	<p>Providing Fusion Bonded Epoxy Coating (FBEC) to reinforced bars of 25mm diameter as per IS: 13620-1993 specifications for a thickness of 175micron Permissible variation of 50 micron including testing of coating at plant extra cost for careful handling using PVC coating, binding wires instead of G. I. wires to and from Plant) touching up the material supplied repair work etc complete as per detailed specifications. (Lead 200km from plant) etc complete. (Item shall be used for new structures.)</p> <p>Note : The item should be executed with prior approval of Superintending Engineer.</p> <p>charge</p>	As directed by Engineer in Charge	Metric Tonne	6644.00	815.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
869	Reinforced Cement Concrete	26.44	MORT and H 1600 Edition 2001.	<p>Providing Fusion Bonded Epoxy Coating (FBEC) to reinforced bars of 32mm diameter as per IS: 13620-1993 specifications for a thickness of 175micron Permissible variation of 50 micron including testing of coating at plant extra cost for careful handling using PVC coating, binding wires instead of G. I. wires to and from Plant) touching up the material supplied repair work etc complete as per detailed specifications. (Lead 200km from plant) etc complete. (Item shall be used for new structures.)</p> <p>Note : The item should be executed with prior approval of Superintending Engineer.</p> <p>FREQUENCY OF TEST OF FUSION BONDED EPOXY COAT</p> <p>a) Coating thickness shall be tested at a frequency of not less than one full length bar every twenty bars for each size</p> <p>b) continuity of coating shall be determined by testing one full length bar in every twenty bars for each size</p> <p>c) Coating thickness over the whole of the coated bar section shall be determined by sectioning and examining one bar in every twenty tonnes for each size.</p> <p>d) For testing adhesion of coating, samples shall be selected from each size according to the frequency given below:</p> <p>For all types of bar : Minimum 1 for every diameter or as directed by engineer in charge</p>	As directed by Engineer in Charge	Metric Tonne	5480.00	815.00
870	Reinforced Cement Concrete	26.46	BDF 20	Providing and fixing in position after hoisting, precast 1:2 cement mortar reinforced jali 50 mm thick with 3 mm diameter mild steel bar reinforcement, of approved design on both side, fixing in cement mortar 1:3 and curing etc. complete	Bd. F. 20 Page No. 307	Square Metre	780.00	126.00
871	Reinforced Cement Concrete	26.47	BDF 20	Providing and fixing in position after hoisting, precast 1:2 cement mortar reinforced jali 80 mm thick with 3 mm diameter mild steel bar reinforcement, of approved design on both sides, fixing in cement mortar 1:3 and curing etc .complete.	Bd. F. 20 Page No. 308	Square Metre	1044.00	126.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
872	Reinforced Cement Concrete	26.58	BDF 41	Providing and laying Cast in situ/Ready Mix C.C. M-20 of trap metal for RCC rectangular grid beam with slab as per detailed design and drawing, steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them to form surface with C.M. 1:3 of sufficient minimum thickness to give smooth and even surface or roughening them if special finish is to be provided and curing complete (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.6, Page No.300 / Bd.F.8, Page No.302 and B.7 Page No. 38.	Cubic Metre	12127.00	5716.00
873	Reinforced Cement Concrete	26.60	BDF 41	Providing and laying Cast in situ/Ready Mix C.C. M-25 of trap metal for RCC rectangular grid beam with slab as per detailed design and drawing or as directed including dewatering if necessary, steel centering, formwork, cover blocks, laying/pumping, compacting, finishing the form surface with C.M. 1:3 of sufficient minimum thickness to give smooth and even surface or roughening them if special finish is to be provided and curing complete (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.6, Page No.300 / Bd.F.8, Page No.302 and B.7 Page No. 38.	Cubic Metre	12271.00	5716.00
874	Reinforced Cement Concrete	26.62	BDF 41	Providing and laying Cast in situ/Ready Mix C.C. M-30 of trap metal for RCC rectangular grid beam with slab as per detailed design and drawing or as directed including dewatering if necessary, steel centering, formwork, cover blocks, laying/pumping, compacting , curing , finishing and roughening them to form surface with C.M. 1:3 of sufficient minimum thickness to give smooth and even surface or roughening them if special finish is to be provided and curing complete (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant (pan mixer). <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.F.6, Page No.300 / Bd.F.8, Page No.302 and B.7 Page No. 38.	Cubic Metre	12415.00	5716.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
875	Reinforced Cement Concrete	26.64	BDF	Providing and laying Cast in situ/Ready Mix C.C. M-35 of trap metal for RCC rectangular grid beam with slab as per detailed design and drawing or as directed including dewatering if necessary, steel centering, formwork, cover blocks, laying/pumping, compacting, finishing the form surface with C.M. 1:3 of sufficient minimum thickness to give smooth and even surface or roughening them if special finish is to be provided and curing complete (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.E.2 Page No. 288 and B.7 Page No 38	Cubic Metre	12484.00	5716.00
876	Reinforced Cement Concrete	26.66	BDF 41	Providing and laying Cast in situ/Ready Mix C.C. M-40 of trap metal for RCC rectangular grid beam with slab as per detailed design and drawing or as directed including dewatering if necessary, steel centering, formwork, cover blocks, laying/pumping, compacting, finishing the form surface with C.M. 1:3 of sufficient minimum thickness to give smooth and even surface or roughening them if special finish is to be provided and curing complete (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. <b>With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)</b>	Bd.E.4 Page No. 289 and B-7, Page No.38	Cubic Metre	12702.00	5716.00
877	Reinforced Cement Concrete	26.68	BDF	Providing and fixing during laying in RCC Slab rectangular 2 mm thick M.S. sheet fan hook box of size 180x100 mm with required depth with holes or notches as required, bottom and top sides of 1.6 mm M.S. sheet fixed with 3.5 mm dia. round headed screws together with 12 mm dia. M.S. bar bent to shape with hooked ends for fan hook and painting to exposed surface	As directed by Engineer in charge	Number	391.00	24.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
878	Brick Masonry	27.01	BDG 1	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.	Bd.G. 1 Page No. 313	Cubic Metre	5820.00	1268.00
879	Brick Masonry	27.02	BDG 2	Providing first class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in plinth including bailing out water manually, striking joints on unexposed faces, pointing with cement mortar 1:3 on exposed face and watering etc. Complete.	Bd.G.2 Page No. 313	Cubic Metre	5999.00	1388.00
880	Brick Masonry	27.03	BDG 3	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in plinth as backing in composite masonry including bailing out water manually, striking joints, raking out joints and watering etc Complete.	Bd.G.3 Page No. 314	Cubic Metre	5628.00	1075.00
881	Brick Masonry	27.05	BDG 5	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	Bd.G.5 Page No. 315	Cubic Metre	6004.00	1360.00
882	Brick Masonry	27.06	BDG 7	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:4 in half brick thick wall including mild steel longitudinal reinforcement of 2 bars of 6 mm diameter / 2 hoop iron strips 25 mm X 1.6 mm placed at every third course, properly bent and bonded at ends scaffolding, racking out joints and watering etc. complete.	Bd.G.7 Page No. 316	Square Metre	815.00	162.00
883	Brick Masonry	27.07	BDG 8	Providing Burnt Brick-on-edge masonry with second class bricks of conventional type bricks in cement mortar 1:3 including mild steel longitudinal reinforcement of 2 bars of 6mm diameter / one strips of hoop iron 25 mm X 1.6 mm placed at every third course, properly bent and bonded at ends, scaffolding, raking out joints and watering etc .complete.	Bd.G.8 Page No. 317	Square Metre	596.00	141.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
884	Brick Masonry	27.08	BDG 9	Providing first class Burnt Brick masonry with conventional / I.S. type bricks in cement mortar 1:4 including scaffolding, racking out joints pointing in C.M. 1:3 and watering in pillars of rectangular or square shape as shown on the drawing or as directed etc.complete.	Bd.G.9 (a) Page No. 317	Cubic Metre	7260.00	2158.00
885	Brick Masonry	27.09	BDG 9	Providing first class Brick masonry with conventional / IS. type bricks in cement mortar 1:4 including scaffolding, racking out joints pointing in C.M 1:3 and watering etc. in pillars of curved shapes, as shown on the drawing or as directed etc. complete.	Bd.G.9 (b) Page No. 317	Cubic Metre	8565.00	2322.00
886	Brick Masonry	27.10	BDG 10	Providing second class Burnt Brick masonry with conventional / I.S. type bricks in cement mortar 1:4 including scaffolding, racking out joints and watering etc. in pillar of rectangular shapes as shown in the drawings or as directed complete.	Bd.G.10 (a) Page No. 318	Cubic Metre	6374.00	1569.00
887	Brick Masonry	27.11	BDG 10	Providing second class Burnt Brick masonry with conventional / I.S. type bricks in cement mortar 1:4 including scaffolding, racking out joints and watering etc.in pillar of curved shapes as shown in the drawing or as directed complete.	Bd.G.10 (b) Page No. 318	Cubic Metre	7571.00	1711.00
888	Brick Masonry	27.12	BDG	Providing fly ash brick masonry with conventional / I.S. type fly ash bricks in C.M. 1:6 in foundation and plinth including bailing out water manually striking joints, racking out joints watering and scaffolding etc. complete.	As director by engineer in charge and BDG- 2 and 5	Cubic Metre	5240.00	1268.00
889	Brick Masonry	27.13	BDG	Providing fly ash brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	As director by engineer incharge and BDG- 2 and 5	Cubic Metre	5412.00	1360.00
890	Brick Masonry	27.14	BDG	Providing Second class fly ash brick masonry with conventional / I.S. type bricks in cement mortar 1:4 in half brick thick wall including mild steel longitudinal reinforcement of two bars of 6 mm diameter / two hoop iron strips 25 mm x 1.60 mm at every third course, properly bent and bounded at ends scaffolding raking out joints and watering etc. complete.	Bd. G. 7 Page 316	Square Metre	744.00	162.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
891	Brick Masonry	27.15	BDG	Providing Autoclaved Aerated Concrete Block masonry of Ecolite or equivalent make conforming to IS:2185 (Part 3) - 1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete. (The test shall be carried out conforming to IS:6441 (Part I) - 1972)	As directed by engineer in charge	Cubic Metre	6119.00	1662.00
892	Brick Masonry	27.16	BDG	Providing Autoclaved Aerated Concrete Block masonry of Ecolite or equivalent make conforming to IS:2185 (Part 3) - 1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in Half brick thick wall including striking joints, raking out joints and scaffolding etc. Complete. (The test shall be carried out conforming to IS:6441 (Part I) - 1972)	As directed by engineer in charge	Square Metre	855.00	137.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
893	Stone Masonry	28.01	BDH 1	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually , striking joints on un exposed faces and watering etc.complete.	Bd.H.1 Page No. 329	Cubic Metre	4043.00	2008.00
894	Stone Masonry	28.02	BDH 2	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:5 in basements including scaffolding, bailing out water manually, racking out joints when plastering is to be done striking joints where no pointing or plastering is to be done and watering etc.complete.	Bd.H.2 Page No. 329	Cubic Metre	4147.00	2008.00
895	Stone Masonry	28.03	BDH 3	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stone in cement mortar 1:3 in basement with patent water proofing compound added to it at rate of 1 kg per bag of cement including bailing out water manually, scaffolding racking out joints when plastering is to be done and watering etc. complete.	Bd.H.3 Page No. 331	Cubic Metre	4387.00	1689.00
896	Stone Masonry	28.04	BDH 4	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in superstructure including racking out joints when plastering is to be done / striking joints when no plastering is to be done on inside watering and scaffolding etc.complete.	Bd.H.4 Page No. 331	Cubic Metre	4450.00	2415.00
897	Stone Masonry	28.05	BDH 5	Providing random rubble masonry second sort of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in plinth including bailing out water manually , striking joints on unexposed faces. (Excluding pointing) etc.complete.	Bd.H.5 Page No. 331	Cubic Metre	3816.00	2068.00
898	Stone Masonry	28.06	BDH 6	Providing random rubble masonry second sort of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in superstructure racking out joints when plastering is to be done / striking joints when no pointing or plastering is to be done on the inside watering and scaffolding etc.complete.	Bd.H.6 Page No. 332	Cubic Metre	4361.00	2303.00
899	Stone Masonry	28.07	BDH 7	Providing random rubble masonry first sort of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in external walls of plinth including bailing out water manually , racking out joints when pointing is to be done and striking joints from inside including watering etc.complete.	Bd.H.7 Page No. 332	Cubic Metre	4771.00	2713.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
900	Stone Masonry	28.08	BDH 8	Providing random rubble masonry first sort of trap /granite / quartzite / gneiss stones in cement mortar 1:6 in superstructure including bailing out water manually ,raking out joints from outside and striking joints when no pointing or plastering is to be done from inside watering and scaffolding etc.complete.	Bd.H.8 Page No. 332	Cubic Metre	5050.00	2971.00
901	Stone Masonry	28.09	BDH 11	Providing coursed rubble masonry second sort of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in external walls of plinth including bailing out water manually , striking joints inside and raking out joints from outside and watering etc.complete	Bd. H.11 Page No. 333	Cubic Metre	9525.00	2567.00
902	Stone Masonry	28.10	BDH 12	Providing coursed rubble masonry second sort of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in superstructure including raking out joints when plastering is to be done and striking joints when no plastering is to be done on the inside, watering scaffolding etc.complete.	Bd.H.12 Page No. 333	Cubic Metre	10006.00	2979.00
903	Stone Masonry	28.11	BDH 13	Providing coursed rubble masonry first sort of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in external work of plinth including bailing out water manually, striking joints inside and watering etc.complete.	Bd.H.13 Page No. 333	Cubic Metre	10104.00	3146.00
904	Stone Masonry	28.12	BDH 14	Providing coursed rubble masonry first sort of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in superstructure including racking out joints on the inside when plastering is to be done, watering and scaffolding etc. complete.	Bd.H.14 Page No. 333	Cubic Metre	10789.00	3484.00
905	Stone Masonry	28.13	BDH 40	Providing coursed rubble masonry first sort for pillars of trap / granite / quartzite / gneiss stones in cement mortar 1:6 including pointing with cement mortar 1:3 scaffolding and watering etc.complete.	Bd.H.40 Page No. 345	Cubic Metre	10138.00	4606.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
906	Concrete Block Masonry	29.01	BDI 1	Providing and laying masonry of I.S. Standard C.C. hollow block 100 x 200 x 400 mm with 100mm thick in cement mortar 1:6 proportion for superstructure including curing, scaffolding etc. complete.	Bd.l.1 Page No. 349	Square Metre	1001.00	445.00
907	Concrete Block Masonry	29.02	BDI 1	Providing and laying masonry of I.S. Standard C.C. hollow block 200 x 200 x 400 with 200mm thick mm in cement mortar 1:6 proportion for superstructure including curing, scaffolding etc. complete.	Bd.l.1 Page No. 349	Square Metre	1087.00	464.00
908	Concrete Block Masonry	29.03	BDI	Providing and constructing masonry in precast solid Concrete Block (Grade D-50 As per I.S. 2185, Part-I, 1974, Reframed 1987) having compressive strength 5-00 N/mm <sup>2</sup> of size (300 mm x 200 mm x 150mm) in cement mortar 1:6 for superstructure including striking joints on unexposed faces, racking out joints on exposed faces, watering, curing and scaffolding etc. complete.	As directed by Engineer in Charge.	Cubic Metre	6274.00	1149.00
909	Concrete Block Masonry	29.04	BDI	Providing and constructing masonry in Autoclaved Areaclaved ( Cellular) Concrete Block of aproved manufacturer confirming to IS 2185 Part III 1984 of size ( 625x240x225)mm in extra fine jointing mortar of fixoblock of Ultra Tech or equivalent in foundaions and plinth of inner walls/in plinth external walls including bailing out water,striking joints on unexposed faces,racking out joints on exposed faces and watering etc.complete	As directed by Engineer in Charge.	Cubic Metre	6799.00	1268.00
910	Concrete Block Masonry	29.05	BDI	Providing and constructing masonry in Autoclaved Areaclaved ( Cellular) Concrete Block of aproved manufacturer confirming to IS 2185 Part III 1984 of size ( 625x240x225)mm in extra fine jointing mortar of fixoblock of Ultra Tech or equivalent in superstructure including,striking joints,racking out joints watering and scaffolding etc.complete	As directed by Engineer in Charge.	Cubic Metre	6865.00	1334.00
911	Concrete Block Masonry	29.06	BDI	Providing and constructing masonry in Autoclaved Areaclaved (Celluar) Concrete Block of aproved manufacturer confirming to IS 2185 Part III 1984 of size (625x 240x100)mm in extra fine jointing mortar of fixoblock of Ultra Tech or equivalent in half brick thick wall including 2 hoop iron strips 25mm x 1.6mm at every third course,properly bend and bonded at ends scaffolding racking out joints and watering compete	As directed by Engineer in Charge.	Square Metre	854.00	162.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
912	Concrete Block Masonry	29.11	BDI	Providing Green Build Product (GBP) Build Fast Plus masonry ecofriendly wet mix /Blocks laying Adhesive is a pre-polymerized, wet mix jointing adhesive which is suitable for Building masonry walls with all kind of blocks with thickness of thin layer of 2mm to 4mm between masonry units. There is no need to pre-wet the Blocks nor to post cure the wall with water.Confirming to IS 2185 of size 75 x 240x 650 mm in superstructure including striking joints, racking outjoints faces and scaffolding etc. complete.	(As directed by Engineer in Charge)	Square Metre	1222.00	450.00
913	Concrete Block Masonry	29.12	BDI	Providing Green Build Product (GBP) Build Fast Plus masonry ecofriendly wet mix /Blocks of size 100 X 240 x 650 mm laying Adhesive is a pre-polymerized, wet mix jointing adhesive which is suitable for Building masonry walls with all kind of blocks with thickness of thin layer of 2mm to 4mm between masonry units. There is no need to pre-wet the Blocks nor to post cure the wall with water.Confirming to IS 2185 of size in superstructure including striking joints, racking out joints faces and scaffolding etc. complete.	As directed by Engineer in Charge.	Square Metre	1381.00	515.00
914	Concrete Block Masonry	29.13	BDI	Providing Green Build Product (GBP) Build Fast Plus masonry ecofriendly wet mix /Blocks of size 200 X 240 x 650 mm laying Adhesive is a pre-polymerized, wet mix jointing adhesive which is suitable for Building masonry walls with all kind of blocks with thickness of thin layer of 2mm to 4mm between masonry units. There is no need to pre-wet the Blocks nor to post cure the wall with water.Confirming to IS 2185 of size in superstructure including striking joints, racking out joints faces and scaffolding etc. complete.	As directed by Engineer in Charge.	Square Metre	2255.00	579.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
915	Expansion Joint	30.01	BDK 1	Providing expansion joints in R.C.C. framed structure (interior column) with plain premoulded filler 25 mm thick including fixing T.W. battens on both faces and finishing as directed etc. Complete.	Bd.K.1 Page No. 359	Square Metre	3392.00	905.00
916	Expansion Joint	30.02	BDK 1	Providing expansion joints in R.C.C. framed structure (exterior Columns) with plain premoulded filler 25 mm thick and 3 mm thick alluminium plate, hold fast, fixing T.W. battens on internal face, finishing etc. complete as directed.	Bd.K.1 Page No. 359	Square Metre	3979.00	928.00
917	Expansion Joint	30.03	BDK 1	Providing expansion joints in R.C.C. framed structure (at floor level) with premoulded filler 25 mm thick and 3 mm thick aluminium plate as required, bitumen poured filler and fixing T.W. battens on rear faces etc. complete as directed.	Bd.K.1 Page No. 359	Square Metre	4128.00	914.00
918	Expansion Joint	30.04	BDK 1	Providing expansion joints in R.C.C. framed structure (at terrace level) with premoulded filler 25 mm thick and 3 mm thick aluminium plate as required, bituminous poured filler, fixing lead, flashing on upper side and T.W. battens on inner face finishing etc. Complete as directed.	Bd.K.1 Page No. 359	Square Metre	4037.00	838.00
919	Expansion Joint	30.05	BDK 1A	Providing expansion joints in reinforced cement concrete framed structure (interior columns) with plain premoulded filler with confirming to IS 1838,1961, 25 mm thick with 75 mm wide and 1 mm thick stainless steel plate finishing etc. complete as directed	Bd K 1 A	Square Metre	5129.00	1500.00
920	Expansion Joint	30.06	BDK 1B	Providing expansion joints in R.C.C. framed structure (exterior column) with plain premoulded filler 25 mm thick with 75 mm wide and 1 mm thick stainless steel plate and finishing etc. complete.	Bd.K.1 B	Square Metre	5455.00	1500.00
921	Expansion Joint	30.07	BDK 1C	Providing expansion joints in R.C.C. framed structure (at floor level) with plain premoulded filler 25 mm thick with 75 mm wide and 1 mm thick stainless steel plat and finishing etc. complete.	Bd.K.1 C	Square Metre	4248.00	595.00
922	Expansion Joint	30.08	BDK 1D	Providing expansion joints in R.C.C. framed structure (at Terrace level) with premoulded filler 25 mm thick with 40 mm wide and 1 mm thick stainless steel plate as required, bitumen poured filler and finishing etc. complete as directed.	Bd.K.1 D	Square Metre	4224.00	595.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
923	Expansion Joint	30.09	BDK	Providing and fixing of BITUFLEX CLOSE CELL FOAM of size 30 mm x 30 mm in double layer in the expansion joints in R.C.C framed structure (at floor level / at terrace level / interior columns) for overlapping of closed cell foam joints, applying TP- 40 PRIMER on both the sides of concrete surface, filling the 25 mm x 25 mm gap with the POLYDEE-41 highly flexible sealant and covering the joint with Polydee-LM, 150 mm width in 2 coats etc. complete.	As directed by Engineer in charge	Running Metre	1977.00	206.00
924	Expansion Joint	30.10	BDK	Providing and fixing of BITUFLEX CLOSE CELL FOAM of size 30 mm x 30 mm in double layer in the expansion joints in R.C.C. framed structure (Exterior column) with closed cell foam , applying TP-40 PRIMER on both the sides of concrete surface, filling the 25 mm x 25 mm gap with the POLYSEAL, highly flexible sealant and covering the joint with Polydee- LM, 150 mm width in 2 coats and fixing the aluminium plate of 100 mm wide and 3 mm thick on external face of column etc. complete.Note- for item no. 9 and 10 Prior approval of Superintending Engineer is Necessary before execution of work.	As directed by Engineer in charge	Running Metre	1947.00	164.00
925	Expansion Joint	30.11		Providing and fixing bituminous pad 25mm thick for expansion joints in retaining wall, compound wall etc. complete.	As directed by Engineer in charge	Square Metre	1301.00	149.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
926	Water Proofing	31.01	BDJ 2	Providing and laying damp proof course 50 mm thick in M20 cement concrete layer and bitumen / using cement with waterproofing compound curing, formwork etc. complete.	Bd.J.2 Page No. 355	Square Metre	350.00	79.00
927	Water Proofing	31.02	BDJ 3	Providing and applying Bitumen VG30/VG40 layer at 2 kg. per square meter over the terrace, structural slab including cleaning the surface for waterproofing as directed complete	Bd.J.3 Page No. 356	Square Metre	95.00	12.00
928	Water Proofing	31.03	BDJ	Providing leak proof treatment by Injection grouting method to old floor without removing tiles of W.C., bath, with cement sand proportion of 1:1.5 and waterproofing compound at 2 kg/bag of cement mixed in 35 liters of water including drilling holes in required position grouting with above mixed solution and ceiling etc. complete.	As directed by Engineer in charge.	Litre	32.00	12.00
929	Water Proofing	31.04	BDJ	Providing cement based water proofing treatment to terraces (Indian water proofing or alike) with brick bats laid in required slope to drain the water for any span after cleaning the base surface. Applying a coat of cement slurry admixed with approved water proofing compound and laying the brick bats on bottom layer in C.M.1:5 admixed with approved water proofing compound filling up to half depth of brick bats, curing this layer for 3 days, applying cement slurry over this layer joints of brick bats with C.M.1:3 admixed with approved water proofing compound and finally top finishing with average 20 mm. thick layers of same mortar added with jute fiber at 1 Kg per bag including finishing the surface smooth with cement slurry admixed with approved water proofing compound. Marking finished surface with false squares of 300mm x 300 mm. making the junctions at the parapet rounded and tapered top for required height, with drip mould at the junction of plaster and parapet and curing and covering 10 years Guarantee against leakproofness on Court fee stamp paper of Rs. 500/- including ponding test etc. complete.	As directed by Engineer in charge.	Square Metre	937.00	482.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
930	Water Proofing	31.05	BDJ	Providing water proof bedding for flooring of Bath and WC 25 mm thick in C.M. 1:3 including using approved water proofing compound in specified proportion as per manufacturers specifications for per bag of cement including leveling, curing and covering 10 years guarantee on court fee stamp paper of Rs.500/- including ponding test etc. complete.	As directed by Engineer in charge.	Square Metre	345.00	167.00
931	Water Proofing	31.06	BDJ	Providing waterproof plaster in W.C. and bath 12 mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 kg. per bag of cement of approved make and manufacturer and curing etc. complete. (Excluding Tiles) (As directed by Engineer in Charge)	As directed by Engineer in charge.	Square Metre	310.00	190.00
932	Water Proofing	31.07	BDJ	Providing waterproof plaster in W.C. and bath 20 mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 kg. per bag of cement of approved make and manufacturer and curing (and filling joints of Nahani trap and any outlet by properly) etc. complete.	As directed by Engineer in charge.	Square Metre	425.00	217.00
933	Water Proofing	31.08	BDJ	Removing the tar or coba and disposing of the material as directed etc. complete.	As directed by Engineer in charge.	Square Metre	21.00	21.00
934	Water Proofing	31.09	BDJ	Providing and applying water proofing treatment using acrylic polymer modified cement based water proofing coating with fibre glass mesh mixing at the rate of powder to liquid (2:1) by weight covering 9 to 10 sqm /kg with two coat using approved chemicals for masonry and concrete surface by brush covering 7 years guarantee on Stamp Papers etc. complete.	As directed by Engineer in charge	Square Metre	516.00	252.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
935	Water Proofing	31.10	BDJ	Providing and laying jointless Polydee-LM, a highly flexible elastometric coating for RCC / cementitious surface for terrace waterproofing on B.B. Coba / R.C.C, after application of TP-42 Primer on perfectly clean surface (free from loose dust and foreign matter) application of 1st coat of Polydee-LM @ 700 gms/sqm and applying 2nd coat of Polydee-LM @ 700 gms/sqm and finishing the same with sprinkling the AG-10 granules on the wet coating. (After finishing covering the treatment with 25mm cement plaster for protection with fibrillated 6mm Plyplast fibre @ 125 gms/sqm to be paid in separate item.) covering 7 years guarantee on Court Fee Stamp Paper of Rs. 100/- etc. complete.	As directed by Engineer in charge	Square Metre	940.00	187.00
936	Water Proofing	31.11	BDJ	Providing and applying a base coat comprising of 1 Kg Polydee-MC and 1 Kg fresh cement after wetting the surface followed by drying the surface for 2 days, apply primer coat of TP-40 and after drying, applying Polydee-11 two component (mixing ratio 2 A : 1 B ) Antibacterial food grade coating inside drinking water tank in two coats with time interval of minimum 8 hrs. covering 7 years guarantee on Court Fee Stamp Paper of Rs. 100/- etc. complete.	As directed by Engineer in charge	Square Metre	1068.00	187.00
937	Water Proofing	31.12	BDJ	Providing and fixing 20 to 25 mm thick rough shahabad box type waterproofing for basement or underground floor on a base of Cement concrete 1:3:6, including sub base of 2.50 centimeter thick Cement mortar 1:3 with conceal, secrete (RMW), Algae proof or other alike waterproofing liquids, raking of joints upto 35 mm depth, filling the joints with 6 mm size crushed metal, hand grouting with cement slurry, curing and cleaning, with 7 years guarantee on court fee stamp of Rs. 100/- with ponding test etc complete. (excluding Cement concrete 1:3:6 base concrete )	Bd.J.2 Page No. 355	Square Metre	1054.00	314.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
938	Water Proofing	31.13	BDJ	Providing and fixing 20 to 25 mm thick rough shahabad box type waterproofing treatment to vertical outside faces of Reinforced Cement concrete walls of basement or underground floor including filling the gap of 25 mm between rough shahabad and R.C.C. walls with cement grout mixed with water proofing liquid Algae proof or other alike with one tile lift method, brushing the joints horizontally with cement slurry mixed with water proofing liquid for width 30 to 35 mm and sloping coping over topmost tile with cement mortar 1:3, butting the bottom most with Cement concrete 1:2:4 mixed with water proofing liquid, curing, with 7 years guarantee on court fee stamp of Rs.100/- with ponding test etc complete. (excluding Cement concrete 1:3:6 base concrete)	Bd.J.2 Page No. 355	Square Metre	1094.00	407.00
939	Water Proofing	31.14	BDJ	Providing and laying perforated PVC 160 mm dia pipe in proper line,leveland slope including necessary material fitting etc. complete.	As directed by Engineer in charge	Running Metre	1044.00	312.00
940	Water Proofing	31.15	BDJ	Providing and applying required coats of a water based UV resistant Evercrete Top Seal sealant to protect natural stone, bricks, concrete and wooden structures from water intrusion and staining due to water penetration and algae formation etc complete	As directed by Engineer in charge.	Square Metre	469.00	89.00
941	Water Proofing	31.16	BDJ	Providing and applying required coats of a water based Evercrete Deep Penetrating Sealer (DPS) on cement concrete surface like roads, beams, and columns, plastered walls, basements, roofs, potable water tanks etc to react with cement and to penetrate concrete structure thereby making it resistant to chemicals / chlorides water to make it dust proof and to act as a water resistant at the same time which Strengthens the treated surface and reduce the curing period etc complete. - Note -- for item no. 7 to 4 prior approval of Superintending Engineer will be necessary	As directed by Engineer in charge.	Square Metre	729.00	99.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
942	Water Proofing	31.17		Providing water proofing treatment as per IS : 1346-1966 to generally inaccessible sloping Reinforced Cement Concrete Terrace slab with bitumen felts in all positions in five course, consisting of applying cold bitumen primer coat at the rate of 2.5 litre per 10 Sqm., hot bitumen layer at the rate of 14.50 kg per 10 Sqm. and over the same layer of bitumen felt of type III grade (I) as per IS: 1332-1965 across the slope with 10 cm overlap commencing at lowest level and again applying hot bitumen course at the rate of 14.50 kg per 10 Sqm. and finally spreading over it grit at the rate of 14.50 kg per 10 Sqm. including all lifts, leads and scaffolding whenever necessary complete as directed with four years' guarantee on requisite stamp paper etc. complete.	As directed by Engineer in charge	Square Metre	504.00	171.00
943	Water Proofing	31.26	BDJ	Providing waterproofing in W.C. and bath including brick bat coba in all position including providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @ 1kg/per bag of cement laying brick bat coba of required thickness in cm 1:5 with waterproofing compound 1 kg/bag of cement grouting and finishing the top layer with 20mm thick brick bedding in cm mortar 1:3 with waterproofing compound 1 kg/per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years' guarantee on requisite stamp paper including curing etc. complete.	As directed by Engineer in charge	Cubic Metre	5100.00	2670.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
944	Plastering and Pointing	32.01	BDL 1	Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:4 without neeru finish to concrete surface in all positions including scaffolding and curing etc. complete.	Bd.L.1 Page No. 367	Square Metre	168.00	132.00
945	Plastering and Pointing	32.02	BDL 1	Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:3 without neeru finish to concrete surface in all positions including scaffolding and curing etc. complete.	Bd.L.1 Page No. 367	Square Metre	172.00	132.00
946	Plastering and Pointing	32.03	BDL 2	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.	Bd. L.2 Page No. 368	Square Metre	228.00	162.00
947	Plastering and Pointing	32.04	BDL 2A	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.	Bd. L.2 Page No. 368	Square Metre	234.00	162.00
948	Plastering and Pointing	32.05	BDL 2B	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:3 without neeru finish to concrete or brick surfaces, in all position including scaffolding and curing etc. complete.	Bd.L.2 Page No. 368	Square Metre	243.00	162.00
949	Plastering and Pointing	32.06	BDL 4	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:5 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete	Bd.L.4 Page No. 368	Square Metre	386.00	267.00
950	Plastering and Pointing	32.07	BDL 4A	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	Bd.L.4 Page No. 368	Square Metre	392.00	267.00
951	Plastering and Pointing	32.08	BDL 4B	Providing internal cement plaster 20mm. thick in Single coats in cement mortar 1:3 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete.	Bd.L.4 Page No. 368	Square Metre	401.00	267.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
952	Plastering and Pointing	32.11	BDL 7	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.	Bd.L.7 Page No. 369	Square Metre	679.00	472.00
953	Plastering and Pointing	32.12	BDL 8	Providing rough cast cement plaster externally in two coats to concrete, brick or stone masonry surfaces in all positions with base coat of 12 to 15 mm thick in C.M. 1:4 and rough cast treatment 12mm thick in proportion 1:1 1/2:3 including scaffolding and fourteen days curing complete.	Bd.L.8 Page No. 370	Square Metre	531.00	401.00
954	Plastering and Pointing	32.13	BDL 9	Providing rough cast cement plaster externally in two coats with coloured cement finish to concrete/ brick/ stone masonry surfaces in all positions with base coat 12 to 15 mm. thick in C.M. 1:4 using gray cement and rough cast treatment 12 mm thick in proportion of 1:1 1/2:3 using colour pigment including scaffolding and fourteen days curing etc. complete.	Bd.L.9, Page No.370	Square Metre	538.00	401.00
955	Plastering and Pointing	32.15	BDL 10	Providing neeru finish to plastered surfaces in all positions including scaffolding and curing etc. complete.	Bd. L.10, Page No.370	Square Metre	51.00	45.00
956	Plastering and Pointing	32.16	BDL 15A	Providing flush grooved pointing with cement mortar 1:3 for brick work including scaffolding and curing etc. complete.	Bd. L.15 Page No. 372	Square Metre	140.00	123.00
957	Plastering and Pointing	32.17	BDL 15B	Providing flush grooved pointing with cement mortar 1:3 for stone masonry work including scaffolding and curing etc. complete.	Bd. L.15 Page No. 372	Square Metre	149.00	123.00
958	Plastering and Pointing	32.18	BDL 16	Providing tuck pointing with cement mortar 1:3 for stone/Brick masonry including scaffolding and curing etc. complete.	Bd. L. 16 Page No. 373	Square Metre	145.00	123.00
959	Plastering and Pointing	32.19	BDL 17	Providing weathered pointing with cement mortar 1:3 for stone/ Brick masonry including scaffolding and curing etc. complete.	Bd. L. 17 Page No. 373	Square Metre	146.00	123.00
960	Plastering and Pointing	32.20	BDL 18	Providing vee pointing with cement mortar 1:3 for stone / Brick masonry including scaffolding and curing etc. complete	Bd. L. 18 Page No. 373	Square Metre	140.00	123.00
961	Plastering and Pointing	32.21	BDL	Providing fine cement finish 1.5 mm thick over green plaster surface including scaffolding curing etc. complete.	As directed by Engineer in charge.	Square Metre	57.00	45.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
962	Plastering and Pointing	32.22	BDL	Labour charges for providing groove in external plaster having width and spaced as directed by engineer incharge etc. complete.	As directed by Engineer in charge.	Running Metre	39.00	39.00
963	Plastering and Pointing	32.23	BDL	Providing patti/ band 75mm wide on plastered surface 12 mm to 15 mm thick in C.M. 1:3 line and level including neat finishing scaffolding curing etc. complete.	As directed by Engineer in charge.	Running Metre	30.00	23.00
964	Plastering and Pointing	32.24	BDL	Providing patti/ band 100mm wide on plastered surface 12 mm to 15 mm thick in C.M. 1:3 line and level including neat finishing scaffolding curing etc. complete.	As directed by Engineer in charge.	Running Metre	45.00	35.00
965	Plastering and Pointing	32.25	BDL	Providing patti/ band 150mm wide on plastered surface 12 mm to 15 mm thick in C.M. 1:3 line and level including neat finishing scaffolding curing etc. complete.	As directed by Engineer in charge.	Running Metre	62.00	47.00
966	Plastering and Pointing	32.26	BDL	Providing and fixing chicken mesh of 22 gauge, with about 30 cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete /B.B.masonry and or tying by binding wire etc. complete.	As directed by Engineer in Charge:	Running Metre	103.00	37.00
967	Plastering and Pointing	32.27	BDL	Providing and applying plaster with plaster of paris in 6mm thickness to previously plaster surface in all position including preparing the surface scaffolding etc. complete.	As directed by Engineer in Charge.	Square Metre	118.00	63.00
968	Plastering and Pointing	32.28	BDL	Providing and applying spray plaster made with finely graded marble and quartz in 2 mm thickness in two coats using putty knife or trowel to newly plaster fairly even surface after minimum 30 days gap in all position including finishing the surface using zero number sand paper or fine emry paper gently level the area by moving paper in round circles removing the dust and clean the surface with dry cloth and scaffolding including all materials and labour etc. complete.	As directed by Engineer in Charge.	Square Metre	255.00	48.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
969	Plastering and Pointing	32.29	BDL	Providing and applying laying Aggregate plaster in granite / marble stones, as decorative finish to give granite / marble like appearance to concrete, brick or block surfaces in all position including preparation of surface smoothly, evenly by racking of joints in case of Brick or block work including backing layer of 12 mm thick with cement mortar 1:3 with 2% integral cement water proofing compound, roughening for wall keying hardening and drying the surface for a minimum five days gaps including second coat of cement lime mortar into a proportion 1:4 preparing the surface for three coat of marble finish plaster giving a thin coat of white cement and two parts of coarse calcite powder, applying the mortar with steel float on the surface in proper evenness applying at coat of white cement and lime to set a smooth finish then applying a thin coat of slurry made of white cement and black oxide colour in required proportion by the steel float to get black streaks on the surface and curing the surface for two days including all materials and labour etc. complete.	As directed by Engineer in Charge.	Square Metre	1277.00	537.00
970	Plastering and Pointing	32.30	BDL	Providing and applying plaster / wall punning with plaster of paris ( with plaster of paris material of Ambuja / Mor Chap or equivalent make ) in 10 to 13 millimeter thickness to previously plastered surface / or on newly brick surface ( Excluding rough cast plaster ) in all position including preparing and Finishing the surface scaffolding etc.complete.	As directed by Engineer in charge.	Square Metre	470.00	154.00
971	Plastering and Pointing	32.31	BDL	Providing and applying gypsum plaster ( with Gypsum material of Gypsum India / Mega Sign or equivalent make ) with finishing with gypsum material in 10 to 13 millimeter thickness to previously plastered surface / or on newly brick surface ( Excluding rough cast plaster ) in all position including preparing and Finishing the surface scaffolding etc.complete.	As directed by Engineer in charge.	Square Metre	536.00	154.00
972	Plastering and Pointing	32.32	BDL	Providing and applying Texture plaster with finishing with texture material of approved make in 3 to 4 millimeter thickness on previously plastered surface, including Plaster Groove 6mm thickness or Tape Grooves 35 to 45 mm thickness or as required, in all position including preparing the surface, scaffolding etc. complete.	As directed by Engineer in charge.	Square Metre	538.00	89.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
973	Plastering and Pointing	32.33	BDL	Removing the existing cement plaster of any thickness without causing dust nuisance and stacking the debris upto a distance of 50 metres or spreading in the compound and cleaning the site etc. complete.	As directed by Engineer in charge.	Square Metre	41.00	41.00
974	Plastering and Pointing	32.34	BDL	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete.	As directed by Engineer in charge.	Square Metre	81.00	39.00
975	Plastering and Pointing	32.36	BDL	Providing cement patta / band of 2.50 cm width on either side of edges of plaster for doors and windows including scaffolding ,finishing, curing etc. complete.	As directed by Engineer in charge.	Square Metre	30.00	24.00
976	Plastering and Pointing	32.37	BDL	Providing groove to required size at specified location as directed by Engineer, at junction of brick masonry wall and R.C.C beams or Column, at junction of composite masonry, including scaffolding, finishing, curing etc. complete.	As directed by Engineer in charge.	Running Metre	30.00	30.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
977	Paving Flooring and dado	33.01	BDM 1	Providing and laying Rough Shahabad Stone Flooring 25mm to 30mm thick and of required width in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, striking joints, pointing in cement mortar 1:3 curing and cleaning etc. complete.	Bd.M.1 Page No. 379	Square Metre	615.00	232.00
978	Paving Flooring and dado	33.02	BDM 1A	Providing and laying Rough Shahabad Stone Flooring 40mm.to 45 mm. thick and of required width in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, striking joints, pointing in cement mortar 1:3 curing and cleaning etc. etc. complete	Bd.M.1 Page No. 379	Square Metre	671.00	238.00
979	Paving Flooring and dado	33.03	BDM 1B	Providing and laying Rough Shahabad Stone Flooring 50mm to 60mm thick and of required width in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, striking joints, pointing in cement mortar 1:3 curing and cleaning etc. etc. complete.	Bd.M.1 Page No. 379	Square Metre	746.00	249.00
980	Paving Flooring and dado	33.04	BDM 3	Providing and laying Polished Shahabad Stone flooring 25mm to 30mm thick and required width wide in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, filling joints, with neat cement slurry, curing, polishing and cleaning etc. complete.	Bd.M.3 Page No. 380	Square Metre	687.00	233.00
981	Paving Flooring and dado	33.05	BDM 3A	Providing and laying Polished Tandur Stone flooring 25mm to 30mm thick required width in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete.	Bd.M.3 Page No. 380	Square Metre	889.00	294.00
982	Paving Flooring and dado	33.06	BDM 3B	Providing and laying machine cut machine Polished Kota stone flooring 25mm to 30mm thick and required width in plain/ diamond pattern on bed of 1:6 C. M. including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete.	Bd.M.3 Page No. 380	Square Metre	1087.00	262.00
983	Paving Flooring and dado	33.07	BDM	Providing and laying handcut polished Kotah Stone flooring 25mm to 30mm thick and 30cm wide in plain/diamond pattern on a bed of 1:6 C.M. including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete.	Bd.M.3 Page No.380	Square Metre	1028.00	224.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
984	Paving Flooring and dado	33.08	BDM	Providing and laying polished hand cut Kotah Stone flooring 25mm to 30mm thick and 45cm to 55cm wide in plain/diamond pattern on a bed of 1:6 C.M. including cement float, filling joints with neat cement slurry, curing, polishing and cleaning complete.	Bd.M.3 Page No.380	Square Metre	1179.00	224.00
985	Paving Flooring and dado	33.09	BDM 7	Providing and laying cement concrete flooring 40 mm thick with M15 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30 cm x 30 cm or other size laid diagonally /square etc finishing smooth (with extra cement) in any colour as directed and curing etc. complete. With Natural Sand	Bd.M.7 Page No. 383	Square Metre	432.00	246.00
986	Paving Flooring and dado	33.10	BDM 7	Providing and laying cement concrete flooring 40 mm thick with M15 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30 cm x 30 cm or other size laid diagonally/ square etc finishing smooth (with extra cement) in any colour as directed and curing etc. complete. With Crushed Sand.	Bd.M.7 Page No. 383	Square Metre	386.00	246.00
987	Paving Flooring and dado	33.11	BDM 6	Providing and laying cement concrete flooring 40mm thick with M20 cement concrete laid to proper level and slope in alternate bays, including compaction, filling joints, marking lines to give appearance of tiles of 30cm x 30cm or other size laid diagonally/square etc. finishing smooth (with extra cement) in any colour as directed and Curing etc. complete. With Natural Sand	Bd.M.6 Page No. 381	Square Metre	437.00	246.00
988	Paving Flooring and dado	33.12	BDM 6	Providing and laying cement concrete flooring 40mm thick with M20 cement concrete laid to proper level and slope in alternate bays, including compaction, filling joints, marking lines to give appearance of tiles of 30cm x 30cm or other size laid diagonally/square etc. finishing smooth (with extra cement) in any colour as directed and Curing etc. complete. With Crushed Sand	Bd.M.6 Page No. 381	Square Metre	418.00	246.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
989	Paving Flooring and dado	33.13	BDM 7A	Providing and laying cement concrete flooring 50 mm thick with M15 cement concrete laid to proper level and slope in alternate bays including compaction filling joints, marking lines to give the appearance of tiles of 30cm x 30cm or other size laid diagonally/square etc finishing smooth (with extra cement) in any colour as directed and curing etc. complete. With Natural Sand	Bd.M.7 Page No. 383	Square Metre	468.00	246.00
990	Paving Flooring and dado	33.14	BDM 7A	Providing and laying cement concrete flooring 50 mm thick with M15 cement concrete laid to proper level and slope in alternate bays including compaction filling joints, marking lines to give the appearance of tiles of 30cm x 30cm or other size laid diagonally/square etc finishing smooth (with extra cement) in any colour as directed and curing etc. complete. With Crushed Sand.	Bd.M.7 Page No. 383	Square Metre	444.00	246.00
991	Paving Flooring and dado	33.15	BDM 6A	Providing and laying cement concrete flooring 50mm thick with M20 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30cm x 30cm or other size laid diagonally/square etc. finishing smooth (with extra cement) in any colour as directed and curing etc. complete. With Natural Sand	Bd.M.6 Page No. 381	Square Metre	479.00	246.00
992	Paving Flooring and dado	33.16	BDM 6A	Providing and laying cement concrete flooring 50mm thick with M20 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30cm x 30cm or other size laid diagonally/square etc. finishing smooth (with extra cement) in any colour as directed and curing etc. complete. With Crushed Sand.	Bd.M.6 Page No. 381	Square Metre	375.00	169.00
993	Paving Flooring and dado	33.17	BDM 22	Providing and laying machine cut machine polished shahabad Stone slabs 20 to 25mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete.	Bd.M.22 Page No. 390	Square Metre	927.00	457.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
994	Paving Flooring and dado	33.18	BDM 22B	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25 mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete.	Bd.M.22 Page No. 390	Square Metre	1316.00	457.00
995	Paving Flooring and dado	33.19	BDM 29B	Providing sills of polished Kota stone 25 mm to 30mm thick, on a bed of 1:4 cement mortar including cement float, filling joints with slurry, curing,moulding edges, polishing and cleaning etc. complete.	Bd.M.29 Page No. 391	Square Metre	1080.00	268.00
996	Paving Flooring and dado	33.20	BDM 29C	Providing sills of polished Kadappa stone 25mm to 30mm thick, on a bed of 1:4 cement mortar including cement float, filling joints with slurry, curing polishing and cleaning etc. complete.	Bd.M.29 Page No. 391	Square Metre	940.00	268.00
997	Paving Flooring and dado	33.21	0	Providing sills of required material 20mm to 25mm thick, on a bed of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing, polishing, moulding edges, cleaning complete. a) Marble other than white makrana	Spec.No.: Bd.M.31/Page No.392	Square Metre	1608.00	268.00
998	Paving Flooring and dado	33.22	0	Providing sills of required material 20mm to 25mm thick, on a bed of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing, moulding edges, polishing,cleaning complete. b) Granite	Spec.No.: Bd.M.31/Page No.393	Square Metre	3515.00	268.00
999	Paving Flooring and dado	33.23	BDM 15	Providing and fixing black kadappa stone as shelves 25mm. thick machine polished, extending the polish upto 20 cm width on lowerside, rounding corners, laying in position jointing with bedding cement mortar 1:4 proportion curing etc etc. complete.	Bd.M.29 Page No. 391	Square Metre	1054.00	304.00
1000	Paving Flooring and dado	33.24	BDM 12	Providing and laying matt finish ceramic tiles of having size 30 cm x 30 cm confirming to I.S.15622/2006 (group D II-A) and 7 to 8 mm thick for flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with white/colour cement slurry cleaning curing etc. complete.	Bd.M.12 Page No. 385.	Square Metre	1050.00	284.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1001	Paving Flooring and dado	33.25	BDM 13	Providing and laying ceramic tiles of having size 30 cm. x 30 cm. and confirming to corresponding I.S. for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/ colour cement slurry cleaning curing etc. complete.	Bd.M.13 Page No. 386.	Square Metre	1108.00	347.00
1002	Paving Flooring and dado	33.26	BDM 13	Providing and laying ceramic tiles having size 30 cm. x 45 cm. confirming to corresponding I.S. for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/ colour cement slurry cleaning curing etc. complete.	Bd.M.13 Page No. 386.	Square Metre	1147.00	344.00
1003	Paving Flooring and dado	33.27	BDM 13	Providing and laying ceramic tiles having size 30 cm. x 60 cm. confirming to corresponding I.S. for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/ colour cement slurry cleaning curing etc. complete.	Bd.M.13 Page No. 386.	Square Metre	1191.00	347.00
1004	Paving Flooring and dado	33.28	BDM	Providing Mirror polishing to Kota Stone including using all necessary stones and equipments cleaning, washing etc. complete. For Flooring	As directed by Engineer in charge.	Square Metre	123.00	29.00
1005	Paving Flooring and dado	33.29	BDM	Providing Mirror polishing to Kota Stone including using all necessary stones and equipments cleaning, washing etc. complete. For Skirting	As directed by Engineer in charge.	Running Metre	56.00	29.00
1006	Paving Flooring and dado	33.30	BDM	Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.	As directed by Engineer in charge	Square Metre	638.00	152.00
1007	Paving Flooring and dado	33.31	BDM	Providing and laying in situ cement concrete M30 with tremix treatment for 200 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.	As directed by Engineer in charge	Square Metre	1175.00	276.00
1008	Paving Flooring and dado	33.32	BDM 35	Providing 25 mm to 30 mm thick partition of polished black kadappa stone slab of approved quality including giving required size and shape etc. Fixing in cement mortar 1:3 curing and cement etc. complete. a) One side polish	Bd.M.35 B/P No.393	Square Metre	855.00	265.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1009	Paving Flooring and dado	33.33	BDM 35	Providing 25 mm to 30 mm thick partition of polished black kadappa stone slab of approved quality including giving required size and shape etc. Fixing in cement mortar 1:3 curing and cement etc. complete. b) Both side polish	Bd.M.35 B/P No.393	Square Metre	997.00	265.00
1010	Paving Flooring and dado	33.34	BDM 3	Providing and laying in position flooring of telephone black / Amba White / Cat bary brown / Ruby red / Ocean Brown granite stone of approved shade and size 18 mm to 20 mm thick on bed 1:6 cement mortar including cement floats striking joints, pointing in C.M. 1:3 curing and cleaning etc. complete.	Bd.M. 3 B/Page No. 380	Square Metre	3640.00	265.00
1011	Paving Flooring and dado	33.35	BDM 22	Providing and fixing machine cut machine polished 18 mm to 20 mm thick telephone black / Amba White / Cat bary brown / RBI red / Ocean Brown granite stone for treads and risers of steps and staircases of approved colour and shade with full moulding and three grooved line for the treads on bed of 1:4 Cement mortar including float filling joints with neat cement slurry curing polishing and cleaning etc. complete.	Bd. M.22 B/Page No. 390	Square Metre	3754.00	349.00
1012	Paving Flooring and dado	33.36	BDM 35	Providing and fixing machine cut mirror polished 18 mm to 20 mm thick telephone black granite / Amba White / Cat bary brown / RBI red / Ocean Brown granite stone partition with full moulding the edges etc. complete . Both side polish	Bd.M.35 B/Page No.393	Square Metre	3635.00	265.00
1013	Paving Flooring and dado	33.37	BDM 35	Providing and fixing machine cut mirror polished 18 mm to 20 mm thick telephone black / Amba White / Cat bary brown / RBI red / Ocean Brown granite stone partition with full moulding the edges etc. complete. One side polish	Bd.M.35 B/Page No.393	Square Metre	3629.00	265.00
1014	Paving Flooring and dado	33.38	BDM 35	Providing and preparing kitchen otta up to 75 cm width,made up from 30 mm thick and 75 cm high vertical support for kadppa at 1 m. c/c of 25 mm thick both side polished kadappa middle shelf and bottom of 20 mm thick one side polished kadappa with facia patti of 20 x 50 mm kadappa including all material labour cutting fixing with cement mortar and araldite curing polished and cleaning etc. complete.	Bd.M.35C / Page No. 393	Square Metre	2458.00	315.00
1015	Paving Flooring and dado	33.39	BDM 35	Providing and fixing 1.5 mm thick polyvenyl vinyl chloride flooring including leveling the base with white cement including pasting with appropriate material cleaning the surface etc. complete	Bd.M.35C / Page No. 393	Square Metre	538.00	132.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1016	Paving Flooring and dado	33.40	BDM 12	Providing and laying vitrified mirror / glossy finish tiles decorative type having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 ( group Bla) of approved make, shade and pattern for <b>flooring</b> in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete.	Bd.M. 12 Page No.385	Square Metre	1027.00	218.00
1017	Paving Flooring and dado	33.41	BDM 12	Providing and laying vitrified mirror / glossy finish tiles having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 ( group Bla) of approved make, shade and pattern for <b>dado and skirting</b> in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete	Bd.M. 12 Page No.385	Square Metre	1087.00	281.00
1018	Paving Flooring and dado	33.42	BDM 12	Providing and laying vitrified matt finish tiles having size 590 mm to 605 mm x to 605 mm of 8 to 10 mm thickness and confirming IS. 15622-2006 (Group Bla) of approved make, shade and pattern for <b>flooring</b> in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.	Bd.M.12 Page No. 385	Square Metre	1412.00	218.00
1019	Paving Flooring and dado	33.43	BDM 12	Providing and laying vitrified matt finish tiles having size 590 mm to 605 mm x to 605 mm of 8 to 10 mm thickness and confirming IS. 15622-2006 (Group Bla) of approved make, shade and pattern for <b>dado and skirting</b> in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.	Bd.M.12 Page No. 385	Square Metre	1753.00	281.00
1020	Paving Flooring and dado	33.44	BDM 12	Providing and laying vitrified rustic matt stone finish tiles having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10mm thickness and confirming to IS. 15622-2006 (Group Bla) of approved make, shade and pattern for <b>flooring</b> in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.	Bd.M.12 Page No. 385	Square Metre	1478.00	284.00
1021	Paving Flooring and dado	33.45	BDM 12	Providing and laying vitrified rustic matt stone finish tiles having size 590 mm to 605 mm x 590 mm to 605 mm to 8 to 10mm thickness and confirming to IS. 15622-2006 (Group Bla) of approved make, shade and pattern for <b>dado and skirting</b> in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and cleaning. etc. complete.	Bd.M.12 Page No. 385	Square Metre	1538.00	347.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1022	Paving Flooring and dado	33.46	BDM 12	Providing and laying vitrified stone effect finish tiles having size 590 to 605 mm x 590 to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 (Group Bla) of approved make, shade and pattern for <b>flooring</b> in required position laid on a bed of 1:4 cement mortar including required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete	Bd.M. 12 Page No. 385	Square Metre	1478.00	284.00
1023	Paving Flooring and dado	33.47	BDM 12	Providing and laying vitrified stone effect finish tiles having size 590 to 605 mm x 590 to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 (Group Bla) of approved make, shade and pattern for <b>dado and skirting</b> in required position fixed in 1:4 cement mortar including required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.	Bd.M. 12 Page No. 385	Square Metre	1538.00	347.00
1024	Paving Flooring and dado	33.48	BDM 12	Providing and fixing green marble of 18 to 20 mm thick for door frame/ dado/ window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing / moulding the sharp edges wherever necessary, curing, etc. complete.	Bd. M. 12	Square Metre	1823.00	253.00
1025	Paving Flooring and dado	33.49	BDM	Providing and fixing heavy duty inter locking concrete Grey paving blocks of 60 mm thickness of having a strength of 300 kg/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30 mm thick including skirting joints and cleaning etc. complete.	A directed by Engineer in charge	Square Metre	815.00	80.00
1026	Paving Flooring and dado	33.50	BDM	Providing and fixing heavy duty inter locking concrete Grey paving blocks of 80 mm thickness of having a strength of 300 kg/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30 mm thick including skirting joints and cleaning etc. complete.	A directed by Engineer in charge	Square Metre	926.00	80.00
1027	Paving Flooring and dado	33.51	BDM	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 60 mm thickness of having a strength of 300 kg/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30 mm thick including skirting joints and cleaning etc. complete	A directed by Engineer in charge	Square Metre	853.00	80.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1028	Paving Flooring and dado	33.52	BDM	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 80 mm thickness of having a strength of 300 kg/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30 mm thick including skirting joints and cleaning etc. complete	As directed by Engineer in charge	Square Metre	1046.00	80.00
1029	Paving Flooring and dado	33.53	BDM 12	Providing and fixing heavy duty inter locking concrete RUBBER MOULD GLOSSY PAVING BLOCKS of 60 millimeter thickness of having a strength of 400 Kg/sq.m of approved quality and shape on a bed of crushed sand of 25 to 30 millimeter thick including striking joints and cleaning etc. complete. (using 100% crushed sand)	Bd. M-12 page No. 385	Square Metre	735.00	80.00
1030	Paving Flooring and dado	33.54	BDM	Providing and fixing heavy duty inter locking concrete Rubber mould glossy paving blocks of 80 mm thickness of having a strength of 400 kg/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30 mm thick including skirting joints and cleaning etc. complete. (using 100% crushed sand)	Bd. M.	Square Metre	1241.00	80.00
1031	Paving Flooring and dado	33.55	BDM	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 40 mm thickness of having a strength of 200 kg/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30 mm thick including skirting joints and cleaning etc. complete.	As directed by Engineer in charge	Square Metre	735.00	80.00
1032	Paving Flooring and dado	33.56	BDM	Providing leather finished polishing to Granite Stone slab by continuous grinding in 4 coats of different bits to receive rough and matt finish including buffing process before laying and fixing of stone as per drawing and design, including cleaning, washing and finishing etc. complete.	As directed by Engineer in charge	Square Metre	596.00	125.00
1033	Paving Flooring and dado	33.57	BDM	Providing leather finished polishing to Kota / Marble / Shahabad / Kadappa Stone slab by continuous grinding in 4 coats of different bits to receive rough and matty finish including buffing process before laying and fixing of stone as per drawing and design, including cleaning, washing and finishing etc. complete.	As directed by Engineer in charge	Square Metre	502.00	125.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1034	Paving Flooring and dado	33.58	BDM 12	Providing and laying Vitrified mirror/glossy finish having decorative type of size 590 millimeter to 605 millimeter x 590 millimeter to 605 millimeter of 8 to 10 millimeter thickness (on a existing flooring) with bonding chemical and confirming to IS 15622-2006 (Group Bla) of approved make shade and pattern for flooring in required position laid on a bed of bonding chemical filling joints curing and cleaning etc . complete.	Bd. M-12 page No. 385	Square Metre	1066.00	125.00
1035	Paving Flooring and dado	33.59	0	Providing and laying Vitrified MATT finish having decorative type of size 600 millimeter x 600 millimeter of 8 to 10 millimeter thickness (on a existing flooring) with bonding chemical and confirming to IS 15622-2006 (Group Bla) of approved make shade and pattern for flooring in required position laid on a bed of bonding chemical filling joints curing and cleaning etc .complete.	Bd. M-12 page No. 386	Square Metre	1447.00	125.00
1036	Paving Flooring and dado	33.61	0	Providing and laying Vitrified MATT finish having decorative type of size 1000 millimeter x 1000 millimeter of 8 to 10 millimeter thickness (on a existing flooring) with bonding chemical and confirming to IS 15622-2006 (Group Bla) of approved make shade and pattern for flooring in required position laid on a bed of bonding chemical filling joints curing and cleaning etc .complete.	Bd. M-12 page No. 388	Square Metre	2145.00	125.00
1037	Paving Flooring and dado	33.62	0	Providing and laying Vitrified RUSTIC MATT STONE finish having decorative type tiles of size 600 millimeter x 600 millimeter of 8 to 10 millimeter thickness (on a existing flooring) with bonding chemical and confirming to IS 15622-2006 (Group Bla) of approved make shade and pattern for flooring in required position laid on a bed of bonding chemical filling joints curing and cleaning etc. complete.	Bd. M-12 page No. 386	Square Metre	1478.00	156.00
1038	Paving Flooring and dado	33.65	BDM 12	Providing and laying Vitrified STONE EFFECT FINISH having decorative type tiles of size 590 millimeter to 605 millimeter x 590 millimeter to 605 millimeter of 8 to 10 millimeter thickness (on a existing flooring) with bonding chemical and confirming to IS 15622-2006 (Group Bla) of approved make shade and pattern for <b>flooring</b> in required position laid on a bed of bonding chemical filling joints curing and cleaning etc. complete.	Bd. M-12 page No. 385	Square Metre	1605.00	156.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1039	Paving Flooring and dado	33.66	BDM	Providing and laying chequered tiles of approved quality of size 30 cm x 30 cm, confirming to corresponding I.S. for flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with cement slurry cleaning curing etc. complete.	Bd. M-12 page No. 385	Square Metre	627.00	157.00
1040	Paving Flooring and dado	33.67	BDM	Providing and laying Antiskid Ceramic tiles of approved quality of size 30 cm x 30 cm and confirming to IS 15622-2006 (Group-B IIA) for antiskid flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with cement slurry cleaning curing etc. complete.	Bd. M-12 page No. 385	Square Metre	1070.00	284.00
1041	Paving Flooring and dado	33.68	BDM	Providing and laying telephone black / Amba White / Cadburybrown / Ruby red / Ocean Brown granite stone of 18 to 20 mm thick for door frame/ dado/ window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete.	As directed by Engineer-In-Charge	Square Metre	3933.00	541.00
1042	Paving Flooring and dado	33.75	BDM	Providing and laying Polished Kota stone flooring With Hand-Cut Polished Kota Stones 25mm to 30mm thick and required width in plain/diamond pattern on bed of 1:6 Cement mortar including cement float, filling joints with neat cement slurry, curing, cleaning and Mirror Polishing etc. complete Note- Water absorption for <u>kota stone</u> should not exceed 0.05%.( Item to be used with prior permission of Superintending Engineer )	Bd. M-3 page No. 380	Square Metre	1321.00	382.00
1043	Paving Flooring and dado	33.76	BDM	Providing, laying and fixing exterior grade fibrilling fibre reinforcement heavy duty designer cement concrete tiles for Flooring of approved colour and design 22 +/- 2 mm thick bayer colour pigmented as per IS ..1237 - 1980 having compressive strength more than 500 kg/sq.cm reaffirmed in 2006 ,having wert transvrse strength of 3.5 / mm 2, water absorption less than 10 % abrasion / wear resistance less than 2 mm ,skid resistance more than 25.0 (ASTM:E303) and no fading as per DIN - 51094 of size 300 x 300 in plan / designed pattern on a bed of 1:4 cement mortar including cement float ,filling joints with neat cement slurry ,curing, polishing and cleaning etc. complete. For flooring.	As directed by Engineer-In- Char	Square Metre	1009.00	284.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1044	Paving Flooring and dado	33.77	BDM	Providing, laying and fixing exterior grade fibrilling fibre reinforcement heavy duty designer cement concrete tiles for steps and dado of approved colour and design 22 +/- 2 mm thick bayer colour pigmented as per IS 1237 - 1980 reaffirmed in 2006 ,having wert transvrse strength of 3.5 / mm 2, water absorption less than 10 % abrasion / wear resistance less than 2 mm ,skid resistance more than 25.0 (ASTM:E303) and no fading as per DIN - 51094 in plan / designed pattern on a bed of 1:4 cement mortar including cement float ,filling joints with neat cement slurry ,curing,polished and cleaning etc. complete. For steps, and dado	As directed by Engineer-In- Char	Square Metre	1068.00	347.00
1045	Paving Flooring and dado	33.78	BDM	Machine polishing to cement/marble mosaic tiled flooring or any other type of flooring including cleaning, washing, etc. complete.	As directed by Engineer in Charge	Square Metre	143.00	119.00
1046	Paving Flooring and dado	33.79	BDM	Hand polishing to dado, skirting including cleaning, washing etc. complete.	As directed by Engineer in Charge	Square Metre	64.00	60.00
1047	Paving Flooring and dado	33.80	BDM	Providing wax polishing to floors and dado, preparing the surface, scaffolding etc. complete.	As directed by Engineer in Charge	Square Metre	360.00	179.00
1048	Paving Flooring and dado	33.81	BDM	Providing and fixing in required position skirting or dado of polished Kotah Stone slab 25 mm to 30 mm thick fixed on base on plaster of cement mortar 1:4 including cement float, filling joints with cement slurry, curing rubbing, polishing and cleaning complete.	As directed by Engineer in Charge	Square Metre	1120.00	292.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1049	Wood Finish	34.01	BDN 1.1	Providing and applying boiled linseed oil in one coat, to the new wood work, including knotting, preparing the surface, scaffolding etc. complete as directed.	Bd. N. 1. 1 Page No. 399	Square Metre	22.00	13.00
1050	Wood Finish	34.02	BDN 1.1	Providing and applying boiled linseed oil in two coats to the new wood work, including knotting, preparing the surface, scaffolding etc. complete as directed.	Bd.N.1.1 Page No. 399	Square Metre	35.00	25.00
1051	Wood Finish	34.03	BDN 1.2	Providing and applying Wax polish to the new wood work including knotting, preparing the surface, scaffolding etc. complete as directed.	Bd.N.1.2 Page No. 399	Square Metre	45.00	38.00
1052	Wood Finish	34.04	BDN 1.2	Providing and applying Wax polish to the old wood work including knotting, preparing the surface, scaffolding etc. complete as directed.	Bd. N. 1.2 Page No. 399	Square Metre	36.00	24.00
1053	Wood Finish	34.05	BDN 1.3	Providing and applying French polish for required finish on previously polished wood including knotting, preparing the surfaces, scaffolding etc. complete as directed	Bd.N.1.3 Page No. 399	Square Metre	102.00	70.00
1054	Wood Finish	34.06	BDN 1.3	Providing and applying french polish to new wood work, for required finishing including. knotting, preparing the surfaces, scaffolding etc. complete as directed.	Bd.N.1.3 Page No. 399	Square Metre	197.00	153.00
1055	Wood Finish	34.07	BDN 1.4	Providing and applying varnish in one coat on previously varnished wood work including knotting, preparing the surface, scrapping, scaffolding, etc. complete.	Bd.N.1.4 Page No. 400	Square Metre	33.00	17.00
1056	Wood Finish	34.08	BDN 1.4	Providing and applying Varnish in two coats on new wood work including knotting, preparing the surface, scaffolding etc. Complete.	Bd.N.1.4 Page No. 400	Square Metre	51.00	25.00
1057	Wood Finish	34.09	BDN	Providing and applying melamine polish of required finish to the wood work by spray machine including knotting and preparing the even surface by scraping, applying French polish , scaffolding if required etc. complete. Note:The work to be executed on prior approval of Superintending Engineer will be necessary.	As directed by Engineer-in charge.	Square Metre	690.00	433.00
1058	Wood Finish	34.10	BDN	Providing and applying coal tar in one coat on previously coal tarred wood including preparing the surface, scaffolding etc. complete. (coal tar shall be minimum 300 grams per Sqm.)	As directed by Engineer-in charge.	Square Metre	55.00	30.00
1059	Wood Finish	34.11	BDN	Providing and applying coal tar in two coats on new wood work including preparing the surface, scaffolding etc. complete. (coal tar shall be minimum 500 grams per Sqm.)	As directed by Engineer-in charge.	Square Metre	87.00	45.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1060	Oil Painting	35.01	BDO 1	Providing and applying two coats of lead/zinc base oil paint/bituminous paint of approved colour and shade to new wood work and fiber boards including preparing the surface, knotting, scaffolding if necessary, excluding primer coat etc. complete.	Bd.O. 1 Page No. 403	Square Metre	76.00	25.00
1061	Oil Painting	35.02	BDO 2	Providing and applying one coat of lead/zinc base oil paint/bituminous paint of approved colour and shade to old wood work previously painted and fiber boards including if necessary scaffolding, preparing surface excluding primer coat etc. complete.	Bd.O.2 Page No. 404	Square Metre	39.00	13.00
1062	Oil Painting	35.03	BDO 2A	Providing and applying two coats of lead/zinc base oil paint/bituminous paint of approved colour and shade to old wood work and fiber boards previously painted including if necessary scaffolding, preparing the surface excluding priming coat etc. complete.	Bd.O.2 Page No. 404	Square Metre	61.00	25.00
1063	Oil Painting	35.04	BDO 3	Providing and applying two coats of lead/zinc base oil paint/bituminous paint of approved colour to new structural steel work and iron work in buildings including scaffolding if necessary, cleaning and preparing the surface etc. complete. (excluding primer coat).	Bd.O.3 Page No. 404	Square Metre	76.00	28.00
1064	Oil Painting	35.05	BDO 4	Providing and applying one coat of aluminium paint of approved make to new structural steel work in building and workshop including scaffolding if necessary, cleaning and preparing surface (excluding primer coat) etc. complete.	Bd.O.4 Page No. 405	Square Metre	69.00	22.00
1065	Oil Painting	35.06	BDO 4A	Providing and applying 2 coats of aluminium paint of approved make to new structural steel work in buildings and workshops including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat)etc. complete.	Bd.O.4 Page No. 405	Square Metre	103.00	38.00
1066	Oil Painting	35.07	BDO 5	Providing and applying two coats of synthetic enamel paint of approved colour to new /old structural steel work and wood work in buildings, including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete.	Bd.O.5 Page No. 405	Square Metre	79.00	38.00
1067	Oil Painting	35.08	BDO 6	Providing and applying one coat of flat oil paint of approved colour to the old structural steel work and iron work previously painted in building including scaffolding, if necessary, cleaning and preparing surface (excluding primer coat) etc. complete.	Bd.O.6 Page No. 406	Square Metre	48.00	20.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1068	Oil Painting	35.09	BDO 6A	Providing and applying two coats of flat oil paint of approved colour to the old structural steel work and iron work previously painted in building including scaffolding, if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete.	Bd.0.6 Page No. 406	Square Metre	70.00	37.00
1069	Oil Painting	35.10	BDO 7	Providing and applying one coat of flat oil paint of approved colour and shade to internal / external plastered surfaces including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete.	Bd.0.7 Page No. 406	Square Metre	45.00	20.00
1070	Oil Painting	35.11	0	Providing and applying two coats (exterior quality) of flat oil paint of approved colour and shade to the plastered surface in buildings and workshops including scaffolding if necessary, cleaning the surface and preparing surface etc. complete. (excluding primer coat)	As directed by Engineer- in-charge.	Square Metre	73.00	35.00
1071	Oil Painting	35.12	BDO 7A	Providing and applying two coats of flat oil paint of approved colour and shade to internal / external plastered surfaces including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete.	Bd.0.7 Page No. 406	Square Metre	85.00	35.00
1072	Oil Painting	35.13	BDO 8	Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.	Bd.0.8 Page No. 406	Square Metre	72.00	47.00
1073	Oil Painting	35.14	0	Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to old plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.	As directed by Engineer- in-charge.	Square Metre	64.00	40.00
1074	Oil Painting	35.15		Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.	Spec.No.: Bd.O.8/Page No.406	Square Metre	86.00	54.00
1075	Oil Painting	35.16		Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to old plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.	Spec.No.: Bd.O.8/Page No.406	Square Metre	80.00	54.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1076	Oil Painting	35.18	BDO 8B	Removing old paint from steel and other metal surfaces and making the surfaces even with hand scrapping, scaffolding etc. complete.	As directed by Engineer in charge.	Square Metre	14.00	14.00
1077	Oil Painting	35.19	BDO 8C	Providing and applying priming coat over new wood and wood based surfaces, including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter, sand papering and knotting, scaffolding etc. complete.	As directed by Engineer in charge.	Square Metre	27.00	10.00
1078	Oil Painting	35.20	BDO 8D	Providing and applying priming coat over new/old steel and other metal surfaces including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and scoured with wire brushes, fine steel wool, scrappers and sand paper, scaffolding etc. complete.	As directed by Engineer in charge.	Square Metre	30.00	15.00
1079	Oil Painting	35.21	BDO 8E	Providing and applying priming coat on concrete/ masonry/ Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete.	As directed by Engineer in charge.	Square Metre	30.00	10.00
1080	Oil Painting	35.22	BDO 8F	Providing and applying one coat of seal cement primer of approved manufacture and shed including scaffolding preparing the surface by cleaning dirt and other foreign matters, scrapping if necessary including scaffolding etc. complete.	As directed by Engineer in charge.	Square Metre	17.00	12.00
1081	Oil Painting	35.23	BDO	Providing and applying pearl/ luster finish paint of approved colour and shade to the existing plaster surface including scaffolding, preparing the surface, applying the acrylic wall putti etc. complete.	As directed by Engineer in charge.	Square Metre	179.00	55.00
1082	Oil Painting	35.24	BDO	Providing and applying two coats of textured synthetic paint of approved shade and quality and one coat of primer before applying textured paint including scaffolding if necessary preparing surface by thoroughly cleaning oil, grease, dirt and other materials as required, etc. complete.	As directed by Engineer in charge.	Square Metre	137.00	22.00
1083	Oil Painting	35.25	BDO	Providing and applying two coats of exterior acrylic emulsion paint confirming to corresponding I.S. of approved manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface, applying primer coat ,scaffolding if necessary , and watering the surface for two days etc complete.	As directed by Engineer in charge.	Square Metre	215.00	137.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1084	Oil Painting	35.26	BDO	<p>Providing and applying two coats of exterior weather shield paint of approved manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface ,applying primer coat ,scaffolding if necessary, and watering the surface for two days etc complete.</p> <p>NOTE: For Item No. 15 to 18 prior approval of Superintending Engineer will be necessary</p>	As directed by Engineer in charge.	Square Metre	213.00	137.00
1085	Oil Painting	35.29	BDO	<p>Providing and applying external raincoat painting with crack filling acrylic polymer based chemical compound coating to the external surface of walls to prevent water seepage in the masonry walls during monsoon added with required shade Steiner to give required shade to the surface in two coats. Including providing three coat of priming of polymer base primer including preparing surface scrapping the existing loose old paint, removing loose particles of sand on the surface opening and cleaning the cracks developed in the external plaster, removing loose particles by chiseling, filling cracks by chemicals compound of approved make with proper penetration etc. Coating of Raincoat with the help of brush and as per instructions and specification given by manufacturer and with instruction from Engineer in-charge. Work shall be executed by certified applicator only and covering gurantee of 3 years on court stamp paper of Rs. 500/- and necessary testing etc. complete.</p>	As directed by Engineer in charge.	Square Metre	233.00	25.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1086	Colouring	36.02	BDP 1	Providing and applying white-wash in one coat on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.	Bd.P.1 Page No. 411	Square Metre	6.00	4.40
1087	Colouring	36.03	BDP 1A	Providing and applying white-wash in two coats on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.	Bd. P. I Page No. 411	Square Metre	9.30	5.90
1088	Colouring	36.04	BDP 2	Providing and applying colour-wash of approved colour and shade in one coat to new surface including scaffolding, brushing and brooming down (excluding base coats of white wash) etc. complete.	Bd. P.2 Page No. 412	Square Metre	7.50	4.80
1089	Colouring	36.05	BDP 2A	Providing and applying colour-wash of approved colour and shade in two coats to new surface including scaffolding, brushing and brooming down (excluding base coat of white-wash) etc. complete.	Bd.P.2 Page No. 412	<u>Square Metre</u>	14.80	8.50
1090	Colouring	36.06	BDP 3	Providing and applying colour-wash of approved colour and shade in one coat to old surfaces which are to be recoloured including scaffolding, brushing and brooming down. (excluding base coat of white wash) etc. complete.	Bd.P.3 Page No. 412	Square Metre	6.40	3.90
1091	Colouring	36.07	BDP 3A	Providing and applying colour-wash of approved colour and shade in two coats to old surfaces which are to be recoloured including scaffolding, brushing and brooming down. (excluding base coat of white-wash) etc. complete.	Bd.P.3 Page No. 412	Square Metre	12.70	8.40
1092	Colouring	36.08	BDP 4	Providing and applying washable powder distemper of approved colour and shade to old and new surfaces in one coat including scaffolding, preparing the surfaces (excluding the priming coat)etc. complete.	Bd.P.4 Page No. 413	Square Metre	15.80	4.80
1093	Colouring	36.09	BDP 4A	Providing and applying washable powder distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat) etc .complete.	Bd. P.4 Page No. 413	Square Metre	23.70	10.00
1094	Colouring	36.10	BDP 5	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in one coat including scaffolding, preparing the surfaces. (excluding the primer coat.)etc. complete.	Bd. P.5 Page No. 413	Square Metre	26.10	10.40

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1095	Colouring	36.11	BDP 5A	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete.	Bd.P.5 Page No. 413	Square Metre	39.50	14.40
1096	Colouring	36.12	BDP 6	Providing and applying plastic emulsion paint of approved quality, colour and shade to old and new surfaces in two coats including scaffolding, preparing the surface. (excluding the primer coat)etc. complete.	Bd.P.6 Page No. 414	Square Metre	66.50	18.40
1097	Colouring	36.13	BDP 6A	Providing and applying plastic emulsion paint of approved quality, colour and shade to old surface in three coats including scaffolding, preparing the surface. (excluding primer coat) etc. complete.	Bd.P.6 Page No. 414 and Pre-approval of Superintending Engineer	Square Metre	83.60	21.80
1098	Colouring	36.14	BDP 6A	Providing and applying plastic emulsion paint of approved quality, colour and shade to new surface in three coats including scaffolding, preparing the surface. (excluding primer coat) etc. complete.	Bd.P.6 Page No. 414 and Pre-approval of Superintending Engineer	Square Metre	93.90	32.20
1099	Colouring	36.15	BDP	Washing and cleaning of decorated wall surfaces with soap, soda and water etc. complete.	As directed by Engineer in charge.	Square Metre	2.30	2.30
1100	Colouring	36.16	BDP	Providing and applying plastic emulsion paint of approved quality, colour and shade to old and new surfaces in single coat including scaffolding, preparing the surface. (excluding the primer coat)etc. complete.	Bd.P.6 Page No. 414	Square Metre	47.70	11.00
1101	Colouring	36.19	BDP	Scrapping the old plastered internal surface with sand paper and coating the entire surface with mixture of whiting or glue and linseed oil including scaffolding etc. complete as directed.	As directed by Engineer in charge.	Square Metre	28.70	25.50

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1102	Colouring	36.20	BDP	Providing and applying interior wall finish luster of approved make on internal wall surface as detailed below Scrapping the surface with emery paper and wipe clean. Applying Asian / Berger / Nerolac / Duuex Paints or equivalent wall primer with brush with mineral turpentine with brush 8 to 10% and oil 15 to 20% with roller and allowing to dry for a period 6 to 8 hours. Applying Asian / Berger / Nerolac / Dulex Paints or equivalent Acrylic wall putty with appropriate proportion of water allowing to dry for period 4 to 6 hours. Scrapping with Emery paper 180 and wipe clean. Applying Asian / Berger / Nerolac / Dulux Paints or equivalent wall primer with brush with mineral turpentine 8 to 10% and oil 15 to 20% with roller Scrapping Emery paper 320 and wipe clean, Applying Asian / Berger / Nerolac / Dulux Paints or equivalent interior wall finish luster 1st coat with brush/rubber/spray with mineral turpentine 7 to 9% and Oil with roller 19 to 21% After 8 hours of activity Applying 2nd coat of Asian / Berger / Nerolac / Dulux Paints or equivalent interior wall finish Lustre with mineral turpentine 7 to 9 % with brush and Oil with roller 19 to 21% after allowing dry for the period of 6 to 8 hours activity. (With prior approval of S.E.)	As directed by Engineer in charge.	Square Metre	203.00	103.00
1103	Colouring	36.21	BDP	Providing and applying Royale Luxury Emulsion of approved make on internal wall surface as detailed below Scrapping for surface with emery paper and wipe clean for area. Applying Asian / Berger / Nerolac / Dulex Paints or equivalent wall primer with brush by adding mineral turpentine oil by 8 to 10 % or water by 15 to 20% allowing to dry for 6 to 8 hoursAfter applying Asian / Berger / Nerolac / Dulex Paints or equivalent acrylic wall putty with appropriate prpportion of water of allow to dry for period of 4 to 6 hours of activity. Scrapping with emery paper and wipe clean Applying paints Royale Luxury emulsion 1st coat with brush water content water 40 to 45% or 65 to 70% by role Applying paints Royale luxury emulsion 2nd coat with brush with water content 40 to 45 % or 65 to 70 % by roller. (With prior approval of S.E.)	As directed by Engineer in charge.	Square Metre	228.00	105.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1104	Wood Work	37.01	BDQ 1	Providing and fixing <u>Indian</u> teak wood planking 25 mm thick for flooring plained on both sides, tongued and grooved including scaffolding, if necessary, and one coat of primer etc. complete.	Bd.Q. 1 Page No. 419	Square Metre	2794.00	125.00
1105	Wood Work	37.02	BDQ 1A	Providing and fixing <u>Indian</u> teak wood planking 50 mm thick for flooring plained on both sides, tongued and grooved including scaffolding, if necessary, and one coat of primer etc. complete.	Bd.Q.1 Page No. 419	Square Metre	5495.00	114.00
1106	Wood Work	37.03	BDQ 2	Providing and fixing <u>Indian</u> teak wood joists and girders in timber floors of single, double or framed type including scaffolding if necessary, and one coat of primer etc. complete.	Bd.Q.2 Page No. 420	Cubic Metre	103573.00	1255.00
1107	Wood Work	37.04	BDQ 2A	Providing and fixing Jungle (hard) wood of approved species joists and girders in timber floor of single, double or framed type including scaffolding if necessary and one primer coat etc. complete.	Bd.Q.2 Page No. 420	Cubic Metre	54710.00	4225.00
1108	Wood Work	37.05	BDQ 3	Providing and fixing Indian teak wood plank ceiling 20 mm thick plain underside tongued and grooved including iron screws, scaffolding, if necessary, including one primer coat on under side and one coat of coal tar on upper side etc. complete.	Bd.Q.3 Page No. 421	Square Metre	2377.00	188.00
1109	Wood Work	37.06	BDQ 4	Providing and fixing Indian teak wood framed collar beam / king post / queen post truss, with all Iron work including scaffolding, if necessary, and one coat of primer etc. complete.	Bd.Q.4, Page No. 422	Cubic Metre	137584.00	29303.00
1110	Wood Work	37.07	BDQ 4A	Providing and fixing in teak wood framed collar beam / king post / queen post truss, with all iron work including scaffolding, if necessary and primer coat etc. complete.	Bd.Q.4, Page No. 422	Cubic Metre	77544.00	29303.00
1111	Wood Work	37.08	BDQ 5	Providing and fixing country teak wood common rafters, purlins and purlin cleats, hip rafters, jack rafters, ridges, wall plates, post plates and posts for roofing etc. including scaffolding, if necessary, all iron work and one coat of primer etc. complete.	Bd.Q.5, Page No. 423	Cubic Metre	124701.00	12550.00
1112	Wood Work	37.09	BDQ 5A	Providing and fixing teak wood common rafters, purlins and purlin cleats, hip rafters, jack rafters, ridges, wall plates, post plates and posts for roofing, etc. including scaffolding, if necessary all iron work and one coat of primer etc. complete.	Bd.Q.5, Page No. 423	Cubic Metre	63769.00	12550.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1113	Wood Work	37.10	BDQ 8	Providing and fixing teak wood hand rail of 60 mm x 75 mm as per detailed drawings or as directed by the Engineer, including french polishing, etc. complete. (Note : The work to be executed on preapproval of Superintending Engineer).	Bd.Q.8, Page No. 425	Running Metre	1048.00	376.00
1114	Wood Work	37.11	0	Providing and fixing country teak wood two way trellis work with battens or laths 2.5 cm x 1.2 cm and 5 cm x 5 cm openings including frame of 8 cm x 5 cm vertical and horizontal scantlings and coat of primer etc. complete.	Bd/Q-6 P-424	Square Metre	1721.00	125.00
1115	Wood Work	37.12	0	Providing and fixing hard wood of approved species two way trellis work with battens or laths 2.5 cm x 1.2 cm and 5 cm x 5 cm openings including frame of 8 cm x 5 cm vertical and horizontal scantlings and coat of primer etc. complete.	Bd/Q-6 P-425	Square Metre	787.00	125.00
1116	Wood Work	37.13	BDQ 18	Providing and fixing decorative teak plywood veneer lining 4 mm thick with backing of teak wood frame work of battens 12 mm X 25 mm at 30 cm center to center fixed to walls and pillars with 12 mm thick plywood building without skirting and cornice as per drawings including necessary iron work and finishing the exposed wood work with french polish etc. complete.	Bd.Q. 18 Page No. 431	Square Metre	1062.00	270.00
1117	Wood Work	37.14	0	Providing and fixing 20 mm thick superior veneer board pelmet box 150 to 200 mm wide to doors or window frames including 20mm dia. Aluminium curtain rod with sockets and finishing with french polishing (without top)etc. complete.	As directed by Engineer- in-charge.	Square Metre	3322.00	1711.00
1118	Wood Work	37.15	0	Providing and fixing 20 mm thick Laminated sheet board pelmet box 150 to 200mm wide to doors or window frames including 20 mm dia. Aluminium curtain rod with sockets and finishing with french polishing (without top) etc.complete.	As directed by Engineer- in-charge.	Square Metre	3012.00	1711.00
1119	Wood Work	37.16	BDQ 19	Providing and fixing <u>Indian</u> teak wood eaves boards 15 cm wide and 25 mm thick plain decorative type including scaffolding and painting with two coats etc. complete.	Bd.Q. 19 Page No. 432	Running Metre	565.00	125.00
1120	Wood Work	37.17	BDQ 19A	Providing and fixing seasoned and treated jungle wood of approved species eaves board 15 cm wide and 25 mm thick plain decorative type including scaffolding and painting with two coats etc. complete.	Bd.Q. 19 Page No. 432	Running Metre	388.00	136.00
1121	Wood Work	37.18	BDQ 20	Providing and fixing Teak wood eaves plate of size 10cm wide and 20 mm thick including scaffolding and painting in two coats etc. complete.	Bd.Q.20 Page No. 432	Running Metre	298.00	75.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1122	Wood Work	37.19	BDQ 21	Providing and fixing country teak wood barge board 22 cm wide and 20mm thick plain type including scaffolding and painting in two coats etc. complete.	Bd.Q.21 Page No. 433	Running Metre	623.00	125.00
1123	Wood Work	37.20	BDQ 21A	Providing and fixing seasoned and treated jungle wood of approved species barge board 22 cm wide and 20 mm thick plain type including scaffolding and painting in two coats etc. complete.	Bd.Q.21 Page No. 433	Running Metre	369.00	125.00
1124	Wood Work	37.21	BDQ	Providing and fixing shutter to wall cupboard made from 19 mm thick Teak particle board with approved coloured laminated face 1.5 mm thick bonded with phenol formaldehyde synthetic resin B.W.P. grade including lipping beading iron oxidised fixtures and fastening and oil primer coat etc. complete. (Excluding cupboard frame).	As directed by Engineer in charge.	Square Metre	2955.00	135.00
1125	Wood Work	37.22	BDQ	Providing and fixing Shutter to wall Cupboard consisting of Teak Wood styles and Rails 25 mm thick and 75 mm wide with panel insert of 12 mm thick particle Board with one approved coloured Laminated Face on one side 1.5 mm thick, bonded with Phenol Formaldehyde Synthetic Resin including Lipping Beading. Iron oxidised fixtures and fastening and oil primer coat etc. complete. (Excluding cupboard frame).	As directed by Engineer in charge.	Square Metre	3173.00	169.00
1126	Wood Work	37.23	BDQ 22	Providing and fixing jungle wood ballies of approved species 85 mm average dia. for common rafters, purlins, ridges, hip and valley rafters, jack rafters, wall plates, post plates, posts etc. including all iron work scaffolding if necessary and oiling in one coat etc. complete.	Bd.Q.22/Page No.434	Running Metre	414.00	127.00
1127	Wood Work	37.24	BDQ 23	Providing and fixing 100 mm dia. Country teak wood ballies for post truss of 6.00 m. span as per drawing or as directed by Engineer-in-charge including all iron work, scaffolding if necessary and oiling etc. complete.	Bd.Q.22/Page No.434	Running Metre	279.00	32.00
1128	Wood Work	37.25	3 BDN 12 B	Providing and applying Wax polishing to the old wood work including knotting, preparing the surface, scaffolding etc. complete as directed.	Bd.N.1.2/Page No.399	Square Metre	46.00	33.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1129	Wood Work	37.26	BDQ	Providing and fixing 3.5 to 4 mm thick Veneer finish wall Panaling made out of 50 x 25 mm (finished size) C.C.T.W. frame work or size of 600 x 600 mm center or as per site condition covered by 6 mm thick marine plywood of the requisite manufacture viz Anchore / Century / Kenwood /Duro / jet or equivalent generally confirming to I:S 710-1980 finished with 3.5 to 4 mm thick matching Veneer of approved color and in satin walnut groov matched veneer pattern and design including melamine polishing & design with antitermite treatment etc. to plywood and woodwork with ten years guarantee bond etc. including all lead and lifts complete as per Architects Drawing and instructions of Engineer Incharge.	As directed by Engineer in charge.	Square Metre	3978.00	1857.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1130	Roofing and Ceiling	38.01	BDR 1	Providing and fixing Mangalore tiled roofing with class 'AA' tiles including securing the last course of tiles near the eaves with steel flat 40 mm x 3 mm and 1.22 mm wire fixing 50 mm x 25 mm horizontal teak wood battens and iron works and oiling the battens etc. complete. (Excluding ridge and hip tiles).	Bd.R.1, Page No. 449	Square Metre	950.00	119.00
1131	Roofing and Ceiling	38.02	BDR 2	Providing and fixing Mangalore tiled roofing with class 'AA' tiles including securing the last course of tiles near the eaves with steel flat 40 mm x 3 mm and 1.22 mm wire fixing country teak wood sloping battens of 25 x 12 mm teak wood horizontal battens of 50mm x 25mm over the slopping battens, all iron work and coal tarring the battens etc. complete (Excluding ridge and hip tiles).	Bd.R.2, Page No. 450	Square Metre	965.00	125.00
1132	Roofing and Ceiling	38.03	BDR 3	Providing and fixing Mangalore tile ridge and hip tiles of class 'AA' including scaffolding if necessary, pointing with coloured cement mortar and curing etc. complete.	Bd.R.3, Page No. 450	Running Metre	243.00	127.00
1133	Roofing and Ceiling	38.04	BDR 5	Providing and fixing corrugated galvanised iron sheets of 0.63mm thick (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron screws and bolts, lead and bitumen washers as per drawing etc. complete.(Weight of 5.5 kg/sq.m.).	Bd.R.5, Page No. 453	Square Metre	733.00	94.00
1134	Roofing and Ceiling	38.05	BDR 5	Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanised iron screws and bolts, lead and bitumen washers etc. complete.(Weight of 6.8 kg/sq.m.).	Bd.R.5, Page No. 453	Square Metre	1016.00	114.00
1135	Roofing and Ceiling	38.06	BDR 7	Providing and fixing 6.00 mm thick ISI mark Asbestos Cement Corrugated sheet roofing including galvanised iron 'J' or 'L' hook bolts galvanised iron band bituminous G.I. washers, galvanised iron clamps, bolts, nuts and scaffolding etc. complete.	Bd. R.7, Page No. 453	Square Metre	350.00	158.00
1136	Roofing and Ceiling	38.07	BDR 9	Providing and fixing 6 mm thick ISI mark Asbestos Cement ridge capping for roofing including galvanised iron hooks, bolts, galvanised iron and bituminous washers, galvanised iron clamps, bolts, nuts including scaffolding etc. complete.	Bd.R.9, Page No. 455	Running Metre	515.00	168.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1137	Roofing and Ceiling	38.08	BDR 10	Providing and fixing valley gutter of 22 B.W.G. (0.8 mm) plain galvanised iron sheets 120 cm wide with teak wood planking 20 mm thick including two coats of coal-tarring the upper surface of plank etc. complete. (excluding painting to underside of plank).	Bd. R. 10, Page No. 455	Running Metre	2462.00	357.00
1138	Roofing and Ceiling	38.09	BDR 10A	Providing and fixing valley gutter of 22 B.W.G. (0.8 mm) plain galvanised iron sheets 90 cm wide with teak wood planking 20 mm thick including two coats of coal-tarring the upper surface of plank etc. complete. (excluding painting to underside of plank).	Bd. R. 10, Page No. 455	Running Metre	1858.00	382.00
1139	Roofing and Ceiling	38.10	BDR 10B	Providing and fixing valley gutter of 24 B.W.G. (0.63 mm) thick G.I. sheet 120 cm wide with 20 mm thick teak wood planking underneath coal tarring etc. complete.	Bd. R. 10, Page No. 455	Running Metre	2241.00	255.00
1140	Roofing and Ceiling	38.11	BDR 11	Providing and fixing glass tiles of Mangalore type at required places in Mangalore tile roof including scaffolding if necessary etc. complete.	Bd. R. 11, Page No. 456	Number	563.00	61.00
1141	Roofing and Ceiling	38.12	BDR 13	Providing and fixing Mangalore pattern cowl ventilator tiles in the required places in a Mangalore tiled roof including scaffolding if necessary etc. complete.	Bd. R. 13, Page No. 459	Number	326.00	36.00
1142	Roofing and Ceiling	38.13	BDR 16	Providing and fixing false ceiling of plain asbestos cement sheets 4 mm thick with teak wood beadings 45 x 12 mm with frame work of teak wood battens of size 70 x 60 mm at 1.00 M center to center including scaffolding, if necessary, all iron work and painting (visible surfaces) to A.C. sheet and beading in two coats etc. complete. (excluding T.W. runner to be paid separately).	Bd.R.16, Page No. 460	Square Metre	1559.00	196.00
1143	Roofing and Ceiling	38.14	BDR	Providing and fixing frame work of anodised aluminium sections for suspended false ceiling consisting of aluminium T 50 mm x 40 mm weighing 0.39 kg/m. at 60 cms c/c and fixed with ( 15 x 15 mm) flanges weighing 0.119 kg/m suspended on 6 mm dia. mild steel rod weighing 0.22 kg/m fixed on wall and beams including rounding of the edges with aluminium T of 50 mm x 40 mm weighing 0.39 kg/m etc. including all labour etc. complete.	As directed by Engineer in charge.	Square Metre	1022.00	637.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1144	Roofing and Ceiling	38.15	BDR	Providing and fixing frame work of galvanised iron for suspended false ceiling which includes galvanised iron perimeter channels of size 27 mm and 0.5 mm thick having one flange of 20 mm and another of 30 mm along with perimeter of the ceiling, fixing in brick wall / partition with the help of rawal plugs and screws, suspending galvanised iron intermediate channels of size 45 mm and 0.9 mm thick with two flanges of 15 mm each from the soffit at 1200 mm centers with steel galvanised iron hanger of width 25 mm x 0.5 mm fasteners, ceiling section of 0.5 mm thickness having curved wedge of 51.5 mm and two flanges of 26 mm each with lips of 10.5 mm fixed to the intermediate channel with the help of connecting clips and in direction perpendicular to the intermediate channel at 450 mm centers, 12.5 mm dry walls screws at 230 mm centers; fixing screws mechanically either with screw driver or drilling machine with suitable attachment etc. complete.	As directed by Engineer in charge.	Square Metre	962.00	641.00
1145	Roofing and Ceiling	38.16	BDR 17	Providing and fixing false ceiling of teak wood particle board half perforated sheet 12 mm thick including scaffolding, if necessary, all iron work and two coats of oil painting to boards and beading i.e. visible surface etc. complete. (excluding frame work and runners)	Bd. R. 17 Page No. 461	Square Metre	818.00	259.00
1146	Roofing and Ceiling	38.17	BDR	Providing and fixing false ceiling of 10 to 12 mm thick decorative boards of fibrous plaster of paris including scaffolding if necessary all architectural work like mouldings, cornices, coves, domes, cups as per detailed drawings and three coats of spray painting to boards etc. complete. (excluding frame work, runners and mild steel suspenders).	As directed by Engineer in charge.	Square Metre	996.00	382.00
1147	Roofing and Ceiling	38.18	BDR 19	Providing and fixing false ceiling of 12mm thick as per drawings including powder coated G.I. wall angle of 20mm x 20mm size, G.I. grid runners of size 20mm x 38mm at 600mm center to center both ways and suspended using G.I. 3mm wire including fixing using butterfly clips and fasteners including transporting, scaffolding all necessary labour and machinery, finishing etc. complete.	Bd. R. 19 Page No. 462	Square Metre	1193.00	573.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1148	Roofing and Ceiling	38.19	BDR	Providing and fixing false ceiling of 15mm thick as per drawings including powder coated G.I. wall angle of 20 mm x 20 mm x 0.60 mm size, G.I. grid runners of size 15 mm x 38 mm at 600 mm center to center both ways and suspended using G.I. 3 mm wire including fixing using butterfly clips and fasteners including transporting, scaffolding all necessary labour and machinery, finishing etc. complete.	As directed by Engineer in charge.	Square Metre	1356.00	629.00
1149	Roofing and Ceiling	38.20	BDR 17	Providing and fixing false ceiling of T.W. partical board half perforated sheets 12 mm thick with frame work of M.S. angle 40 x 40 x 5 mm and T of size 40 x 40 x 6 mm at 60 cm center to center including 12 mm dia. hangers, T.W. battens 50 x 25 mm and beading 25 x 15 mm thick scaffolding, if necessary, all iron work and two coats of painting to boards and beading i.e. visible surface etc. complete.	Bd. R. 17, Page No. 461	Square Metre	1307.00	283.00
1150	Roofing and Ceiling	38.21	BDR 17	Providing and fixing False ceiling of 12 mm thick Laminated board with frame of M.S. angle 40 x 40 x 5 mm and Tee of size 40 x 40 x 6mm at 60 cm c/c including 12 mm dia. hangers, T.W. battens 50 x 25 mm and beading 25 x 15 mm thick scaffolding if necessary, all Iron work etc. complete.	Bd. R. 17, Page No. 461	Square Metre	1917.00	283.00
1151	Roofing and Ceiling	38.22	BDR	Providing and applying two coats of bitumen to roof on new dungaree cloth one coat on each side etc. complete as directed.	As directed by Engineer in charge.	Square Metre	96.00	43.00
1152	Roofing and Ceiling	38.23	BDR	Providing and applying one coat of bitumen to roof (without cloth) including scaffolding etc. complete as directed.	As directed by Engineer in charge.	Square Metre	40.00	30.00
1153	Roofing and Ceiling	38.24	BDR	Removing and resetting Mangalore tiles from roof including refixing loose battens etc. complete.	As directed by Engineer in charge.	Square Metre	77.00	75.00
1154	Roofing and Ceiling	38.25	BDR	Removing the tiles, battens and dungry cloth purlins, rafters and ridges etc. from roof, sorting out the serviceable and unserviceable materials and stacking the same as and where directed in the compound, scaffolding etc. complete.	As directed by Engineer in charge	Square Metre	57.00	57.00
1155	Roofing and Ceiling	38.26	BDR	Removing G.I. or A.C. sheet roofing including purlins, principal rafters etc. including sorting serviceable and unserviceable materials, stacking the same as and where directed in the compound including scaffolding etc. complete.	As directed by Engineer in charge.	Square Metre	71.00	71.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1156	Roofing and Ceiling	38.27	BDR	Removing and lowering the roof truss carefully without damaging the members and stacking as and where directed in the compound including scaffolding etc. complete.	As directed by Engineer in charge.	Number	620.00	620.00
1157	Roofing and Ceiling	38.28	BDR	Removing R.S. girders of any size and span lowering the same and stacking neatly wherever directed in the compound scaffolding etc. complete.	As directed by Engineer in charge.	Metric Tonne	1927.00	1927.00
1158	Roofing and Ceiling	38.29	BDR	Providing fixing <u>country</u> teak wood battens 50 mm x 25 mm for Mangalore tile roof work with all iron work scaffolding and oiling the battens etc. complete.	As directed by Engineer in charge.	Running Metre	101.00	16.00
1159	Roofing and Ceiling	38.30	BDR	Providing fixing teak wood battens 25 mm x 12 mm for Mangalore tile roof work with iron work scaffolding and oiling the battens etc. complete.	As directed by Engineer in charge.	Running Metre	41.00	20.00
1160	Roofing and Ceiling	38.31	BDR	Providing and fixing sky light in R.C.C. roof including frame made of M.S. angle 50 x 50 x 6 mm with hold fast, sheet glass <u>12 mm</u> thick, Chicken mesh 24 gauge with all accessories and required fixtures and fastening fitting including painting etc. complete.	As directed by Engineer in charge.	Square Metre	1100.00	99.00
1161	Roofing and Ceiling	38.32	BDR	Providing and fixing 12 mm dia. mild steel bar upto 0.5 M. length for anchor rods with necessary threading nuts and bolts etc. complete.	As directed by Engineer in charge.	Number	109.00	87.00
1162	Roofing and Ceiling	38.33	BDR 3	Providing fixing Mangalore tile roofing with class AA tiles in cement mortar 1:4 on sloping slab including necessary scaffolding, curing, finishing, etc. complete.	Bd. R. 3A., Page No. 449	Square Metre	815.00	367.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1163	Roofing and Ceiling	38.34	BDR	Providing and fixing colour coated Zinalume ( R ) AZ150 ( min 150 gms/sq.mt. total on each side ) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness ( BMT ) (0.5 mm TCT ), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND ( R ) steel quality super durable polyester paint coat ( with inorganic pigment). The paint shall have a total coating thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capillary groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. complete. (weight of profile 4.52 kg/sqm)	As directed by Engineer in charge.	Square Metre	978	95

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1164	Roofing and Ceiling	38.35	BDR	Providing and fixing of colour coated Zincoaluminium( R ) AZ150 ( min 150 gms/sq.mt. total on each side ) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness ( BMT ) (0.5 mm TCT ), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated withAluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND ( R ) steel quality super durable polyster paint coat ( with inorganic pigment). The paint shall have a total coating thickness of nominal 35 mm, comprising of nominal 25mm exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with sublet square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capacity groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. including fasteners with min. fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. complete. (weight of profile 4.52 kg/sqm) 600 mm girth (Surface Width).	As directed by Engineer in charge.	Running Meter	625	57



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1165	Roofing and Ceiling	38.36	BDR	Providing and fixing of colour coated Zinc aluminium ( R ) AZ150 ( min 150 gms/sq.mt. total on each side ) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness ( BMT ) ( 0.5 mm TCT ), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy ( 55% aluminium 43.4% zinc 1.6% silicon ) with COLORBOND ( R ) steel quality super durable polyster paint coat ( with inorganic pigment). The paint shall have a total coating thickness of nominal 35 um, comprising of nominal 25um exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capacity groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. including fasteners with min. fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. complete. (weight of profile 4.52 kg/sqm) 900 mm girth (Surface Width).	As directed by Engineer in charge.	Running Meter	890	86
1166	Roofing and Ceiling	38.37	BDR	Providing and fixing UPVC Roof made up of 3 layers roofing material of thickness 2mm having width of 1130 mm and of required Length having Tensile strength not less than 330 kg/cm <sup>2</sup> , including fastening with self drilling screw having washers made of stainless steel etc. complete.	As directed by Engineer in charge.	Square Metre	1329.00	94.00
1167	Roofing and Ceiling	38.38	BDR	Providing and fixing PVC coloured Ridge tiles over UPVC roofing where required having size 113cm x 41cm and height 9.5 cm for ridge including fastening with self drilling screw having washers made of stainless steel etc. complete.	As directed by Engineer in charge.	Square Metre	1144.00	56.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1168	Roofing and Ceiling	38.39	BDR	<p>Providing and fixing 15 mm thick eco-friendly densified edge calcium silicate false ceiling of approved texture spintone/cosmos/hexa or equivalent of size 595mm x 595mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanising at @12 gm/sq.m including both sides)consisting of main T runner suitably spaced at joints to get required length and size 24X38mm. made from 0.33mm thick(minimum ) sheet, spaced 1200mm center to center and cross T of size 24X28mm made of 0.33mm thick(minimum ) sheet to be interlocked at the middle of the 1200x600 mm panel to form the grid of size 600x600mm resting on periphery walls/partitions on a perimeter wall angle precoated steel of size 24x24x3000 made of 0.4 mm thick (minimum) sheet with the help of all plugs at 450mm and laying 15 mm thick densified edges calcium silicate ceiling tiles of approved texture (spintone/cosmos/hexa) in the grid, including light fittings , fixtures , smoke detectors etc., wherever required. Main T runners suspended from ceiling with using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling using 12.5mm dia. And 50mm long dash fasteners, 4mm G.I. adjustable rods with galvanized steel levels clips of size 85x30x0.8mm, spaced at 1200mm center to center along main T bottom exposed with 24mm of all T-sections shall be prepainted with polyester baked paint, for all heights, as per specifications, drawings etc. complete.(currently this item should be used only for VIP cabins)</p>	As directed by Engineer in charge.	Square Metre	1923.00	326.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1169	Roofing and Ceiling	38.40	BDR	Providing and fixing false ceiling with eco-friendly light-weight calcium silicate tiles of spintone surface texture aerolite make or equivalent of size 595mm x 595mm having 15mm thick densified micro look edge and 100% humidity resistance incombustible as per BS 46part IV and thermal conductivity 0.043 w/m 0 KC and NRC 0.50 placed in true horizontal level suspended grid of size 600x600mm made from hot dipped G.I. steel sections ion silhouette profile, rotary stitched double webbed white with 6mm reveal profile (white/black), wherein, main T runner of size 42mmx14mm between main tee 600mm center-to-center and secondary cross T of size 33x14x0.43mm thick of length 600mm long spaced inter-locked at middle of the first crossed T in each panel to form grid of 1200mmx600mm resting on periphery wall Profile wall section 19mm (7+7) x 19mmx0.40thicknesses and laying false ceiling for services like diffusers grills including cutting, making opening for light fittings, fixtures, , smoke detectors etc., wherever required. Main T runners suspended from ceiling with using G.I. soffit cleats of size 25x35x1.6 mm of required length fixed to the ceiling with 6mm dia and 50mm long dash fastener, 4mm dia G.I. adjustable rods with powder-coated/good quality G.I. level adjustment clips of 35x35x0.8mm spaced @1200, center-to-center along main T all complete at all heights as per the specifications, drawings and as per the directions of Engineer-in-charge.	As directed by Engineer in charge.	Square Metre	2138.00	326.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1170	Roofing and Ceiling	38.41	BDR	Providing and fixing self supporting steel roofing system for a Godown or alike made up of structural grade steel sheet of 912 millimeter width ( tolerance +/- 2 millimeter ), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels . The interlocking panels shall be pressed to close the seam forming water tight joints for a span of 15.30 meter having arch rise as 3.06 meter, arch length 17.75 meter. The base material made up of imported galvalume steel complying to ASTM A792 having base metal thickness of 0.80 millimeter ( tolerace + / - 0.02 millimeter ) with alloy coating AZ 150 and paint coating of regular modified polyster , top coat 25 micron and bottom coat 12 micron as per approved colour , including fixing hangers , clamps etc.as may be necessary of Proflex standard, including fixing sky light of 2 millimeter thick polycarbonate sheet of size 2' x 7' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing, testing and cleaning etc. complete.	As directed by Engineer in charge.	Square Metre	1713.00	318.00
1171	Roofing and Ceiling	38.42	BDR	Providing and fixing self supporting steel roofing system for a Godown or alike made up of structural grade steel sheet of 912 millimeter width ( tolerance + / - 2 millimeter ), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels . The interlocking panels shall be pressed to close the seam forming water tight joints for a span of 21.30 meter having arch rise as 4.26 meter, arch length 25.13 meter. The base material made up of imported galvalume steel complying to ASTM A792 having base metal thickness of 1.00 millimeter ( tolerace + / - 0.02 millimeter ) with alloy coating AZ 150 and paint coating of regular modified polyster , top coat 25 micron and bottom coat 12 micron as per approved colour , including fixing hangers , clamps etc.as may be necessary of Proflex standard, including fixing sky light of 2 millimeter thick polycarbonate sheet of size 2' x 14' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing , testing and cleaning etc. complete.	As directed by Engineer in charge.	Square Metre	1773.00	318.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1172	Roofing and Ceiling	38.43	BDR	Providing and fixing self supporting steel roofing system for a Godown or alike made up of structural grade steel sheet of 912 millimeter width ( tolerance + / - 2 millimeter ), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels . The interlocking panels shall be pressed to close the seam forming water tight joints for a span of 25.00 meter having arch rise as 5.00 meter, arch length 29.00 meter The base material made up of imported galvalume steel complying to ASTM A792 having base metal thickness of 1.20 millimeter ( tolerace + / - 0.02 millimeter ) with alloy coating AZ 150 and paint coating of regular modified polyster , top coat 25 micron and bottom coat 12 micron as per approved colour , including fixing hangers , clamps etc.as may be necessary of Proflex standard, including fixing sky light of 2 millimeter thick polycarbonate sheet of size 2' x 14' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing , testing and cleaning etc. complete.	As directed by Engineer in charge.	Square Metre	1862.00	318.00
1173	Roofing and Ceiling	38.44	BDR	Providing and fixing self supporting steel roofing system for a Godown or alike made up of structural grade steel sheet of 912 millimeter width ( tolerance + / - 2 millimeter ), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels . The interlocking panels shall be pressed to close the seam forming water tight joints for a span of 28.75 meter having arch rise as 5.75 meter, arch length 33.92 meter. The base material made up of imported galvalume steel complying to ASTM A792 having base metal thickness of 1.40 millimeter ( tolerace + / - 0.02 millimeter ) with alloy coating AZ 150 and paint coating of regular modified polyster , top coat 25 micron and bottom coat 12 micron as perapproved colour , including fixing hangers , clamps etc.as may be necessary of Proflex standard, including fixing sky light of 2 millimeter thick polycarbonate sheet of size 2' x 14' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing , testing and cleaning etc. complete.	As directed by Engineer in charge.	Square Metre	2111.00	318.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1174	Roofing and Ceiling	38.45	BDR	Providing and Fixing of Mineral Fibre Board Acoustical Suspended Ceiling System with ultima (Bevelled Tegular) Edge Tiles of size 15mm Exposed GRID. The tiles should have Humidity Resistance (RH) of 99%, NRC 0.7, Light Reflectance 85%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Colour White, Fire Performance UK Class 0 / Class 1 (BS 476 pt - 6 &7) in module size of 600 x 600 x 20mm , suitable for Green Building application, with Recycled content of 32%. The tile shall be laid on precoated G.I.channel on XL2 Clip having a web height of 32 mm with 15 mm wide T - section flanges colour white having rotary stitching on all T sections i.e. the Main Runner, 1200 mm and 600 mm Cross Tees with a web height of 32 mm and a load carrying capacity of 7.7 Kgs/M2 and minimum pull out strength of 100 Kgs.. The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system. The Tile and Grid system used together should carry a 10 year warranty. products approved as per GRIHA and BS 476 etc. complete.	As directed by Engineer in charge.	Square Metre	1953.00	191.00
1175	Roofing and Ceiling	38.46	BDR	Providing and Fixing of Mineral Fibre Suspended Ceiling System with Bioguard (Bevelled Tegular) EDGE TILES WITH 15mm Exposed GRID. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance 90%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Colour White, Fire Performance UK Class 0/Class 1 (BS 476 Part 6 and 7), in module size of 600x600 x 16mm with Anti Microbial coating on the face of the tile, suitable for Green Building application, with Recycled content of 34%. The tile shall be laid on precoated G.I. channel on XL2 Clip having a web height of 32 mm 32 with 15 mm wide T - section flanges colour white having rotary stitching on all T sections i.e. the Main Runner and 1200 mm Cross Tees with a web height of 32 mm and a load carrying capacity of 7.7 Kgs/M2 and pull out strength of 100Kgs. . The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system The Tile and Grid system used together should carry a 10 year warranty. products approved at GRIHA and BS 476 etc. complete.	As directed by Engineer in charge.	Square Metre	1684.00	191.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1176	Roofing and Ceiling	38.47	BDR	Providing and Fixing Soft Fibre Acoustical Suspended Ceiling System with Optra (Bevelled Tegular) Edge Tiles of size 15mm Exposed Grid. The tiles should have Humidity Resistance (RH) of 95%, NRC 0.9 - 1.0, Light Reflectance 78.5%, Colour White, Fire Performance UK Class 0 / Class 1 (BS 476 pt - 6 &7) in module size of 600 x 600 x 15mm , suitable for Green Building application, with Recycled content of 66% GW and 74% RW. The tile shall be laid on pre-coated G.I channel 32 with 15 mm wide T - section flanges colour white having rotary stitching on all T sections i.e. the Main Runner, 1200 mm and 600 mm Cross Tees with a web height of 32 mm and a load carrying capacity of 7 Kgs/M2 with a minimum pull out strength of 100 kgs. The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system The Tile and Grid system used together should carry a 10 year warranty. products approved as per GRIHA and BS 476 etc. complete.	As directed by Engineer in charge.	Square Metre	2380.00	166.00
1177	Roofing and Ceiling	38.48	BDR	Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5 mm thickness in Global white color tile to be laid on grid systems with 15mm wide T - section flanges color white having rotary stitching on the Main Runner, 1200 mm and 600 mm Cross Tees. Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5 mm thickness in Global white color tile to be laid on grid systems with 15mm wide T - section flanges color white having rotary stitching on the Main Runner, 1200 mm and 600 mm Cross Tees.products approved as per GRIHA and BS 476 etc. complete.	As directed by Engineer in charge.	Square Metre	1572.00	191.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1178	Roofing and Ceiling	38.49	BDR	Providing and Fixing Mineral Fibre Acoustical Suspended Ceiling System with Dune (Bevelled Tegular) Edge Tiles of size 15mm Exposed Grid. The tiles should have Humidity Resistance (RH) of 99%,NRC 0.5, Light Reflectance 85%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Colour White, Fire Performance UK Class 0 / Class 1 (BS 476 pt - 6 & 7) in module size of 600 x 600 x 16mm , with Recycled content of 35 %. The tile shall be laid on pre-coated G.I.channel height 32 with 15 mm wide T - section flanges colour white having rotary stitching and XL2 CLIP on all T sections i.e. the Main Runner, 1200 mm and 600 mm Cross Tees with a web height of 32mm and a load carrying capacity of 7.57 Kgs/M2 and pull out strength of minimum 100 Kgs.. The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system. The Tile and Grid system used together should carry a 10 year warranty.approved as per GRIHA and BS 476 etc. complete.	As directed by Engineer in charge.	Square Metre	1522.00	166.00
1179	Roofing and Ceiling	38.50	BDR	Providing and Fixing Mineral Fibre Acoustical Suspended Ceiling System with Fine Fissured (Bevelled Tegular) Edge Tiles of size 15mm Exposed Grid. The tiles should have Humidity Resistance (RH) of 99%,NRC 0.6, Light Reflectance 85%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Colour White, Fire Performance UK Class 0 / Class 1 (BS 476 pt - 6 & 7) in module size of 600 x 600 x 16mm , with Recycled content of 31 %. The tile shall be laid on pre-coated G.I channel height of 32 with 15 mm wide T - section flanges colour white having rotary stitching and XL2 CLIP on all T sections i.e. the Main Runner, 1200 mm and 600 mm Cross Tees with a web height of 32mm and a load carrying capacity of 7.57 Kgs/M2 and pull out strength of minimum 100 Kgs.. The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system. The Tile and Grid system used together should carry a 10 year warranty. product approved in GRIHA and BS 476 etc. complete.	As directed by Engineer in charge.	Square Metre	1338.00	166.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1180	Roofing and Ceiling	38.51	BDR	Providing and fixing in position Gypsum board false ceiling with 12.5 mm thick Gypsum boards, screwed/fixed to the under structure of suspended G.I. Grid constructed and suspended from the main ceiling consisting of ceiling sections of size 25 x 50 mm maximum center to center distance of 600 milimetre perimeter channel and intermediate channels at maximum center to center distance 1200 milimetre galvanized grid should be fixed to reinforced cement concrete slab. The gypsum board should be fixed to galvanized iron grid with necessary screws. The boards should be taped and filled from underside to give smooth, seamless ceiling. The rate should include necessary additional ceiling sections and intermediate channels. Additional intermediate channels should be fixed to strap hangers for additional support to prevent strapping at every 1200 milimetre item to be completed in all respect including necessary sleeves for ducts finishing of joints cut outs, painting including labour, material, lifts etc. all complete.	As directed by Engineer in charge.	Square Metre	1423.00	790.00
1181	Roofing and Ceiling	38.52	BDR	Providing and fixing Modular false ceiling of 600 x 600 mm center to center and 13 mm thick square mineral fiber board to be fixed on frame work of alluminium sections for suspended false ceiling consisting of alluminium T 2"x1 ½" (50 mm x 40 mm) weighing 0.39 kg/m at 60 cms center center and fixed with ½" x ½" (15 x 15 mm) flanges weighing 0.19 kg/m suspended on 6 mm dia mild steel rod weighing 0.22 kg/m, fixed on wall and beams including rounding of the edges with alluminium T of 2" x 1 ½" (50 mm x 40 mm) weighing 0.39 kg/m etc. (all alluminium sections shall be anodized) including all labour, material, lifts etc. complete.	As directed by Engineer in charge.	Square Metre	2033.00	702.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1182	Doors and Windows	39.01	BDT	Providing and fixing frame with / without ventilator of size as specified with Country cut teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete	As directed by Engineer in charge.	Cubic metre	164576.00	1859.00
1183	Doors and Windows	39.02	BDT	Providing and fixing frame with / without ventilator of size as specified with Country non teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete.	As directed by Engineer in charge.	Cubic metre	88036.00	108.00
1184	Doors and Windows	39.03	BDT-4	Providing and fixing the Country cut teak wood second class fully glazed openable fanlight rectangular in shape as per detailed drawing excluding the frame, stainless steel fixtures and fastenings and finishing the wood work with 3 coats of oil painting.	BD-T-4 Page No. 479	Square Metre	4086.00	1705.00
1185	Doors and Windows	39.04	BDT 7 and 8	Providing and fixing Country cut teak wood double or single leaf second class fully panelled door shutter with 35mm thick style and rail with 25 mm thick panels with openable fan light as per detailed drawings. Excluding the door frame 60mm x 100mm stainless steel fixtures and fastening and finishing the wood work with oil painting 3 coats. (Excluding the door frame)	BD-T-7 and 8 Page No. 481-82	Square Metre	7828.00	2278.00
1186	Doors and Windows	39.05	BDT-11	Providing and fixing Country cut teak wood single leaf panelled door shutter without fanlight and 25mm thick as per drawing consisting of T.W. top rail size 100mm x 25mm and bottom lock rail 200mm x 25mm insert pannel 12 mm thick commercial ply faced T.W. particle board with phenol formaldehyde synthetic resin (Generally conforming to ISI 3097) excluding frame, including stainless steel fixture and fastening and T.W. beading to junctions of panelled inserts and as instructed by the Engineer in charge including 3 coats of oil painting etc. complete.	As directed by Engineer in charge.	Square Metre	4823.00	1377.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1187	Doors and Windows	39.06	BDT-11	Providing and fixing single leaf panelled door shutter without fanlight and shutter 35 mm thick as per drawing consisting of T.W. top rail size 100mm x 35 mm and bottom and lock rail 200mm x 35mm insert panel 12 mm thick commercial ply faced T.W. particle board with phenol formaldehyde synthetic resin (Generally conforming to ISI 3097) excluding frame, including stainless steel fixtures fastening and T.W. beading at junction of panels inserts and as instructed by the Engineer in charge including 3 coats of oil painting etc. complete.	As directed by Engineer in charge.	Square Metre	6703.00	1954.00
1188	Doors and Windows	39.07	BDT-11	Providing and fixing single or double leaf panelled door shutter excluding frame with glazed openable fanlight shutter 35 mm thick as per detailed drawing consisting panelled vertical styles 100 mm x 35 mm and lock and bottom rail 200 mm x 35 mm and panels 12 mm thick both side commercial ply faced particle board including stainless steel fixtures and fastening and T.W. beading at junctions of panel inserts and as instructed by the Engineer in charge including 3 coats of oil painting etc. complete.	As directed by Engineer in charge.	Square Metre	5935.00	2062.00
1189	Doors and Windows	39.08	BDT-12	Providing and fixing Country cut teak wood double or single leaf panelled shutters, 35 mm thick style top and freze rail 95 x 35 thick with lock and bottam rail 195 x 25 mm thick and panels without ventilator as per detailed drawing excluding the door frame, stainless steel fixtures and fastening and finishing the wood work with oil painting 3 coats complete	BD-T-11 and 12 Page No. 482-83	Square Metre	7781.00	2086.00
1190	Doors and Windows	39.09	BDT-34	Providing and fixing solid core flush door shutter in single leaf 32 mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3 mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete.	BD-T-34 Page No. 499	Square Metre	2494.00	592.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1191	Doors and Windows	39.10	BDT-36	Providing and fixing solid core flush door shutter commercial in single leaf 32 mm thick without ventilator commercial type of exterior grade as per detailed drawings with wrought iron hold fast, stainless steel fixtures and fastenings and handles on both sides and finishing with oil painting 3 coats complete.	BD-T-36 Page No. 500	Square Metre	2326	680
1192	Doors and Windows	39.11	BDT	Providing and fixing solid core flush door commercial type on single leaf 16 mm thick Bison Panel cement bonded particle Board including Teak wood lipping beading on all four edges without ventilator commercial type of exterior grade as per detailed drawings with wrought iron hold fast, stainless steel fixtures and fastenings and handles on both sides and finishing with oil painting three coats complete.	As directed by Engineer in charge.	Square Metre	3021	683
1193	Doors and Windows	39.12	BDT-39	Providing and fixing Country cut teak wood single leaf door shutter with teak wood style and rail of 25 mm thick including fixing 50 mm x 25 mm size welded mesh of 10 gauge as per detailed drawing or as directed with stainless steel fixture and fastening finishing with 3 coats of oil painting etc. complete.	BD-T-39 Page No. 500	Square Metre	4470	698
1194	Doors and Windows	39.13	BDT	Providing and fixing factory made panelled door shutter in single leaf 35 mm thick style and rail without ventilator with CCTW panels 12 mm thick including wrought iron hold fast and stainless steel fixtures with oil painting 3 coats etc. complete.	As directed by Engineer in charge.	Square Metre	2128	446
1195	Doors and Windows	39.14	BDT	Providing and fixing Country cut teak wood single leaf panelled door shutters 35 mm thick style and rail and 19 mm thick T.W. panels as per detailed drawing including wrought iron hold fast stainless steel fixtures and fastening and three coats of oil painting etc. complete.	As directed by Engineer in charge.	Square Metre	3948	575
1196	Doors and Windows	39.15	BDT-42	Providing and fixing fully glazed double leaf window shutter with openable fanlight including Country cut teak wood 25 mm thick style and rails with plain / obscured glass panels 5 mm thick as per drawing or as directed by the Engineer in charge with stainless steel fixtures and fastening and finishing the wood work with oil painting three coats etc. complete.	BD-T-42 Page No. 503	Square Metre	3839	1194

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1197	Doors and Windows	39.16	BDT-42	Providing and fixing Country cut teak wood window with double leaf half glazed and half panelled shutter with style 70 x 20 mm thick rails 95 x 20 mm thick and pannels 15mm thick with ventilator including wrought iron hold fast, stainless steel fixtures and fastenings and finishing the wood work with oil painting 3 coats etc. complete.	BD-T-42 Page No. 503	Square Metre	4449	1203
1198	Doors and Windows	39.17	BDT-43	Providing and fixing Country cut teak wood windows with double leaf 25 mm thick planked shutters without ventilators as per detailed drawings including stainless steel fixtures and fastenings and finishing the wood work with oil painting 3 coats etc. complete	BD-T-43 Page No. 503	Square Metre	5463	908
1199	Doors and Windows	39.18	BDT-43	Providing and fixing Country cut teak wood windows / ventilators with double leaf panelled shutters 25 mm thick without ventilators as per detailed drawing including stainless steel fixtures and fastenings and finishing the wood work with oil painting 3 coats etc. complete.	BD-T-43 Page No. 503	Square Metre	6339	1010
1200	Doors and Windows	39.19	BDT-53	Providing and fixing steel window of various sizes as per detailed drawing without hot dip zinc coating, without ventilators, including fabricating / glazing with plain / obscured glass panels of approved type and quality, iron oxidised fixtures and fastenings, oil painting two coats complete.	BD-T-53 Page No. 509	Square Metre	3408	1154
1201	Doors and Windows	39.20	BDT-53	Providing and fixing steel window of various sizes as per detailed drawing without hot dip zinc coating, without ventilators, including fabricating / glazing with plain / obscured glass panels of approved type and quality, iron oxidised fixtures and fastenings, finishing with oil painting two coats complete (with guard bars 12 mm square at 10 cm c/c.)	BD-T-53 Page No. 509	Square Metre	3551	770

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1202	Doors and Windows	39.21	BDT	Providing and fixing steel window C.R.C. sheet as per I.S. 1513 : 1986. gauge sect. 65 x 40 x 25 mm shutter single sheet of 24 gauge single leaf joined by fusion welding at appropriate points with vertical grooves of 15 mm wide and 15 mm deep at a distance of 45 mm. The first and last rib should be 60 mm away from vertical edge of the shutter. the shutter shall be welded, with angle to from the periphery of the shutter. At the center of the frame there shall be angle welded to bifurcate the frame into segments with two leaf shutter square 12 mm square guard bars at 120 mm center with all accessories	As directed by Engineer in charge.	Square Metre	3150	1095
1203	Doors and Windows	39.22	BDT	Providing and fixing in position factory made box type steel window with glazed fanlight including steel windows of cold rolled section of 105mm x 60mm x 1.25mm thick frame section filled with cement concrete (1:2:4) and metal pressed steel shutters of 20 gauge (1mm) as per detailed drawing and design or as directed including providing horizontal mild steel 12mm square bars at 10cm center to center, required F7B section, section 76, section 20mm x 5mm mild steel flat for shutter and F4B section for frame, 3mm thick glass of approved quality for fanlight necessary fixtures and fastening etc. complete finishing with one coat of anticorrosive paint etc.complete	As directed by Engineer in charge.	Square Metre	4230	830
1204	Doors and Windows	39.23	BDT	Providing and fixing in position factory made box type fully glazed window consisting of cold rolled section of 105mm x 60mm x 1.25mm thick frame section filled with cement concrete (1:2:4) and steel section F4B as per detailed drawing and design including mild steel 12mm square bars at 10cm center to center, required F7B section, section T6, section for shutter frame (Louvered clips in case of Louvered window portion) and 3mm thick glass of approved quality of necessary fixtures and fastening, finishing with one coat of anticorrosive paint etc. complete .	As directed by Engineer in charge.	Square Metre	3782	830

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1205	Doors and Windows	39.24	BDT-55	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (Without mechanical gear)	BD-T-55 Page No. 510	Square Metre	3796	675
1206	Doors and Windows	39.25	BDT-55	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (With mechanical gear)	BD-T-55 Page No. 510	Square Metre	4174	719

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1207	Doors and Windows	39.26	BDT-57	Providing and fixing collapsible steel gate in one / two leaves with hot rolled vertical channels of 18 x 9 x 3 mm minimum size, crossings of M.S. flats of size 18 x 5 mm T or E section for runner of minimum 40 x 6 mm size for flange, M.S. flat for top runner of minimum size 40 x 12 mm with roller wheels conforming to grade F.G. 150 fitted with snap headed rivets of minimum size 6 mm max. spacing of vertical channels be 100 mm enclosed gate position and clear space of 150 mm between two sets of crossings with hold fasts, stoppers, spaces, handles, locking arrangement and one coat of red lead primer and oil painting etc. complete. (I.S. 105211983).	BD-T-57 Page No. 511	Square Metre	2939	870
1208	Doors and Windows	39.27	BDT-67	Providing and fixing partition of welded mesh of 3 mm dia. wires 50 mm x 25 mm size mesh including integrated non teak seasoned wood frame 80 x 50 mm of vertical and horizontal scantling and finishing with oil painting 3 coats etc. complete	BD-T-67 Page No. 515	Square Metre	2178	697
1209	Doors and Windows	39.28	BDS	Providing and fixing sheet glass of 24 oz. for all size including putty etc. complete	BD-S Page No. 465 to 467	Square Metre	767	342
1210	Doors and Windows	39.29	BDT-53	Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain / obscured glass panes 5 mm thick and approved type and quality and iron oxidized fixtures and fastening oil paint 2 coats etc. complete.	BD-T-53 Page No. 509 As directed by Engineer in charge.	Square Metre	2480	643
1211	Doors and Windows	39.30	BDT-53	Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing with hot dip zinc coating including fabricating glazing with plain / obscured glass pans 5 mm thick and approved type quality and iron oxidized fixtures and fastening with guard square bars 12 mm 10 cm c/c and oil painting 2 coats etc. complete.	BD-T-53 Page No. 509 As directed by Engineer in charge.	Square Metre	3575	1226
1212	Doors and Windows	39.31	BDT	Providing and fixing M.S. grill door 24 kg/sqm of various size as per detailed drawings without hot dip coating, iron fixtures and fastenings and 3 coats of oil painting etc	As directed by Engineer in charge.	Square Metre	2441	959
1213	Doors and Windows	39.32	BDT	Providing and fixing CCTW beading of size 40 mm x 20 mm to the door frame including chamfering finishing with 3 coats of oil painting etc. complete	As directed by Engineer in charge.	Running metre	150	44



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1214	Doors and Windows	39.33	BDT	Providing and fixing steel frame of angle 50 x 50 x 6 mm size for window with 16 mm with mild steel bars horizontally at 10 cm c/c for ventilator portion and at 15 cm c/c for remaining portion with M.S. flat of size 40 x 6 mm vertical at center including iron hold fast boxes for fixing 40 x 6 mm vertical at center including iron hold fast boxes for fixing 40 x 6 mm vertical at center including iron hold fast boxes for fixing shutters including welding finishing painting etc. complete.	As directed by Engineer in charge.	Square Metre	2145	582
1215	Doors and Windows	39.34	BDT	Providing and fixing steel frame of angle 40 x 40 x 5 mm size for windows with 16 mm dia. mild steel bars horizontally at 10 cm c/c for ventilator portion and 15 cm c/c for remaining portion with M.S. flat of size 40 x 6 mm vertical at center including iron hold fast boxes for fixing 40 x 6 mm vertical at center including iron hold fast boxes for fixing shutters including welding finishing painting etc. complete.	As directed by Engineer in charge.	Square Metre	1692	626
1216	Doors and Windows	39.35	BDT	Providing and fixing steel frame door of angle 50 x 50 x 6 mm with mild steel bars 16 mm dia. horizontally at 10mm c/c for ventilator portion including iron hold fast boxes for fixing shutters including welding, finishing, painting etc. complete.	As directed by Engineer in charge.	Square Metre	1496	655
1217	Doors and Windows	39.36	BDT	Providing and fixing steel frame door of angle 40 x 40 x 5 mm with 16 mm dia. mild steel bars horizontally at 10cm c/c for ventilator portion including iron hold fast for the fixing shutters including welding, painting, finishing etc. complete.	As directed by Engineer in charge.	Square Metre	1320	655

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1218	Doors and Windows	39.37	BDT	Providing and fixing in position. (as per I.S.1868 / 1982) Aluminium sliding window of two tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 kg/Rmt. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 kg/Rmt. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. And handle section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc, complete. <b>With colour Anodising with box.</b>	As directed by Engineer in charge.	Square Metre	5671	2083
1219	Doors and Windows	39.38	BDT	Providing and fixing in position. (as per I.S.1868 / 1982) Aluminium sliding window of two tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 kg/Rmt. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 kg/Rmt. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. And handle section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc, complete. <b>With colour Anodising without box</b>	As directed by Engineer in charge.	Square Metre	5122	1781

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1220	Doors and Windows	39.39	BDT	Providing and fixing in position. (as per I.S.1868 / 1982) Aluminium sliding window of two tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 kg/Rmt. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 kg/Rmt. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. And handle section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc, complete. <b>With powder coating with box</b>	As directed by Engineer in charge.	Square Metre	5385	2083
1221	Doors and Windows	39.40	BDT	Providing and fixing in position. (as per I.S.1868 / 1982) Aluminium sliding window of two tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 kg/Rmt. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 kg/Rmt. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. And handle section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc, complete. <b>With powder coating without box</b>	As directed by Engineer in charge.	Square Metre	4924	1781

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1222	Doors and Windows	39.41	BDT	Providing and fixing in position (as per 1868 / 1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. and handle and top section 40 x 18 x 1.25 mm at weight o.417 kg/Rmt. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. <b>With colour Anodising with box</b>	As directed by Engineer in charge.	Square Metre	5164	1603
1223	Doors and Windows	39.42	BDT	Providing and fixing in position (as per 1868 / 1982) Aluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. and handle and top section 40 x 18 x 1.25 mm at weight o.417 kg/Rmt. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. <b>With colour Anodising without box</b>	As directed by Engineer in charge.	Square Metre	4744	1283

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1224	Doors and Windows	39.43	BDT	Providing and fixing in position (as per 1868 / 1982) Aluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. <b>With powder coating with box</b>	As directed by Engineer in charge.	Square Metre	4959	1603
1225	Doors and Windows	39.44	BDT	Providing and fixing in position (as per 1868 / 1982) Aluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. <b>With powder coating without box</b>	As directed by Engineer in charge.	Square Metre	4364	1283

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Doors and Windows	39.45	BDT	a) Supplying and fixing in position ----- Aluminium four track sliding windows with outer frame made from section of over all size 122 mm x 45 mm, bottom section with drain section track weighing 1.83 kg per metre and top and side section of size 122x 31.75 mm weighing 1.15 kg per running metre with shutter sections made of 18 mm x 40 mm size having average weight of 0.6 kg per running metre (or as required size) with change in proportionate weight, with 6 mm float glass in three equal panels and alluminium coated stainless steel mosquito net in one (2/3 of opening) panel fixed with new neoprene gasket, shutters to be provided with nylon encased stainless steel rollers, necessary locks and handles complete.				
1226		a		a) Colour anodized	As directed by Engineer in charge.	Square Metre	6558	1690
1227		b		b) Powder Coated	As directed by Engineer in charge.	Square Metre	6000	1690

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1228	Doors and Windows	39.47	BDT	<p>Providing and Fixing 30 MM thick BOTH SIDE PRELAMINATED SOLID PANEL PVC DOOR SHUTTER consisting of frame made out of M.S tubes of 19 guage thickness and, size 19 x 19 mm for styles and 15 x15 mm for the top and bottom rails, M.S frame shall have a coat of metel primer of approved make and manufacture. M.S frame shall be covered with heat mouled PVC 'C' channel made from 5 mm (+/0.25) thick prelaminated sheet of density 600 kg/cbm ,of size 30mm thickness 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45° angle on either side forming stiles ; and 5 mm thick ,95 mm wide PVC sheet out of which 75 mm shall be falt and 20 mm shall be tapered in 45 on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be falt and 20 mm shall be tapered on both sides to form lock rail.Top,bottom and lock rail shall be provided either side of the panel. An additional 5 mm (+/0.25) thick PVC strip of 20 mm width is to be stuck on the bottom side of the ' c ' channel prelaminated paneling of 5 mm (+/0.25) thick PVC sheet to be fitted inside the M.S. frame welded/ sealed to the styles and rails with 5 mm (+/0.25) x 30 mm PVC sheet beading on either side and joined together with solvent cement adhesive etc ,10 mm thickness (5 mm (+/0.25) x 2 nos ) 20 mm wide cross PVC sheet as gap insert for the rail and bottom rail. Door to be fixed to frames with 3 nos M.S.powder coated but hinges of size 100 mm x 25MM x 2mm using 32 mm long steel screws drilled suitable to pass through both the walls of the M.S tube. Other hardwares should be fixed with 19 x 6 mm size steel screws including fixture fasting. Complete as per direction of engineer in charge</p>	As directed by Engineer in charge.	Square Metre	5423	832

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1229	Doors and Windows	39.48	BDT	Providing and fixing 34 mm thick moulded door shutter consisting of solid core single leaf flush door of 30 mm thickness lipped with 15 mm ( 5mm x 3) thick x 30 mm width on one style and top rail and 10 mm (5mm x 2) thick x 30 mm width on other style and bottom rails. The inner panels laminated with 2 mm thick termite proof, water proof and fire resistant moulded PVC sheet with 2,4,6 design in different plain and /or prelim colours on one side after routing the moulded design on flush doors and 2 mm plain and /or pre lam PVC on other side using rubber adhesive on flush door and solvent cement adhesive on the PVC lipping etc. as per direction of Engineer in charge and manufacturers specification and drawing etc. complete.	As directed by Engineer in charge.	Square Metre	6144	832
1230	Doors and Windows	39.49	BDT	Providing and fixing cold rolled steel hollow door frame 105mm x 60mm for any sizes including hold fast hinges, tie members with red oxide and gray paint etc. complete as per I.S.I. specifications and code of practice prescribed including anticorrosive treatment as directed by the engineer.	As directed by Engineer in charge.	Running Metre	1510	357
1231	Doors and Windows	39.50	BDT	Providing and fixing in position aluminium openable window of any size as per detailed drawing and as directed by Engineer in charge with all necessary aluminum sections including necessary fixtures and fastening with 5 mm thick clear float glass etc. complete. a) Without powder coating Note While arriving at the rate of item of item weight at 6.90 kg/Sqm is considered.	As directed by Engineer in charge.	Square Metre	4352	1472
	Doors and Windows	39.51	BDT	Providing and fixing in position ----- aluminium openable window of any size as per detailed drawing and as directed by Engineer in charge with all necessary aluminium sections including necessary fixtures and fastening with 5 mm thick clear float glass etc. complete.				
1232			a	a) Colour anodized	As directed by Engineer in charge.	Square Metre	5308	1472
1233			b	b) Powder Coated	As directed by Engineer in charge.	Square Metre	4873	1472



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1234	Doors and Windows	39.52	BDT	Providing and fixing in position aluminium fixed window fully glazed of any size as per detailed drawing and as directed by Engineer in charge with all necessary aluminium sections including necessary fixtures and fastening such as 5 mm thick clear float glass etc. complete. <b>a) Without powder coating.</b> Note While arriving at the rate of item of item weight at 6.90 kg/Sqm is considered.	As directed by Engineer in charge.	Square Metre	4287	1178
	Doors and Windows	39.53	BDT	Providing and fixing in position ----- aluminium fixed window fully glazed of any size as per detailed drawing and as directed by Engineer in charge with all necessary aluminium sections including necessary fixtures and fastening such as 5 mm thick clear float glass etc. complete.				
1235			a	a) Colour anodized	As directed by Engineer in charge.	Square Metre	5013	1178
1236			b	b) Powder Coated	As directed by Engineer in charge.	Square Metre	4808	1178
1237	Doors and Windows	39.54	BDT	Providing and fixing in position aluminium partly openable and partly fixed window of any size as per detailed drawing and as directed by Engineer in charge with all necessary aluminium sections including necessary fixtures and fastening with 5 mm thick float glass etc. complete. a) Without powder coating Note While arriving at the rate of item of item weight at 6.90 kg/Sqm is considered.	As directed by Engineer in charge.	Square Metre	4848	1472
1238	Doors and Windows	39.55	BDT	Providing and fixing in position aluminium partly openable and partly fixed window of any size as per detailed drawing and as directed by Engineer in charge with all necessary aluminium sections including necessary fixtures and fastening with 5 mm thick float glass etc. complete. b) With powder coating Note While arriving at the rate of item of item weight at 6.90 kg/Sqm is considered.	As directed by Engineer in charge.	Square Metre	4975	1178

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1239	Doors and Windows	39.56	BDT	Providing and fixing M40 grade thick vibrated pull cast or similar type concrete frame with chamfer conforming to I.S. 65241983 having 6 mm dia. bars 3 Nos. And stirrups @250 mm c/c and fixing in wall with 6 Nos of hold fast of 12 mm dia bars 500 mm long including primer and oil painting etc, complete) frame size 60 mm x 100 mm .	As directed by Engineer in charge.	Running metre	757	329
1240	Doors and Windows	39.57	BDT	Providing and fixing M40 grade thick vibrated pull cast or similar type concrete frame with chamfer conforming to I.S. 65241983 having 6 mm dia bars 3 Nos. And strips @250 mm c/c and fixing in wall with 6 Nos. of hold fast of 12 mm dia bars 500 mm long including primer and oil painting etc, complete) frame size 60 mm x 125 mm	As directed by Engineer in charge.	Running metre	819	383
1241	Doors and Windows	39.58	BDT	Providing and fixing fiber glass reinforced polyster door shutter 30 mm thick as per IS 14856 (2000) (Reaffirmed 2006) without ventilator including chromium plated fixtures and fastening with chromium plated handles on both sides, etc complete	As directed by Engineer in charge.	Square Metre	2646	555
1242	Doors and Windows	39.59	BDT	Providing and fixing fiber glass reinforced polyster door shutter 35 mm thick as per IS 14856 (2000) (Reaffirmed 2006) without ventilator including chromium plated fixtures and fastening with chromium plated handles on both sides, etc complete.	As directed by Engineer in charge.	Square Metre	2812	459
1243	Doors and Windows	39.60	BDT	Providing and fixing acrylic plastic sheet panels of approved quality in required thickness plain clear or any colour or obscured linings in lieu of glass pans to doors/windows including providing and fixing clips, putty etc. complete. (a) 2.00 mm thick.	As directed by Engineer in charge.	Square Metre	1302	489
1244	Doors and Windows	39.61	BDT	Providing and fixing acrylic plastic sheet panels of approved quality in required thickness plain clear or any colour or obscured linings in lieu of glass pans to doors/windows including providing and fixing clips, putty etc. complete. (b) 3.00 mm thick.	As directed by Engineer in charge.	Square Metre	1517.00	489.00
1245	Doors and Windows	39.62	BDT	Providing and fixing 24 gauge plain aluminium sheet on the face of door shutter including cutting to required size and fixing the screws including making good the damages if any to existing door shutter and frame etc. complete as directed or as per detailed drawing	As directed by Engineer in charge.	Square Metre	942.00	416.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1246	Doors and Windows	39.63	BDT	Providing and fixing in position, Double shuttered aluminium extruded powder coated openable door of specified size with aluminium door frame of powder coated section 101.60 x 44.75mm , 3.18 mm thick and shutter comprising of powder coated section having bottom and lock rail of size 150 mm x 44.5 mm x 3.00 mm thick top rails 47.62 x 44.45 mm x 3.00 mm thick , vertical style 47.62 x 44.45 mm, 3.00 mm thick and for shutter plain glass panes 5 mm thick for top panels and 12mm thick both side laminated phenol bonded particle board panels for bottom panels etc. , I.S.I. mark , heavy duty, Hydraulic floor spring of 150 kg capacity , having heavy duty concealed lock, necessary beading, glazing clips, PVC gaskets, 250mm length aluminium tower bolts, 150mm dia. pad handle, etc. as per detailed design and drawing or as directed by engineer in charge including all materials , labours, and equipment etc.complete	As directed by Engineer in charge.	Square Metre	6952.00	1611.00
1247	Doors and Windows	39.64	BDT	Providing and fixing in position, Single shuttered aluminium extruded powder coated openable door of overall size 0.90 m x 2.40 m with aluminium door frame of powder coated section 101.60 x 44.75mm , 3.18 mm thick and shutter comprising of powder coated section having bottom and lock rail of size 150 mm x 44.5 mm x 3.00 mm thick top rails 47.62 x 44.45 mm x 3.00 mm thick , vertical style 47.62 x 44.45 mm, 3.00 mm thick and for shutter plain glass panes 5 mm thick for top panels and 12mm thick both side laminated phenol bonded particle board panels for bottom panels etc. , I.S.I. mark , heavy duty, Hydraulic floor spring of 150 kg capacity , having heavy duty concealed lock, necessary beading, glazing clips, PVC gaskets, 250mm length tower bolts, 150mm diam. pad handle, etc. as per detailed design and drawing or as directed by engineer in charge including all materials , labours, and equipment etc.Complete	As directed by Engineer in charge.	Square Metre	8284.00	3244.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1248	Doors and Windows	39.65	BDT	Providing and fixing in position, Single shuttered aluminium extruded powder coated openable door of overall size 0.90 m x 2.40 m with aluminium door frame of powder coated section 101.60 x 44.75mm , 3.18 mm thick and shutter comprising of powder coated section having bottom and lock rail of size 150 mm x 44.5 mm x 3.00 mm thick top rails 47.62 x 44.45 mm x 3.00 mm thick , vertical style 47.62 x 44.45 mm, 3.00 mm thick and for shutter plain glass panes 5 mm thick for top panels and 12mm thick both side laminated phenol bonded particle board panels for bottom panels etc. , I.S.I. mark , with bijagiri having heavy duty concealed lock, necessary beading, glazing clips, PVC gaskets, 250mm length tower bolts, 150mm diam. pad handle, etc. as per detailed design and drawing or as directed by engineer in charge including all materials , labours, and equipment etc. complete	As directed by Engineer in charge.	Square Metre	7566.00	3244.00
1249	Doors and Windows	39.66	BDT	Providing and fixing 50 mm x 50 mm Mild Steel square pipe framed steel windows of various sizes as per details with welded square bars 12 mm at 10 cm center to center without hot dip zinc coating without / with ventilator including fabrication, glazing with plain / obscured glass panes 5 mm thick of approved type and quality, all fixtures and fastenings and finishing with one coat of primer complete.	As directed by Engineer in charge.	Square Metre	2510.00	985.00
1250	Doors and Windows	39.68	BDT	Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 mm x 1.22 mm box type, 5 mm thick sheet glass louvers, of approved quality etc. complete.	As directed by Engineer in charge.	Square Metre	2670.00	1094.00
1251	Doors and Windows	39.69	BDT	Providing and fixing partitions made up of CCTW frame of size 75 mm x 50 mm at 60 cm c/c with 9 mm thick commercial ply and 4mm thick veneer on both sides with French polish etc. complete.	As directed by Engineer in charge.	Square Metre	4382.00	737.00
1252	Doors and Windows	39.70	BDT	Providing and fixing Country cut teak wood partly veneered and partly glazed partition with 75 mm x 50 mm frame at 60 cm center and 9 mm thick commercial ply on both sides, decorative veneer of 4 mm thick and plain glass 5 mm thick, including French polishing etc. complete	As directed by Engineer in charge.	Square Metre	2957.00	644.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1253	Doors and Windows	39.71	BDT	Providing and fixing welded mesh of 50 mm x 25 mm and (11 gauge) to Country cut teak wood frame work as per detailed drawing or as directed, iron fastening with one coat of primer, scaffolding, including TW frame work of 70 mm x 75 mm and covering CCTW battens of 45 mm x 10 mm etc. complete.	As directed by Engineer in charge.	Square Metre	1736.00	212.00
1254	Doors and Windows	39.72	BDT	Providing and fixing in position anodised extruded aluminum partitions, partly glazed and partly laminated having frame made out of extruded tubular section of size 40 mm x 60 mm with 12 mm thick three layered flat pressed teak wood particle board bonded with BWP type exterior grade phenol formaldehyde synthetic resin conforming to IS 128231990, laminated on both sides, Novateak or equivalent and 5 mm thick selected quality plain/ float glass panels fixed with aluminum glass clips 12 mm x 12 mm and rubber cushioning beading to glass partitions as per approved drawing etc. complete	As directed by Engineer in charge.	Square Metre	2870.00	821.00
1255	Doors and Windows	39.73	BDT	Providing and fixing in position extruded aluminium partitions having frame made out of extruded tubular section of size 65 mm x 40 mm with 12 mm thick three layered flat pressed teak wood particle board bonded with BWP type exterior grade phenol formaldehyde synthetic resin conforming to IS 129231990, laminated on both sides, Novateak or equivalent with aluminium glazing clips of size 12 mm x 12 mm (conical) as per drawing etc. complete.	As directed by Engineer in charge.	Square Metre	3092.00	982.00
1256	Doors and Windows	39.74	BDT	Providing and fixing fly proof mesh shutter to ventilator / window using CCTW members of size 45 x 22 mm for frame work and 35 x 22 mm for middle support and fixing fly proof mesh on it and covering TW battens of size 20 x 10 mm including priming and two coats of oil painting to the new wood and steel work and all labour charges including all fixture and fastenings etc. complete	As directed by Engineer in charge.	Square Metre	2923.00	728.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1257	Doors and Windows	39.75	BDT	Providing coloured anodising treatment to aluminium sections of the doors , windows, and ventilators including all the intermediate supports , side supports, screws and all the necessary fixtures with all leads, lifts, fixing charges etc. complete (Complete measurement on actual square meter basis of opening area shall be paid.)	As directed by Engineer in charge.	Square Metre	1047.00	608.00
1258	Doors and Windows	39.76	BDT	Providing and fixing aluminium grill diamond mesh type DG202 of 7.5 mm thick including fixing in position anodised aluminium frame section of 80 x 38 mm x 1.22 mm size box, cutting to the required size with all wastage , labour, lead lift etc. complete.	As directed by Engineer in charge.	Square Metre	4780.00	1428.00
1259	Doors and Windows	39.77	BDT	Providing and fixing in position Mild steel fixed staggered ( Z Type ) Ventilator as per detailed drawing with hot deep zink coating including fabricating with Mild steel 'Z 'Section of size 20mm x 25 mm and 3 mm thick at weight 1.42 Kg/Rmt,with stainless steel mosquito net of 304 Grade,4 mm thick float glass ?as directed by Engineer In charge including necessary welding, grinding, two coats of oil paint etc.complete	As directed by Engineer in charge.	Square Metre	2998.00	906.00
1260	Doors and Windows	39.78	BDT	Providing and fixing in position anodised (as per IS 1868/1982) Aluminium fixed staggered ( Z Type) Ventilator with aluminium rectangular pipe 63 mm x 38.10 mm x 1.22 mm at weight 0.650 Kg/Rmt, Aluminium angle of size 15 mm x 15 mm x 1 mm,aluminium channel of 9 mm sizes, S.S.mosquito net of 304 Grade,4 mm thick float glass per detailed drawing and as directed by Engineer in charge etc.complete.	As directed by Engineer in charge.	Square Metre	3024.00	883.00
1261	Doors and Windows	39.79	BDT	Providing and fixing welded mesh of 11 gauge wires having mesh size 50 mm x 25 mm including M.S Angle frame of size 35 mm x 35 mm x5 mm in position with oil painting 3 coats etc. complete	As directed by Engineer in charge.	Square Metre	1981.00	867.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1262	Doors and Windows	39.80	BDT	Providing and Fixing 32 mm thick One piece single moulded puff ABSTRONE BUTADYNE STYRINE (ABS) Door shutter for internal use including toilets made up of outer ABS sheet of 1.2 mm thick having puff insulation of 35 to 40 Kg/Cum.density and 10 mm dia.for steel bars 2 Nos., wooden block to receive fixtures, having M.S. hinges 100 mm length, M.S. handles 150 mm length and 10 mm dia sliding door bolt etc. complete	As directed by Engineer in charge.	Square Metre	4154.00	1516.00
1263	Doors and Windows	39.81	BDT	Providing and fixing 30mm thick SOLID PANEL PVC INTERNAL DOOR SHUTTER consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 40mm x 20mm for stiles ,top, lock and bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame shall be covered with 5mm thick heat molded PVC channel of size 30 x 100mm forming stiles, and 5mm thick, 125mm wide PVC sheets for top rail, lock rail and bottom rail on either side, and 15mm (5mm x 3) thick, 20mm wide cross PVC sheet as gap insert for top rail and bottom rail. Paneling of 10 mm thick prelam PVC sheet to be fitted in the M.S. frame welded / sealed to the stiles and rails with 30mm wide x 5mm thick PVC sheet beading on either side, and joined together with solvent cement adhesive etc. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the C Channel using PVC solvent cement adhesive. including stainless steel fixtures and fastening Complete as per direction of Engineerincharge,manufacturer'sspecification and drawing.	As directed by Engineer in charge.	Square Metre	5209.00	832.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1264	Doors and Windows	39.82	BDT	Providing and fixing 30mm thick PVC FLUSH L DOOR SHUTTER consisting of panel of hollow PVC profile of 20 mm thickness consisting frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm inserted inside the hollow section of stiles rails top and bottom rails and two 19x 19 mm MS tubes inserted horizontally inside the hollow profile section using 4/5 mm sheet using screws hollow profile shall be lipped with 10 mm (5mm x2) thick x 20 mm width on stiles and rails using solvent cement. The inner panel shall be laminated with 5mm thick termite proof waterproof plain /prelam PVC sheet using solvent cement on the both sides of the panel including stainless steel fixtures and fastening etc. Complete as per direction of Engineer incharge, manufacturers specification and drawing.	As directed by Engineer in charge.	Square Metre	5423.00	832.00
1265	Doors and Windows	39.83	BDT	Providing and fixing partition 4 mm thick Indian teak Veneer on one side and 6mm commercial type plywood on the other side including C.T.W. frame of 70 x 35 mm at 60 cm C/C on both ways, including finishing with French polishing to Veneer face and oil painting / french polishing to other face etc.complete. (without skirting)	As directed by Engineer in charge.	Square Metre	2656.00	435.00
1266	Doors and Windows	39.84	BDT	Providing and fixing partitions with 12 mm thick three layered flat pressed teakwood particle board both faces commercial bonded with phenol formal dehyde synthetic resin including CTW vertical 70 x 70 mm and top and bottom rail of 70 x 35 mm and covering batten of 20 x 10 mm at 1.00 metre apart on both ways or as directed including finishing with one coat of primer complete.	BD-T-63 Page No. 518	Square Metre	2902.00	440.00
1267	Doors and Windows	39.85	BDT	Providing and fixing partitions with 12 mm thick three layerd flat pressed teakwood commercial board compressed one face and other teak veneer bonded with phenol formaldehyde synthetic resin including CTW vertical 70 x 70 mm and top and bottom rail of 70 x 35 mm and covering batten of 20 x 10 mm at 1.00 metre apart on both ways or as directed including finishing with one coat of primer complete.	BD-T-63 Page No. 518	Square Metre	3483.00	440.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1268	Doors and Windows	39.86	BDT	Providing and fixing partition with 12mm thick three layered flat pressed veneer teak wood partial board with both faces teak veneer bonded with phenol formaldehyde synthetic resin including C.T.W. vertical 70 x 70 mm and top and bottom rail of 70 x 35 mm and covering battren of 20 x 10 mm at 1.00 metre apart on both ways or as directed including finishing with one coat of primer complete.	BD-T-68 Page No. 520	Square Metre	2614.00	677.00
1269	Doors and Windows	39.87	BDT	Providing and fixing in position C.C.T.W. brackets for weather sheds of section 70 x 45 mm with mortise and tenon joinery at 1.2 to 1.5 metre center to center or as directed and teak wood battens of required section, including fixing three numbers of iron nut and bolts to each bracket, necessary scaffolding and two coats of painting to wood work etc. complete.	As directed by Engineer in charge.	Cubic metre	114708.00	16517.00
1270	Doors and Windows	39.88	BDT	Providing and fixing 22 B.W.G. plain galvanised iron sheets on top of weather shed, including scaffolding, fixing by means of nut and bolts or as directed etc. complete. (Brackets of 70 x 45 mm to be paid separately)	As directed by Engineer in charge.	Square Metre	741.00	177.00
1271	Doors and Windows	39.89	BDT	Providing and fixing 22 B.W.G. plain FRP sheets on top of weather shed, including scaffolding, fixing by means of nut and bolts or as directed etc. complete. (Brackets of 70 x 45 mm to be paid separately)	As directed by Engineer in charge.	Square Metre	3144.00	177.00
1272	Doors and Windows	39.90	BDT	Providing and fixing 4 mm thick plain A.C. sheets (of IS std.) on top of the weather shed including scaffolding, fixing by means of nuts and bolts or as directed etc. complete as per detailed drawing (Brackets of 70 x 45 mm to be paid separately).	As directed by Engineer in charge.	Square Metre	475.00	177.00
1273	Doors and Windows	39.92	BDT	Providing and fixing country teak wood runner size 150 x 75 mm over partition, including rounding, fixing in the masonry where necessary beading on sides etc. complete.	As directed by Engineer in charge.	Running metre	1083.00	123.00
1274	Doors and Windows	39.93	BDT	Providing and fixing teak wood cover moulding 45 x 20 mm over doors and windows in the required shape and size as per drawing, including all mouldings and finishing with french polishing etc. complete.	As directed by Engineer in charge.	Running metre	150.00	29.00
1275	Doors and Windows	39.94	BDT	Providing and fixing aluminium grill (5.13 Kg/Sqm) decorative of various sizes as per detail drawing and specification etc. complete. (Prior permission to be obtained from S.E. before execution of this item) ( 5.13 Kg/Sqm)	As directed by Engineer in charge.	Square Metre	2251.00	796.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1276	Doors and Windows	39.95	BDT	Providing and fixing solid core flush door shutter in double leaf 32 mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3 mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete.	As directed by Engineer in charge.	Square Metre	2990.00	743.00
1277	Doors and Windows	39.96	BDT	Providing and fixing Country teak wood Four leaf paneled shutters, 35 mm thick style and rail and 25 mm thick panels without ventilator as per detailed drawing excluding the door frame, stainless steel fixtures and fastening and finishing the wood work with oil painting 3 coats complete	As directed by Engineer in charge.	Square Metre	6282.00	1093.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1278	Iron Work	40.01	BDU 1	Providing and fixing mild steel grill work for windows, ventilators etc. 20 kg/sqm as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.	Bd.U.1 Page No. 537	Square Metre	1528.00	252.00
1279	Iron Work	40.02	BDU 1A	Providing and fixing mild steel grill work for windows, ventilators, etc. 15 kg/sqm as per drawing including fixtures necessary welding and painting with one coat of anticorrosive paint and two coats of oil painting complete.	Bd.U.1 Page No. 537	Square Metre	1252.00	252.00
1280	Iron Work	40.03	BDU 2	Providing and fixing mild steel grill railing 20 kg/sq.m with teak wood hand rail of size 75mm x 60 mm.and sill of 75mm.x 25 mm.and newel posts for staircases, including fabricating, fixtures, erecting, painting the grill work with one coat of anti-corrosive paint and two coats of oil painting with approved colour and polishing the sill, hand rail and the newel post with french polish.	Bd.U.2 Page No. 537	Square Metre	2443.00	229.00
1281	Iron Work	40.04	BDU 2A	Providing and fixing mild steel grill railing 15 kg/sq.m with Ghanateak wood hand rail of size 75mm x 60 mm and sill of 75mm.x 25mm and newel posts for staircases, including fabricating, fixtures, erecting, painting the grill work with one coat of anticorrosive paint and two coats of oil painting with approved colours and polishing the sill, hand rail and the newel post with french polish.	Bd.U.2 Page No. 537	Square Metre	2205.00	229.00
1282	Iron Work	40.05	BDW	Providing and erecting Y type barbed wire fencing with seven rows of wire with 2.45 mm dia G.I. pipe ( Rezan/ concentiDeleted ire 0.75 mm dia ) with hot dip and G.I. coated hooks as per drawing supported on M.S. angle 50 x 50 x 6 mm at 2.5 mtr. c/c including fixing and fastening with wire, painting M.S. angles with one coat of red lead primer and two coat of oil paint etc. complete.	As directed by Engineer in charge.	Running Metre	697.00	141.00
1283	Iron Work	40.06	BDW	Providing and fixing 40mm diameter and 1.5 mm thick Stainless steel hand railing in S.S.304 Grade including fabricating ,fixtures, erecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete	As directed by Engineer Incharge	Running Metre	2930.00	1454.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1284	Iron Work	40.07	BDW	Providing and fixing 900mm high S.S.304 Grade Stainless steel railing with 40mm diameter and 1.5mm thick at top,40mm diameter and 1.5mm thick vertical supports spaced at 1.5m center to center and 8mm thick toughened glass including fabricating ,fixtures, erecting , necessary welding , grinding , finishing, buffing to stainless steel pipe etc. complete	As directed by Engineer Incharge	Running Metre	3636.00	760.00
1285	Iron Work	40.08	BDW	Providing and Fixing mat finish stainless steel (of 302 grade ) railing with top pipe of 50 mm dia. and vertical pipe of 38 mm dia at 0.60 m c/c or as required and horizontal pipes of 25 mm dia in three rows, all pipes of 2 mm thick including buffing,fabricating fixtures and fastening including pipe base of appropriate diameter and ball base of 75 mm dia above newel post of 75 mm diameter etc. complete (Prior approval of sample and brand by Ex.Engineer is necessary before use)	As directed by Engineer Incharge	Square Metre	3076.00	851.00
1286	Iron Work	40.09	BDW	Providing and fixing mild steel grill railing weighing 15 kg / sqm. with teak wood hand rail of size 75mm.x 60mm. and sill 75mm.x 25mm.and posts for verandah including fabricating, fixtures, erecting and painting the grill work with one coat of anticorrosive paint and two coats of oil paint and polishing the grill, hand rail with French polish. Spec. No. : Bd.U.3	As directed by Engineer Incharge	Square Metre	2263.00	630.00
1287	Iron Work	40.10	BDW	Providing and fixing mild steel grill railing weighing 15 kg / sqm. with PVC handrail cover and newel post for staircases, including fabricating, fixtures, drilling holes in concrete / other surface, erecting the grill work, necessary welding, fixing by nuts and bolts, fixing PVC handrail cover, with one coat of anticorrosive paint and two coats of oil painting with approved colour and shade, remaking the damaged surface, cleaning, etc. complete. Spec. No. : As directed by Engineer in charge.	As directed by Engineer Incharge	Square Metre	1987.00	630.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1288	Iron Work	40.11	BDW	Providing and fixing mild steel grill railing weighing 20 kg / sqm. with PVC handrail cover and newel post for staircases, including fabricating, fixtures, drilling holes in concrete / other surface, erecting the grill work, necessary welding, fixing by nuts and bolts, fixing PVC handrail cover, with one coat of anticorrosive paint and two coats of oil painting with approved colour and shade, remaking the damaged surface, cleaning, etc. complete. Spec. No. : As directed by Engineer in charge.	As directed by Engineer Incharge	Square Metre	2516.00	630.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1289	Water Supply and Sanitary Fitting	41.01	BDV 1	Providing and laying cast iron pipes of B class of 80mm diameter with sockets and spigot ends/ flanges and cast centrifugally / vertically including specials, laying pipes and back filling the trench complete including excavation.	Bd.V.1 Page No. 547	Running Metre	1119.00	95.00
1290	Water Supply and Sanitary Fitting	41.02	BDV 1A	Providing and laying cast iron pipes of B class of 100mm diameter with sockets and spigot ends/ flanges and cast centrifugally/vertically including specials, laying pipes and back filling the trench complete including excavation.	Bd.V.1 Page No. 547	Running Metre	1350.00	101.00
1291	Water Supply and Sanitary Fitting	41.03	BDV 1B	Providing and laying cast iron pipes of B class of 150mm diameter with sockets and spigot ends/ flanges and cast centrifugally/ vertically including specials, laying pipes and back filling the trench complete including excavation.	Bd.V.1 Page No. 547	Running Metre	2638.00	367.00
1292	Water Supply and Sanitary Fitting	41.04	BDV 2	Providing and making lead joints for 80mm diameter cast iron pipe line including lead and testing.	Bd.V.2 Page No. 549	Number	597.00	335.00
1293	Water Supply and Sanitary Fitting	41.05	BDV 2A	Providing and making lead joints for 100mm diameter cast iron pipes line including lead and testing.	Bd.V.2 Page No. 549	Number	649.00	335.00
1294	Water Supply and Sanitary Fitting	41.06	BDV 2B	Providing and making lead joints for 150mm diameter cast iron pipe line including lead and testing	Bd.V.2 Page No. 549	Number	707.00	335.00
1295	Water Supply and Sanitary Fitting	41.07	BDV 3	Providing and making flanged connection for the 80mm diameter cast iron pipe line including painting rubber insertion, nuts and bolts etc. complete.	Bd.V.3 Page No. 550	Number	192.00	69.00
1296	Water Supply and Sanitary Fitting	41.08	BDV 3A	Providing and making flanged connection for the 100mm diameter cast iron pipe line including painting rubber insertion, nuts and bolts etc. complete.	Bd.V.3 Page No. 550	Number	243.00	69.00
1297	Water Supply and Sanitary Fitting	41.09	BDV 3B	Providing and making flanged connection for the 150mm diameter cast iron pipe line including painting rubber insertion, nuts and bolts etc. complete.	Bd.V.3 Page No. 550	Number	286.00	103.00
1298	Water Supply and Sanitary Fitting	41.10	BDV 5	Providing and fixing on walls/ ceiling/ floors, 15 mm dia. heavy grade having embossed as ISI Mark galvanised iron pipes weight of 1.48 Kg/metre with necessary fittings. remaking good the demolished portion and applying primer of anti-corrosive oil paint 2 coats Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	357.00	105.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1299	Water Supply and Sanitary Fitting	41.11	BDV 5	Providing and fixing on walls/ ceiling/ floors 20 mm dia. heavy grade having embossed as ISI Mark galvanised iron pipes of 1.93 kg/meter with necessary fitting remaking good the demolished portion and applying primer of anti-corrosive oil paint, 2 coats Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551c	Running Metre	430.00	141.00
1300	Water Supply and Sanitary Fitting	41.12	BDV 5	Providing and fixing on walls/ ceiling/ floors, 25 mm dia. heavy grade having embossed as ISI Mark galvanised iron pipes weight of 3.01 Kg/meter with necessary fittings . remaking good the demolished portion and applying primer of anti-corrosive oil paint 2 coats Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	503.00	106.00
1301	Water Supply and Sanitary Fitting	41.13	BDV 5	Providing and fixing on walls/ ceiling/ floors, 32 mm dia. heavy grade having embossed as ISI Mark galvanised iron pipes weight of 3.89 Kg/meter with necessary fittings . remaking good the demolished portion and applying primer of anti-corrosive oil paint 2 coats Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	547.00	107.00
1302	Water Supply and Sanitary Fitting	41.14	BDV 5	Providing and fixing on walls/ ceiling/ floors, 40 mm dia. heavy grade having embossed as ISI Mark galvanised iron pipes weight of 4.49 Kg/meter with necessary fittings and remaking good the demolished portion and applying primer of anti-corrosive oil paint 2 coats Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	610.00	108.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1303	Water Supply and Sanitary Fitting	41.15	BDV 5	Providing and fixing on walls/ ceiling/ floors, 50 mm dia heavy grade having embossed as ISI Mark galvanised iron pipes weight of 6.33 Kg/meter with necessary fittings.and remaking good the demolished portion and primer of anti corrossive oil paint 2 coats Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5Page No. 551	Running Metre	786.00	109.00
1304	Water Supply and Sanitary Fitting	41.16	BDV 5	Providing and fixing on walls/ ceiling/ floors, 80 mm dia.heavy grade having embossed as ISI Mark galvanised iron pipes weight of 10.15 Kg/meter with necessary fittings. and remaking good the demolished portion and applying primer of anti-corrosive oil paint 2 coats Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	1259.00	113.00
1305	Water Supply and Sanitary Fitting	41.17	BDV 5	Providing and fixing on walls/ ceiling/ floors, 100 mm dia.heavy grade having embossed as ISI Mark galvanised iron pipes weight of 14.74 Kg/meter with necessary fittings. and remaking good the demolished portion and applying primer of anti-corrosive oil paint 2 coats Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	1397.00	115.00
1306	Water Supply and Sanitary Fitting	41.18	BDV 5	Providing and laying in trenches 15 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 1.25 kg/meter necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint, 2 coats Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	357.00	149.00
1307	Water Supply and Sanitary Fitting	41.19	BDV 5	Providing and laying in trenches 20 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 1.63 kg/meter necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint, 2 coats Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	425.00	184.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1308	Water Supply and Sanitary Fitting	41.20	BDV 5	Providing and laying in trenches 25 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 2.49 kg/meter necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint, 2 coats Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	458.00	184.00
1309	Water Supply and Sanitary Fitting	41.21	BDV 5	Providing and laying in trenches 32 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 3.20 kg/meter necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint, 2 coats Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	491.00	185.00
1310	Water Supply and Sanitary Fitting	41.22	BDV 5	Providing and laying in trenches 40 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 3.68 kg/meter necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint, 2 coats Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	554.00	192.00
1311	Water Supply and Sanitary Fitting	41.23	BDV 5	Providing and laying in trenches 50 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 5.17 kg/meter necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint, 2 coats Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	686.00	199.00
1312	Water Supply and Sanitary Fitting	41.24	BDV 5	Providing and laying in trenches 80 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 8.57 kg/meter necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint, 2 coats Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	953.00	202.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1313	Water Supply and Sanitary Fitting	41.25	BDV 5	Providing and laying in trenches 100 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 12.43 kg/meter necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint , 2 coats Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	1194.00	222.00
1314	Water Supply and Sanitary Fitting	41.26	BDV 7	Providing and fixing 15mm diameter water meter with non-return valve including strainer, sockets/ union nut including water meter box making locking arrangement and lock. [Without chamber].	Bd.V.7 Page No. 554	Number	3000.00	312.00
1315	Water Supply and Sanitary Fitting	41.27	BDV 7	Providing and fixing 20mm diameter water meter with non-return valve including strainer, sockets/ union nut including water meter box making locking arrangement and lock. (without chamber).	Bd.V.7 Page No. 554	Number	4108.00	312.00
1316	Water Supply and Sanitary Fitting	41.28	BDV 7	Providing and fixing 25mm diameter water meter with non-return valve including strainer, sockets/ union nut and including water meter box making locking arrangement and lock. [Without chamber].	Bd.V.7 Page No. 554	Number	5806.00	312.00
1317	Water Supply and Sanitary Fitting	41.29	BDV 7	Providing and fixing 40mm diameter water meter with non-return valve including strainer, sockets/ union nut and including water meter box making locking arrangements and lock. [Withoutchamber].	Bd.V.7 Page No. 554	Number	9665.00	937.00
1318	Water Supply and Sanitary Fitting	41.30	BDV 7	Providing and fixing 50mm diameter water meter with non-return valve including strainer, sockets/ union nut and including water meter box making locking arrangement and lock. [without chamber]	Bd.V.7 Page No. 554	Number	12312.00	937.00
1319	Water Supply and Sanitary Fitting	41.31	BDV 7	Providing and fixing 80mm diameter water meter with non-return valve including strainer, sockets/ union nut and including water meter box making locking arrangement and lock. [Without chamber].	Bd.V.7 Page No. 554	Number	21238.00	1249.00
1320	Water Supply and Sanitary Fitting	41.32	BDV 7	Providing and fixing 100mm diameter water meter with non-return valve including strainer, sockets/ union nut and including water meter box making locking arrangements and lock. [Without chamber].	Bd.V.7 Page No. 554	Number	30124.00	1249.00
1321	Water Supply and Sanitary Fitting	41.40	BDV 8	Providing and fixing 15 mm dia. screw down bib/ stop tap of brass including necessary socket union nut complete.	Bd.V.8 Page No. 554	Number	548.00	79.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1322	Water Supply and Sanitary Fitting	41.41	BDV 8	Providing and fixing 20 mm dia. screw down bib/ stop tap of brass including necessary socket union nut complete.	Bd.V.8 Page No. 554	Number	830.00	84.00
1323	Water Supply and Sanitary Fitting	41.42	BDV 8	Providing and fixing 25 mm dia. screw down bib/ stop tap of brass including necessary socket union nut complete.	Bd.V.8 Page No. 554	Number	1161.00	84.00
1324	Water Supply and Sanitary Fitting	41.43	BDV 9	Providing and fixing screw down 15 mm dia. wheeled stop tap of brass including necessary sockets/union nut complete	Bd.V.9 Page No. 555	Number	402.00	84.00
1325	Water Supply and Sanitary Fitting	41.44	BDV 9	Providing and fixing screw down for 20 mm dia. wheeled stop tap of brass including necessary sockets/union nut complete.	Bd.V.9 Page No. 555	Number	516.00	84.00
1326	Water Supply and Sanitary Fitting	41.45	BDV 9	Providing and fixing screw down for 25 mm dia. wheeled stop tap of brass including necessary sockets/union nut complete.	Bd.V.9 Page No. 555	Number	707.00	84.00
1327	Water Supply and Sanitary Fitting	41.46	BDV 9	Providing and fixing screw down for 32 mm dia. wheeled stop tap of brass including necessary sockets/union nut complete.	Bd.V.9 Page No. 555	Number	699.00	94.00
1328	Water Supply and Sanitary Fitting	41.47	BDV 9	Providing and fixing screw down for 40 mm dia. wheeled stop tap of brass including necessary sockets/union nut complete.	Bd.V.9 Page No. 555	Number	873.00	94.00
1329	Water Supply and Sanitary Fitting	41.48	BDV 9	Providing and fixing screw down for 50 mm dia. wheeled stop tap of brass including necessary sockets/ union nut complete.	Bd.V.9 Page No. 555	Number	1564.00	112.00
1330	Water Supply and Sanitary Fitting	41.49	BDV 9	Providing and fixing screw down for 65 mm dia. wheeled stop tap of brass including necessary sockets/union nut complete.	Bd.V.9 Page No. 555	Number	2054.00	112.00
1331	Water Supply and Sanitary Fitting	41.50	BDV 9	Providing and fixing screw down for 80 mm. dia. wheeled stop tap of brass including necessary sockets/union nut complete.	Bd.V.9 Page No. 555	Number	3315.00	112.00
1332	Water Supply and Sanitary Fitting	41.51	BDV 12	Providing and fixing 100 mm dia. chromium plated brass showers rose to 15mm dia. supply pipe including necessary bend and socket complete.	Bd.V. 12 Page No. 556	Number	414.00	84.00
1333	Water Supply and Sanitary Fitting	41.52	BDV 14	Providing and fixing 15mm diameter concussion push button type brass/gun metal self-closing tap including necessary socket complete.	Bd.V.14 Page No. 557	Number	276.00	12.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1334	Water Supply and Sanitary Fitting	41.53	BDV 14	Providing and fixing 25mm diameter concussion push button type brass/gun metal self-closing tap including necessary socket complete	Bd.V. 14 Page No. 557	Number	338.00	125.00
1335	Water Supply and Sanitary Fitting	41.54	BDV	Providing and fixing push cock (Self closing tap) symet type of 15 mm dia. including necessary socket, testing etc. complete.	As directed by Engineer- in-charge.	Number	410.00	125.00
1336	Water Supply and Sanitary Fitting	41.55	BDV	Providing and fixing push cock (Self closing tap) symet type of 20 mm dia. including necessary socket, testing etc. complete.	As directed by Engineer- in-charge.	Number	481.00	125.00
1337	Water Supply and Sanitary Fitting	41.56	BDV 19	Providing and fixing 45 cm wide mild steel ladder of 40mm x 6 mm mild steel flat stringers and steps of 18 mm dia. mild steel bar for water tank including fixing it in (1:2:4) M-15 cement concrete block 60cm x 30cm x 30cm and painting the ladder complete. (Anti Corrossive Paint)	Bd. V. 19 Page No. 559	Running Metre	818.00	467.00
1338	Water Supply and Sanitary Fitting	41.57	BDV 23	Providing and fixing White Glazed Earthenware full stall type Urinal with P.V.C. flushing cistern of 5 liters capacity with fitting, inlet pipes and stop tap, brackets for fixing the cistern, 32 mm dia. P.V.C flush pipe with fittings and flushing arrangement including lead soil pipe, lead trap, soil pipe connection up to the outside face of the wall	Bd.V.23 Page No. 562	Number	7740.00	999.00
1339	Water Supply and Sanitary Fitting	41.58	BDV 23	Providing and fixing White Glazed Earthenware Squatting plate (Ladies Urinal) with P.V.C. flushing cistern of 5 liters capacity with fitting, inlet pipes and stop tap, brackets for fixing the cistern, 32 mm dia. P.V.C flush pipe with fittings and flushing arrangement including lead soil pipe, lead trap, soil pipe connection up to the outside face of the wall	Bd.V.23 Page No. 562	Number	3398.00	923.00
1340	Water Supply and Sanitary Fitting	41.59	BDV 23	Providing and fixing coloured glazed earthenware full stall type Urinal with P.V.C. flushing cistern of 5 liters capacity with fitting, inlet pipes and stop tap brackets for fixing the cistern 32mm dia. P.V.C. flush pipe with fittings and flushing arrangement including lead soil pipe, lead trap soil pipe connection up to the outside face of the wall.	Bd.V.23 Page No. 562	Number	8517.00	1297.00
1341	Water Supply and Sanitary Fitting	41.60	BDV 26	Providing and fixing white glazed earthenware lipped flat back/corner type Urinal with PVC 5 liters flushing cistern with fittings, inlet pipe with stop tap, brackets for fixing the cistern, 32 mm diameter P.V.C. flush pipe with fitting including lead soil pipe, lead trap and soil pipe connection up to the outside face of wall.	Bd.V.26 Page No. 564	Number	3947.00	923.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1342	Water Supply and Sanitary Fitting	41.61	BDV 27	Providing and fixing coloured glazed earthenware lipped flat back/corner type urinal with PVC 5 liters flushing cistern with fittings, capacity with fittings, inlet pipe and stop tap, brackets for fixing the cistern, P.V.C. flush pipe with fittings including lead soil pipe, lead trap and soil pipe connection up to the outside face of the wall.	Bd.V.27 Page No. 564	Number	4056.00	923.00
1343	Water Supply and Sanitary Fitting	41.62	BDV 29	Providing and laying 100 mm dia. half round white glazed earthenware pipes in 1:5:10 cement concrete bedding including bends, etc. complete.	Bd.V.29 Page No. 565	Running Metre	259.00	39.00
1344	Water Supply and Sanitary Fitting	41.63	BDV 30	Providing and fixing white glazed earthenware Wash Hand Basin of 55cm. x 40 cm. size including cold water pillar tap/cold and hot water pillar tap brackets, rubber plugs and brass chain, stop tap and necessary pipe connections including P.V.C. waste pipe and trap up to the outside face of the wall. Making good the damaged surface, testing etc. complete.	Bd.V.30 Page No. 565	Number	4508.00	1547.00
1345	Water Supply and Sanitary Fitting	41.64	BDV 30	Providing and fixing white glazed earthenware Wash Hand Basin of 45cm x 30cm size including cold water pillar tap/cold and hot water pillar tap brackets, rubber plugs and brass chain, stop tap and necessary pipe connection including P.V.C. waste pipe and trap up to the outside face of the wall. Making good the damaged surface, testing etc. complete.	Bd.V.30 Page No. 565	Number	4678.00	1547.00
1346	Water Supply and Sanitary Fitting	41.65	BDV 30	Providing and fixing white glazed earthenware Wash Hand Basin of 63cm x 45cm size including Bib cock stop tap brass heavy 15mm, brackets, rubber plugs and brass chain, stop tap and necessary pipe connection including P.V.C. waste pipe and trap up to the outside face of the wall.	Bd.V.30 Page No. 565	Number	4877.00	1547.00
1347	Water Supply and Sanitary Fitting	41.66	BDV 30	Providing and fixing coloured glazed earthenware Wash Hand Basin of 55cm x 40 cm size including cold water pillar tap/cold and hot water pillar tap brackets, rubber plugs and brass chain, stop tap and necessary pipe connection including P.V.C. waste pipe and trap up to the outside face of the wall. Making good the damaged surface, testing etc. complete.	Bd.V.30 Page No. 565	Number	4895.00	1547.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1348	Water Supply and Sanitary Fitting	41.67	BDV 30	Providing and fixing coloured glazed earthenware Wash Hand Basin of 45 cm x 30 cm size including cold water pillar tap/cold and hot water pillar tap brackets, rubber plugs and brass chain, stop tap and necessary pipe connection including P.V.C. waste pipe and trap up to the outside face of the wall. Making good the damaged surface, testing etc. complete.	Bd.V.30 Page No. 565	Number	4508.00	1547.00
1349	Water Supply and Sanitary Fitting	41.69	BDV	Providing and fixing White glazed with bottle trap earthenware Wash Hand Basin of 55x40 cm size including cold water pillar taps, brackets, rubber plugs and brass chain, stop tap, chromium plate bottle trap and necessary pipe connections including UPAC waste pipe and trap upto the outside face of the wall, making good the damaged surface, testing etc. complete.	BDV.-30 Page No.616	Number	4711.00	1464.00
1350	Water Supply and Sanitary Fitting	41.70	BDV	Providing and fixing White glazed with bottle trap earthenware Wash Hand Basin of 63x45 cm size including cold water pillar taps, brackets, rubber plugs and brass chain, stop tap, chromium plate bottle trap and necessary pipe connections including UPAC waste pipe and trap upto the outside face of the wall, making good the damaged surface, testing etc. complete.	BDV.-30 Page No.616	Number	4984.00	1464.00
1351	Water Supply and Sanitary Fitting	41.72	BDV	Providing and fixing Coloured glazed with bottle trap earthenware Wash Hand Basin of 55x40 cm. size including cold water pillar taps, brackets, rubber plugs and brass chain, stop tap, chromium plate bottle trap and necessary pipe connections including UPAC waste pipe and trap upto the outside face of the wall, making good the damaged surface, testing etc. complete.	BDV.-30 Page No.616	Number	4805.00	1384.00
1352	Water Supply and Sanitary Fitting	41.74	BDV 30	Providing and fixing coloured glazed earthenware Wash Hand Basin of 63 cm x 45 cm size including cold water pillar tap/cold and hot water pillar tap brackets, rubber plugs and brass chain, stop tap and necessary pipe connection including P.V.C. waste pipe and trap up to the outside face of the wall.	Bd.V.30 Page No. 565	Number	5767.00	1249.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1353	Water Supply and Sanitary Fitting	41.75	BDV 31	Providing and fixing white glazed earthenware sink 600mm x 200mm x 450mm including all connection of the G.I. supply and P.V.C. waste pipes up to the outside face of the wall, cold water chromium plated screw down bib tap, rolled steel or C.I. brackets, rubber plug with chain and stop tap complete.	Bd.V.31 Page No.566	Number	4524.00	1464.00
1354	Water Supply and Sanitary Fitting	41.76	BDV 31	Providing and fixing white glazed earthenware sink 450mm x 200mm x 300mm including all connection of the G.I. supply and lead waste pipes up to the outside face of the wall, cold water chromium plated screw down bib tap, rolled steel or C.I. brackets, rubber plug with chain and stop tap complete.	Bd.V.31 Page No.566	Number	3371.00	1464.00
1355	Water Supply and Sanitary Fitting	41.77	BDV	Providing and fixing Autoclosing pillar cock of pressmatic tap of approved make or equivalent including all fixtures, fittings etc. complete.	As directed by Engineer in charge.	Number	2239.00	295.00
1356	Water Supply and Sanitary Fitting	41.78	BDV	Providing and constructing granite kitchen platform with fixing of stainless steel sink 600 mm x 450 mm size as per detailed drawing including vertical both side polished kadappah stone 25 to 30 mm thick supports with kadappah top 35 to 40 mm thick and polished granite 16 to 20 mm top with side strips of granite at front and both sides of platform raised with two vertical granite supports 15 cm height and top granite of 75 x 40 cm including cutting, opening for sink of required size in kadappah as well as granite etc. complete. (Platform top size 5.00 m x 0.60 m and height is 0.75 m)	As directed by Engineer in charge.	Square Metre	8792.00	1115.00
1357	Water Supply and Sanitary Fitting	41.79	BDV 32	Providing and fixing 8cm C.I. Nahani Trap including C.I. grating bend and piece of C.I. pipe upto the outside face of the wall complete.	Bd.V.32 Page No.567	Number	684.00	250.00
1358	Water Supply and Sanitary Fitting	41.80	BDV 32	Providing and fixing 10cm C.I. Nahani Trap including C.I. grating bend and piece of C.I. pipe upto the outside face of the wall complete.	Bd.V.32 Page No.567	Number	963.00	250.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1359	Water Supply and Sanitary Fitting	42.01	BDV 37	Providing and laying 100mm diameter half round salt glazed stoneware pipes in brick masonry including fittings such as bends, tees, single junction, necessary excavation and jointing complete.	Bd.V.37, Page No. 571	Running Metre	414.00	18.00
1360	Water Supply and Sanitary Fitting	42.02	BDV 38	Providing and fixing 15cm x 10cm salt glazed stoneware gully trap in cement concrete 1:4:8 outside the building including cast iron grating in the sink, connecting glazed stoneware pipe, brick masonry chamber with cast iron lid and cast iron grating for the gully trap.	Bd.V.38, Page No. 572	Number	1169.00	43.00
1361	Water Supply and Sanitary Fitting	42.03	BDV 39	Providing and laying 100 mm dia salt glazed stoneware pipe including fittings such as bends, tees, single junction, double junctions laying, jointing (including excavation and refilling the trenches) complete.	Bd.V.39, Page No. 573	Running Metre	280.00	21.00
1362	Water Supply and Sanitary Fitting	42.04	BDV 39	Providing and laying for 150 mm dia salt glazed stoneware pipe including fittings Such as bends, tees, single junction, double junctions laying, jointing (including excavation and refilling the trenches) complete.	Bd.V.39, Page No. 573	Running Metre	346.00	21.00
1363	Water Supply and Sanitary Fitting	42.05	BDV 39	Providing and laying for 225mm dia. salt glazed S.W. Pipe including fitting such as bends, tees, single junction, double junctions laying, jointing (including excavation and refilling the trenches) complete	Bd.V.39, Page No. 573	Running Metre	377.00	21.00
1364	Water Supply and Sanitary Fitting	42.06	BDV 41	Providing and laying concrete pipes of I.S.NP. class of 100mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	Bd.V.41, Page No. 573	Running Metre	644.00	36.00
1365	Water Supply and Sanitary Fitting	42.07	BDV 41	Providing and laying concrete pipes of I.S.NP. class of 150mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	Bd.V.41, Page No. 573	Running Metre	678.00	39.00
1366	Water Supply and Sanitary Fitting	42.08	BDV 41	Providing and laying concrete pipes of I.S.NP. class of 225mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	Bd.V.41, Page No. 573	Running Metre	741.00	39.00
1367	Water Supply and Sanitary Fitting	42.09	BDV 41	Providing and laying concrete pipes of I.S.NP. class of 300mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	Bd.V.41, Page No. 573	Running Metre	1046.00	40.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1368	Water Supply and Sanitary Fitting	42.10	BDV 43	Providing and constructing Brick Masonry Inspection Chamber 60cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round G.S.W. pipes, Brick Masonry, plastering from inside and airtight C. I. cover of 75 kg with lid and frame fixed in cement concrete.	Bd.V.43, Page No. 574	Number	11254.00	238.00
1369	Water Supply and Sanitary Fitting	42.11	BDV 43	Providing and constructing Brick Masonry Inspection Chamber 90cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round G.S.W.pipes, Brick Masonry, plastering from inside and C.I. lid cover of 75 kg with lid and frame fixed in cement concrete.	Bd.V.43 Page No. 574	Number	12068.00	271.00
1370	Water Supply and Sanitary Fitting	42.12	BDV 43	Providing and constructing Brick Masonry Inspection Chamber 60cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round G.S.W. pipes, Brick Masonry, plastering from inside and with frame fixed in cement concrete with R.C.C. Cover medium duty 140 kg with frame etc complete.	Bd.V.43, Page No. 574	Number	6975.00	239.00
1371	Water Supply and Sanitary Fitting	42.13	BDV 43	Providing and constructing Brick Masonry Inspection Chamber 90cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round G.S.W.pipes, Brick Masonry, plastering from inside and with frame fixed in cement concrete with R.C.C. Cover medium duty 140 kg with frame etc complete.	Bd.V.43, Page No. 574	Number	8277.00	273.00
1372	Water Supply and Sanitary Fitting	42.14	BDV 44	Providing and constructing Brick Masonry inspection Chamber 90cm x 45cm including 1:4:8 C.C foundation, 1:2:4 C.C.channels/half round glazed stoneware pipe channel, salt glazed stone-ware intercepting trap with rodding pipe set in 1:4:8 cement concrete block, brick masonry plastering inside and Outside, with C.I. lead cover of 75 kg with frame fixed in cement concrete.	Bd.V.44, Page No. 575	Number	12583.00	271.00
1373	Water Supply and Sanitary Fitting	42.15	BDV 44	Providing and constructing Brick Masonry inspection trap Chamber 90cm x 45cm including 1:4:8 C.C foundation, 1:2:4 C.C.channels/half round glazed stoneware pipe channel, salt glazed stone-ware intercepting trap with rodding pipe set in 1:4:8 cement concrete block, brick masonry plastering inside and Outside, fixed in cement concrete with R.C.C. Cover medium duty 140 kg. etc complete	Bd.V.44, Page No. 575	Number	8707.00	271.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1374	Water Supply and Sanitary Fitting	42.16	BDV	Providing and constructing Brick Masonry Inspection Chamber 60cm x 45cm With R.C.C. raft in B.C. soil area including cost of reinforcement, 1:2:4 cement concrete channels half round G.S.W. pipes, Brick Masonry, plastering from inside and airtight 75 mm thick R.C.C. cover medium duty 100 kg etc. complete. ☐	Bd.V.43 Page No. 574	Number	7556.00	2296.00
1375	Water Supply and Sanitary Fitting	42.17	BDV	Providing and constructing Brick Masonry Inspection Chamber 90cm x 45cm With R.C.C. raft in B.C. soil area including cost of reinforcement, 1:2:4 cement concrete channels half round G.S.W. pipes, Brick Masonry, plastering from inside and airtight with 75 mm thick R.C.C. cover medium duty 140 kg etc. complete.	Bd.V.43 Page No. 574	Number	9187.00	2740.00
1376	Water Supply and Sanitary Fitting	42.18	BDV 45	Providing and fixing hume pipe septic tank 900mm diameter with vent pipe and cap including necessary (including excavation and laying)	Bd.V.45, Page No. 575	Number	14018.00	560.00
1377	Water Supply and Sanitary Fitting	42.19	BDV 46	Providing soak pit of size 120cm x 120cm x 120cm including excavating and filling with brick-bats.	Bd.V.46, Page No. 576	Number	2363.00	159.00
1378	Water Supply and Sanitary Fitting	42.20	BDV	Providing and fixing 450mm x 550mm size superior type Belgium mirror with 16mm dia. nickel plated towel rod etc. complete.	As directed by Engineer in charge.	Number	703.00	26.00
1379	Water Supply and Sanitary Fitting	42.21	BDV 60	Providing, laying and fixing P.V.C. pipe of 15mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	As directed by Engineer in charge.	Running Metre	69.00	4.00
1380	Water Supply and Sanitary Fitting	42.22	BDV 60	Providing, laying and fixing P.V.C. pipe of 20mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	As directed by Engineer in charge.	Running Metre	96.00	4.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1381	Water Supply and Sanitary Fitting	42.23	BDV 60	Providing, laying and fixing P.V.C. pipe of 25mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	As directed by Engineer in charge.	Running Metre	128.00	4.00
1382	Water Supply and Sanitary Fitting	42.24	BDV 60	Providing, laying and fixing P.V.C. pipe of 32mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	As directed by Engineer in charge.	Running Metre	174.00	4.00
1383	Water Supply and Sanitary Fitting	42.25	BDV 60	Providing, laying and fixing P.V.C. pipe of 40mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	As directed by Engineer in charge.	Running Metre	260.00	5.00
1384	Water Supply and Sanitary Fitting	42.26	BDV 60	Providing, laying and fixing P.V.C. pipe of 50mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	As directed by Engineer in charge.	Running Metre	340.00	7.00
1385	Water Supply and Sanitary Fitting	42.27	BDV 60	Providing, laying and fixing P.V.C. pipe of 75mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	As directed by Engineer in charge.	Running Metre	344.00	7.00
1386	Water Supply and Sanitary Fitting	42.28	BDV 60	Providing, laying and fixing P.V.C. pipe of 110 mm. dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	As directed by Engineer in charge.	Running Metre	478.00	7.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1387	Water Supply and Sanitary Fitting	42.29	BDV	Providing and fixing partition with kadappa stone of all sizes and 25 mm thick polished on both side and edges to original including fixing in position in cement mortar 1:4 curing polish-ing, cleaning etc complete.	As directed by Engineer in charge.	Square Metre	922.00	30.00
1388	Water Supply and Sanitary Fitting	42.30	BDV	Providing and fixing Orissa type white glazed earthenware 575 mm water closet pan including S trap with earthenware foot rests, cast iron soil and vent pipe upto outside face of the wall 1:2:4 brick bat lime concrete bedding without flushing tank and its accessories etc. complete.	As directed by Engineer in charge.	Number	3260.00	341.00
1389	Water Supply and Sanitary Fitting	42.31	BDV	Providing and fixing chromium plated towel rod 16 mm dia and 75 cm. in length including all accessories complete.	As directed by Engineer in charge.	Number	242.00	5.00
1390	Water Supply and Sanitary Fitting	42.32	BDV	Providing and Fixing half turn 25 mm dia gun metal flushing cock including all accessories etc. complete.	As directed by Engineer in charge.	Number	747.00	11.00
1391	Water Supply and Sanitary Fitting	42.33	BDV	Providing and fixing 1st class white glazed earthenware Orissa Type W.C. Pan 580 mm dia including P or S trap cast iron soil and vent pipe upto the outside face of the wall (1:5:1 0) cement concrete bedding 15 mm thick, 10 liter P.V.C. flushing cistern with all necessary pipe connection etc. complete.	As directed by Engineer in charge.	Number	6011.00	254.00
1392	Water Supply and Sanitary Fitting	42.34	BDV	Providing and fixing European type white glazed earthenware coupled closet symphonic trap with symphonic low level white glazed 10 litres cistern with black backlite seat with all necessary pipe connection etc. complete.	As directed by Engineer in charge.	Number	9287.00	306.00
1393	Water Supply and Sanitary Fitting	42.35	BDV	Providing and fixing orissa type colour glazed earthenware 625 x 450 mm. w.c. pan including trap, C.I. soil and vent pipe upto the out side face of wall including 100 mm. dia. C.I. plug, bend, 15mm. thick 10 litre PVC flushing cistern with all necessary pipe connection etc. complete.	As directed by Engineer in charge.	Number	8210.00	293.00
1394	Water Supply and Sanitary Fitting	42.36	BDV	Providing and fixing 40 mm. dia Ball cock medium type with PVC float including sockets and necessary fittings and tested as per municipal requirements etc. complete.	As directed by Engineer in charge.	Number	954.00	12.00
1395	Water Supply and Sanitary Fitting	42.37	BDV	Providing and fixing 15 mm. dia Ball cock medium type with PVC float including sockets and necessary fittings and tested as per municipal requirement etc. complete.	As directed by Engineer in charge.	Number	410.00	11.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1396	Water Supply and Sanitary Fitting	42.38	BDV	Cleaning elevated water storage Reservoir within a given period, by using bleaching powder at the rate of 14 gm/sq.m .washing thrice potassium permanganate at the rate of 2.50 gm/sq.m. finally, cleaning washing by using nylon brush, coir string and duster, bailing out water etc. complete. i) Tank capacity up to 2,000 litre.	As directed by Engineer in charge.	Number	377.00	44.00
1397	Water Supply and Sanitary Fitting	42.39	BDV	Cleaning elevated water storage Reservoir within a given period, by using bleaching powder at the rate of 14 gm/sq.m .washing thrice potassium permanganate at the rate of 2.50 gm/sq.m. finally, cleaning washing by using nylon brush, coir string and duster, bailing out water etc. complete. ii) Tank capacity up to 2,001 to 5000 litre.	As directed by Engineer in charge.	Number	477.00	49.00
1398	Water Supply and Sanitary Fitting	42.40	BDV	Cleaning elevated water storage Reservoir within a given period, by using bleaching powder at the rate of 14 gm/sq.m .washing thrice potassium permanganate at the rate of 2.50 gm/sq.m. finally, cleaning washing by using nylon brush, coir string and duster, bailing out water etc. complete. iii) Tank capacity up to 5,001 to 7000 litre.	As directed by Engineer in charge.	Number	503.00	49.00
1399	Water Supply and Sanitary Fitting	42.41	BDV	Cleaning elevated water storage Reservoir within a given period, by using bleaching powder at the rate of 14 gm/sq.m .washing thrice potassium permanganate at the rate of 2.50 gm/sq.m. finally, cleaning washing by using nylon brush, coir string and duster, bailing out water etc. complete. iv) Tank capacity up to 7,001 to 10000 litre.	As directed by Engineer in charge.	Number	629.00	55.00
1400	Water Supply and Sanitary Fitting	42.42	BDV	Cleaning elevated water storage Reservoir within a given period, by using bleaching powder at the rate of 14 gm/sq.m .washing thrice potassium permanganate at the rate of 2.50 gm/sq.m. finally, cleaning washing by using nylon brush, coir string and duster, bailing out water etc. complete. v) Tank capacity upto 10,001 to 15,000 litre.	As directed by Engineer in charge.	Number	758.00	71.00
1401	Water Supply and Sanitary Fitting	42.43	BDV	Cleaning elevated water storage Reservoir within a given period, by using bleaching powder at the rate of 14 gm/sq.m .washing thrice potassium permanganate at the rate of 2.50 gm/sq.m. finally, cleaning washing by using nylon brush, coir string and duster, bailing out water etc. complete. vi) Tank capacity upto 15,001 to 20,000 litre.	As directed by Engineer in charge.	Number	1209.00	131.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1402	Water Supply and Sanitary Fitting	42.44	BDV	Cleaning elevated water storage Reservoir within a given period, by using bleaching powder at the rate of 14 gm/sq.m .washing thrice potassium permanganate at the rate of 2.50 gm/sq.m. finally, cleaning washing by using nylon brush, coir string and duster, bailing out water etc. complete. vii) Tank capacity upto 20,001 to 30,000 litre.	As directed by Engineer in charge.	Number	1898.00	216.00
1403	Water Supply and Sanitary Fitting	42.45	BDV	Cleaning elevated water storage Reservoir within a given period, by using bleaching powder at the rate of 14 gm/sq.m .washing thrice potassium permanganate at the rate of 2.50 gm/sq.m. finally, cleaning washing by using nylon brush, coir string and duster, bailing out water etc. complete. viii) Tank capacity upto 30,001 to 40,000 litre	As directed by Engineer in charge.	Number	2084.00	243.00
1404	Water Supply and Sanitary Fitting	42.46	BDV	Cleaning elevated water storage Reservoir within a given period, by using bleaching powder at the rate of 14 gm/sq.m .washing thrice potassium permanganate at the rate of 2.50 gm/sq.m. finally, cleaning washing by using nylon brush, coir string and duster, bailing out water etc. complete. ix) Tank capacity up to 40,001 to 50000 litre.	As directed by Engineer in charge.	Number	2832.00	333.00
1405	Water Supply and Sanitary Fitting	42.47	BDV	Cleaning elevated water storage Reservoir within a given period, by using bleaching powder at the rate of 14 gm/sq.m .washing thrice potassium permanganate at the rate of 2.50 gm/sq.m. finally, cleaning washing by using nylon brush, coir string and duster, bailing out water etc. complete. x) capacity 50,001 litre to one lakh.	As directed by Engineer in charge.	1000 Litre	46.00	6.00
1406	Water Supply and Sanitary Fitting	42.48	BDV	Cleaning elevated water storage Reservoir within a given period, by using bleaching powder at the rate of 14 gm/sq.m .washing thrice potassium permanganate at the rate of 2.50 gm/sq.m. finally, cleaning washing by using nylon brush, coir string and duster, bailing out water etc. complete. xi) Capacity above one lakh upto 4.00 lakh	As directed by Engineer in charge.	1000 Litre	24.00	3.00
1407	Water Supply and Sanitary Fitting	42.49	BDV	Cleaning elevated water storage Reservoir within a given period, by using bleaching powder at the rate of 14 gm/sq.m .washing thrice potassium permanganate at the rate of 2.50 gm/sq.m. finally, cleaning washing by using nylon brush, coir string and duster, bailing out water etc. complete. xii) Capacity above 4.00 lakh upto 7.00 lakh .	As directed by Engineer in charge.	1000 Litre	19.00	3.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1408	Water Supply and Sanitary Fitting	42.50	BDV	Cleaning elevated water storage Reservoir within a given period, by using bleaching powder at the rate of 14 gm/sq.m .washing thrice potassium permanganate at the rate of 2.50 gm/sq.m. finally, cleaning washing by using nylon brush, coir string and duster, bailing out water etc. complete. xiii) Capacity above 7.00 lakh upto 12.00 lakh.	As directed by Engineer in charge.	1000 Litre	16.00	2.00
1409	Water Supply and Sanitary Fitting	42.51	BDV	Providing and fixing 75 mm dia stabiliser pipe/ P.V.C. soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps etc. complete	As directed by Engineer in charge.	Running Metre	480.00	22.00
1410	Water Supply and Sanitary Fitting	42.52	BDV	Providing and fixing 100 mm dia stabiliser pipe/ P.V.C. soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps etc. complete.	As directed by Engineer in charge.	Running Metre	652.00	22.00
1411	Water Supply and Sanitary Fitting	42.53	BDV	Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of high density polythylar and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet,outlet overflow pipe inclusive of all tanks capacity between 200 to 1000 liters	As directed by engineer-in-charge.	Litre	13.00	1.00
1412	Water Supply and Sanitary Fitting	42.54	BDV	Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of low density polythylar and built corrugation including of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow of all tanks capacity above 1000 to 20,000 litres	As directed by engineer-in-charge.	Litre	11.00	1.00
1413	Water Supply and Sanitary Fitting	42.55	BDV	Providing and fixing on walls/ ceiling/ floor 15 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	BD.V 5 page 551 and as directed by Engineer in charge	Running Metre	213.00	25.00
1414	Water Supply and Sanitary Fitting	42.56	BDV 5	Providing and fixing on walls/ceiling/floor 20 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	BD.V 5 page 551 and as directed by Engineer in charge	Running Metre	243.00	26.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1415	Water Supply and Sanitary Fitting	42.57	BDV 5	Providing and fixing on walls/ ceiling/ floor 25 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	BD.V 5 page 551 and as directed by Engineer in charge	Running Metre	288.00	26.00
1416	Water Supply and Sanitary Fitting	42.58	BDV 5	Providing and fixing on walls/ ceiling/ floor 32 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	BD.V 5 page 551 and as directed by Engineer in charge	Running Metre	345.00	26.00
1417	Water Supply and Sanitary Fitting	42.59	BDV 5	Providing and fixing on walls /ceiling/ floor 40 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	BD.V 5 page 551 and as directed by Engineer in charge	Running Metre	422.00	26.00
1418	Water Supply and Sanitary Fitting	42.60	BDV 5	Providing and fixing on walls/ ceiling/ floor 50 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete.	BD.V 5 page 551 and as directed by Engineer in charge	Running Metre	607.00	26.00
1419	Water Supply and Sanitary Fitting	42.61	BDV 5	Providing and laying in trenches 15 mm dai. CPVC pipe including necessary excavation, fittings. Refilling trenches etc. complete Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	BD.V 5 page 551 and as directed by Engineer in charge	Running Metre	219.00	26.00
1420	Water Supply and Sanitary Fitting	42.62	BDV 5	Providing and laying in trenches 20 mm dai. CPVC pipe including necessary excavation, fittings. Refilling trenches etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	BD.V 5 page 551 and as directed by Engineer in charge	Running Metre	244.00	27.00
1421	Water Supply and Sanitary Fitting	42.63	BDV 5	Providing and laying in trenches 25 mm dai. CPVC pipe including necessary excavation, fittings. Refilling trenches etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	BD.V 5 page 551 and as directed by Engineer in charge	Running Metre	326.00	32.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1422	Water Supply and Sanitary Fitting	42.64	BDV 5	Providing and laying in trenches 32 mm dai. CPVC pipe including necessary excavation, fittings. Refilling trenches etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	BD.V 5 page 551 and as directed by Engineer in charge	Running Metre	383.00	32.00
1423	Water Supply and Sanitary Fitting	42.65	BDV 5	Providing and laying in trenches 40mm dai. CPVC pipe including necessary excavation, fittings. Refilling trenches etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	BD.V 5 page 551 and as directed by Engineer in charge	Running Metre	461.00	32.00
1424	Water Supply and Sanitary Fitting	42.66	BDV 5	Providing and laying in trenches 50mm dai. CPVC pipe including necessary excavation, fittings. Refilling trenches etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	BD.V 5 page 551 and as directed by Engineer in charge	Running Metre	641.00	32.00
1425	Water Supply and Sanitary Fitting	42.67	BDV 32	Providing and fixing 10 cm PVC nahani trap with grating etc. complete.	BD.V 32 A page 551 and as directed by Engineer in charge	Number	422.00	43.00
1426	Water Supply and Sanitary Fitting	42.68	BDV	Providing and fixing reinforced cement concrete cover of size 90 cm x 45 cm with frame over inspection chamber etc. complete. Heavy duty (225 kg)	As directed by Engineer in charge.	Number	4586.00	51.00
1427	Water Supply and Sanitary Fitting	42.69	BDV	Providing and fixing reinforced cement concrete cover of size 90 cm x 45 cm with frame over inspection chamber etc. complete. Medium duty (140 kg)	As directed by Engineer in charge.	Number	3330.00	86.00
1428	Water Supply and Sanitary Fitting	42.70	BDV	Providing and fixing reinforced cement concrete cover of size 60 cm x 45 cm with frame over inspection chamber etc. complete. Heavy duty (160 kg)	As directed by Engineer in charge.	Number	4263.00	81.00
1429	Water Supply and Sanitary Fitting	42.71	BDV	Providing and fixing reinforced cement concrete cover of size 60 cm x 45 cm with frame over inspection chamber etc. complete. Medium duty (100 kg)	As directed by Engineer in charge.	Number	2857.00	81.00
1430	Water Supply and Sanitary Fitting	42.72	BDV 4	Providing and making ISI Mark ferrule connection of 15 mm dia. to water main including ferrule coupling cast iron bell mouth cover, built in non return valve and fixing including excavation and reinstatement complete.	Bd.V. 4 page 551	Number	1003.00	70.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1431	Water Supply and Sanitary Fitting	42.73	BDV 4	Providing and making ISI Mark ferrule connection of 20 mm dia. to water main including ferrule coupling cast iron bell mouth cover, built in non return valve and fixing including excavation and reinstatement complete.	Bd.V. 4 page 551	Number	1362.00	70.00
1432	Water Supply and Sanitary Fitting	42.74	BDV 4	Providing and making ISI Mark ferrule connection of 25mm dia.to water main including ferrule coupling cast iron bell mouth cover, built in non return valve and fixing including excavation and reinstatement complete.	Bd.V. 4 page 551	Number	2037.00	70.00
1433	Water Supply and Sanitary Fitting	42.75	BDV 4	Providing and making ISI Mark ferrule connection of 32 mm dia. to water main including ferrule coupling cast iron bell mouth cover, built in non return valve and fixing including excavation and reinstatement complete.	Bd.V. 4 page 551	Number	3126.00	70.00
1434	Water Supply and Sanitary Fitting	42.76	BDV 4	Providing and making ISI Mark ferrule connection of 40mm dia. to water main including ferrule coupling cast iron bell mouth cover, built in non return valve and fixing including excavation and reinstatement complete.	Bd.V. 4 page 551	Number	4306.00	70.00
1435	Water Supply and Sanitary Fitting	42.77	BDV 4	Providing and making ISI Mark ferrule connection of 50 mm dia. to water main including ferrule coupling cast iron bell mouth cover, built in non return valve and fixing including excavation and reinstatement complete.	Bd.V. 4 page 551	Number	6998.00	70.00
1436	Water Supply and Sanitary Fitting	42.78	BDV 4	Providing and fixing stainless steel sink of size 600 x 510 x 200 mm including coupling, outlet pipe, elbow and other necessary fitting, finishing etc. complete.	As directed by Engineer in charge	Number	14490.00	400.00
1437	Water Supply and Sanitary Fitting	42.79	BDV	Providing and fixing C.P. Angular stop clock with wall flange of approved make continental including necessary sockets/union nut etc. complete.	As directed by Engineer in charge	Number	2390.00	33.00
1438	Water Supply and Sanitary Fitting	42.80	BDV	Providing and fixing C.P.Two way BIB cock of approved make continental including necessary sockets/union nut etc. complete.	As directed by Engineer in charge	Number	1180.00	33.00
1439	Water Supply and Sanitary Fitting	42.81	BDV	Providing and fixing C.P. wall mixer with provision for overhead shower with 115mm long bend pipe and wall flange of approved make including necessary sockets/union nut etc. complete.	As directed by Engineer in charge	Number	3645.00	66.00
1440	Water Supply and Sanitary Fitting	42.82	BDV	Providing and fixing C.P. pillar cock long neck with aerator of approved make including necessary sockets/union nut etc. complete.	As directed by Engineer in charge	Number	1180.00	33.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1441	Water Supply and Sanitary Fitting	42.83	BDV	Providing and fixing C.P. BIB cock with wall flange of approved make including necessary sockets/ union nut etc. complete.	As directed by Engineer in charge	Number	940.00	39.00
1442	Water Supply and Sanitary Fitting	42.84	BDV	Providing and fixing C.P. sink cock with raised J" shaped swinging casted spout of approved make including necessary sockets/ union nut etc. complete."	As directed by Engineer in charge	Number	1503.00	33.00
1443	Water Supply and Sanitary Fitting	42.85	BDV	Providing and fixing P.V.C. Rain water pipes of 160mm outer diameter and having wall thickness of 2.2 to 2.7 mm confirming to I.S. 13592-1992 including proper rainwater receiving recess with P.V.C. plug, bend, necessary fittings, such as, offsets, shoes, including fixing the pipe on wall using approved wooden cleats projecting 25mm to 40mm from face of wall a fixing with clips of approved quality and number ,filing the joint using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks, including necessary scaffolding and maintenance for 3 yrs for any leakages or dislocations of pipes. All the P.V.C. fittings and additional 2 piece socket clips shall be got approved from engineer in charge etc. complete.	As directed by Engineer Incharge	Running Metre	1186.00	33.00
1444	Water Supply and Sanitary Fitting	42.86	BDV	Providing and fixing European type wall-hung white water closet of approved make with push valve concealed type with cover plate 32mm size of approved make including soil pipe, vent pipe up to outside face of wall ,100mm dia. G.I. plug bend inlet pipe all fittings, cuttingand making good walls, floors etc. complete.	As directed by Engineer Incharge	Number	10791.00	292.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1445	Water Supply and Sanitary Fitting	42.87	BDV	Providing and fixing P.V.C. Rain water pipes of 110mm outer diameter and having wall thickness of 2.2 to 2.7 mm confirming to I.S. 13592-1992 including proper rainwater receiving recess with P.V.C. plug, bend, necessary fittings, such as, offsets, shoes, including fixing the pipe on wall using approved wooden cleats projecting 25mm to 40mm from face of wall a fixing with clips of approved quality and number ,filing the joint using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks, including necessary scaffolding and maintenance for 3 yrs for any leakages or dislocations of pipes. All the P.V.C. fittings and additional 2 piece socket clips shall be got approved from engineer in charge etc. complete.	As directed by Engineer Incharge	Running Metre	440.00	22.00
1446	Water Supply and Sanitary Fitting	42.88	BDV	providing and fixing oval type under counter wash hand basin of 16 inch x 22 inch size and of special colour shade having telephonic black / coloured granite of 180 mm thick stone black kadappa framework including chromium plated coupling bottle - Trap using CERA company or equivalent oval typa wash basin model no 3448 as per detailed drawing or as directed by engg incharge etc complete. (Counter size 1.20 m x 0.60 m )	As directed by Engineer in charge	Number	8767.00	22.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1447	Water Supply and Sanitary Fitting	43.01	BDV 5	Providing and laying in walls/ceilings/floors 15 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 1.25 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint, 2 coats complete. Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	296.00	18.00
1448	Water Supply and Sanitary Fitting	43.02	BDV 5	Providing and laying in walls/ceilings/floors 20 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 1.63 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint, 2 coats complete. Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	333.00	24.00
1449	Water Supply and Sanitary Fitting	43.03	BDV 5	Providing and laying in walls/ceilings/floors 25 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 2.49 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint , 2 coats complete. Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	384.00	18.00
1450	Water Supply and Sanitary Fitting	43.04	BDV 5	Providing and laying in walls/ceilings/floors 32 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 3.20 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint , 2 coats complete. Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	459.00	19.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1451	Water Supply and Sanitary Fitting	43.05	BDV 5	Providing and laying in walls/ ceilings/floors 40 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 3.68 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint , 2 coats complete. Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	509.00	19.00
1452	Water Supply and Sanitary Fitting	43.06	BDV 5	Providing and laying in walls/ceilings/floors 50 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 5.17 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint , 2 coats complete. Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	648.00	19.00
1453	Water Supply and Sanitary Fitting	43.07	BDV 5	Providing and laying in walls/ceilings/floors 80 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 8.57 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint , 2 coats complete. Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	1012.00	20.00
1454	Water Supply and Sanitary Fitting	43.08	BDV 5	Providing and laying in walls/ceilings/floors 100 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 12.43 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint , 2 coats complete. Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	1094.00	20.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1455	Water Supply and Sanitary Fitting	43.09	BDV 5	Providing and laying in trenches 15 mm dia.heavy grade having embossed as ISI Mark galvanised iron pipes of 1.48 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint , 2 coats complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	380.00	26.00
1456	Water Supply and Sanitary Fitting	43.10	BDV 5	Providing and laying in trenches 20 mm dia. heavy grade having embossed as ISI Mark galvanised iron pipes of 1.93 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint , 2 coats complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	450.00	32.00
1457	Water Supply and Sanitary Fitting	43.11	BDV 5	Providing and laying in trenches 25 mm dia. heavy grade having embossed as ISI Mark galvanised iron pipes of 3.01 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint , 2 coats complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	513.00	32.00
1458	Water Supply and Sanitary Fitting	43.12	BDV 5	Providing and laying in trenches 32 mm dia. heavy grade having embossed as ISI Mark galvanised iron pipes of 3.89 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint , 2 coats complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	539.00	32.00
1459	Water Supply and Sanitary Fitting	43.13	BDV 5	Providing and laying in trenches 40 mm dia. heavy grade having embossed as ISI Mark galvanised iron pipes of 4.49 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint , 2 coats complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	609.00	33.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1460	Water Supply and Sanitary Fitting	43.14	BDV 5	Providing and laying in trenches 50 mm dia. heavy grade having embossed as ISI Mark galvanised iron pipes of 6.33 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint , 2 coats complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	763.00	35.00
1461	Water Supply and Sanitary Fitting	43.15	BDV 5	Providing and laying in trenches 80 mm dia. heavy grade having embossed as ISI Mark galvanised iron pipes of 10.15 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint , 2 coats complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	1158.00	35.00
1462	Water Supply and Sanitary Fitting	43.16	BDV 5	Providing and laying in trenches 100 mm dia. heavy grade having embossed as ISI Mark galvanised iron pipes of 14.74 kg/metre necessary fitting remaking good the demolished portion with filling trenches and with primer of anti-corrosive oil paint , 2 coats complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Bd.V.5 Page No. 551	Running Metre	1503.00	39.00
1463	Water Supply and Sanitary Fitting	43.17	BDV 23	Providing and fixing 8 cm rigid PVC Nahani trap including PVC grating ,bend, connecting piece of UPVC pipe up to the outside face of wall ,making the good damaged surface and testing etc. complete ( Prior approval of sample and brand by Ex. Engr. is necessary before use)	Specfications	Number	430.00	43.00
1464	Water Supply and Sanitary Fitting	43.18	BDV 24	Providing and fixing 15 cm rigid PVC Nahani trap including PVC grating ,bend,connectingpiece of UPVC pipe up to the outside face of wall ,making the good damaged surface and testing etc. complete ( Prior approval of sample and brand by Ex. Engr. is necessary before use)	Specfications	Number	457.00	43.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1465	Water Supply and Sanitary Fitting	43.19	BDV 21	Providing and fixing European type white glazed earthenware water closet pan with UPVC seat and lid with chromium plated brass hinges and rubber buffers including UPVC and vent pipe up to the outside face of wall 10 litre enameled low level flushing cistern with fittings pipe stop tap brackets for fixing cistern 32 mm dia. UPVC flush pipe with fittings and clamps ,20 mm dia.UPVC overflow pipe ,mosquito proof couplings G.I. chain and pulley,with water Jet and fitting including cutting and making good to the walls and floors testing etc. complete.(prior approval of sample and brand by Ex. Engineer is necessary before use)	Specfications	Number	9588.00	292.00
1466	Water Supply and Sanitary Fitting	43.20	BDV 21	Providing and fixing European type white glazed earthenware water closet pan with UPVC seat and lid with chromium plated brass hinges and rubber buffers including UPVC and vent pipe up to the outside face of wall without flushing cistern with flush cock and with water Jet and necessary fittings including cutting and making good to the walls and floors testing etc. complete.( prior approval of sample and brand by Ex. Engineer is necessary before use)	Specfications	Number	8838.00	292.00
1467	Water Supply and Sanitary Fitting	43.21	BDV 22	Providing and fixing European type Colour glazed earthenware water closet pan with UPVC seat and lid with chromium plated brass hinges and rubber buffers including UPVC and vent pipe up to the outside face of wall 10 liter enameled low level flushing cistern with fittings pipe stop tap brackets for fixing cistern 32 mm dia. UPVC flush pipe with fittings and clamps ,20 mm dia.UPVC overflow pipe ,mosquito proof couplings G.I. chain and pulley,with water Jet and fitting including cutting and making good to the walls and floors testing etc. complete.( prior approval of sample and brand by Ex. Engineer is necessary before use)	Specfications	Number	9588.00	292.00
1468	Water Supply and Sanitary Fitting	43.22	BDV 23	Providing and fixing European type Colour glazed earthenware water closet pan with UPVC seat and lid with chromium plated brass hinges and rubber buffers including UPVC and vent pipe up to the outside face of wall without flushing cistern with flush cock and with water Jet and necessary fittings including cutting and making good to the walls and floors testing etc. complete.( prior approval of sample and brand by Ex. Engineer is necessary before use)	Specfications	Number	8838.00	292.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1469	Water Supply and Sanitary Fitting	43.23	BDV 20	Providing and fixing Anglo Indian type white glazed earthenware water closet pan with trap with UPVC seat and lid with chromium plated brass hinges and rubber buffers including UPVC and vent pipe up to the outside face of wall with flushing cistern and necessary fittings including cutting and making good to the walls and floors testing etc. complete.( prior approval of sample and brand by Ex. Engineer is necessary before use)	Specifications	Number	5530.00	345.00
1470	Water Supply and Sanitary Fitting	43.24	BDV 22	Providing and fixing high level 10 liter capacity with fittings inlet PVC pipe with stop tap ,brackets for fixing the cistern,32 mm dia. PVC flush pipe with fitting and clamps 20 mm dia. PVC overflow pipe with mosquito proof couplings, galvanised iron chain and pulley painting if ordered to cistern pipe etc. and cutting and making good the damaged wall and testing etc. complete ( Prior approval of sample and brand by Ex. Engr. is necessary before use)	Specifications	Number	1111.00	51.00
1471	Water Supply and Sanitary Fitting	43.25	BDV 23	Providing and fixing in position UPVC ultra violet stabilized 110 mm outer diameter cowl dome conforming to I.S.-4985 including making joints with solvent cement etc. complete	Specifications	Number	116.00	11.00
1472	Water Supply and Sanitary Fitting	43.26	BDV 23	Providing and fixing Glass self 125 mm wide and 600 mm long with necessary chromium plated brackets providingT.W.gutties etc. complete	Specifications	Number	307	117
1473	Water Supply and Sanitary Fitting	43.27	BDV 23	Providing , constructing and fixing 250 mm dia. Inspection chamber made up of UPVC material of thickness 3.5 mm and height of 259 mm with inlet and outlet of 110 mm dia. with 75 mm dia. U Trap, Ultra shaft pipe of Upvc material having height of 470 mm and fixing Ultra 250 mm dia. UPVC cover and frame in 150 mm thick in c.c.1:2:4, having crushed sand bed of 100 mm thick of size 550 mm dia. Including excavation and refilling the sides of chamber by crushed sand cushioning 150 mm thickness, connecting all required UPVC fittings with rubber lubricant etc. complete.	Specifications	Number	3460.00	86.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1474	Water Supply and Sanitary Fitting	43.28	Bd-V	Providing , constructing and fixing 450 mm dia. Inspection chamber made up of Polypropylene / polyethylene material of thickness 3.5 mm and height of 388 mm with 160 or 200 mm main inlet (s) outlet and 110 and / or 160 mm branch inlets, with 450 mm dia. Ultra shaft pipe of HDPE material having height of 460 mm, having R.C.C. cover and frame fixing in 150 mm thick in c.c.1:2:4, having crushed sand bed of 150 mm thick of size 750 mm dia. Including excavation and refilling the sides of chamber by sand crushed cushioning 150 mm thickness, connecting all required UPVC fittings with rubber lubricant etc. complete.	As Directected By Engineer Incharge	Number	9793.00	107.00
1475	Water Supply and Sanitary Fitting	43.29	Bd-V	Providing , constructing and fixing 600 mm dia. Inspection chamber made up of Polypropylene / polyethylene material Having 315 mm diameter inlet(s)/outlets and with eccentric reducers as per requirement to connect 160 mm and 200 mm pipes having thickness of 5 mm and 600 mm in height, with inbuilt shaft achieve the invert depth as per site condition of wall thickness of 5 mm having R.C.C. cover and frame fixing in 150 mm thick in c.c.1:2:4, having crushed sand bed of 150 mm thick of size 750 mm dia. Including excavation and refilling the sides of chamber by sand crushed cushioning 150 mm thickness, connecting all required UPVC fittings with rubber lubricant etc.complete.	As Directected By Engineer Incharge	Number	19717.00	107.00
1476	Water Supply and Sanitary Fitting	43.30	Bd-V	Providing , laying and fixing ,jointing Eco- drain 110 mm SN 8 Nu-Drain Upvc pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees, coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc. complete.	As Directected By Engineer Incharge	Running Metre	314.00	7.00
1477	Water Supply and Sanitary Fitting	43.31	Bd-V	Providing , laying and fixing ,jointing Eco- drain 160 mm SN 4 Nu-Drain Upvc pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees , coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated materialetc. complete.	As Directected By Engineer Incharge	Running Metre	494.00	7.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1478	Water Supply and Sanitary Fitting	43.32	Bd-V	Providing , laying and fixing ,jointing Eco- drain 200 mm SN 4 Nu- Drain Upvc pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees tees, coupler etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated materialetc. complete.	As Directected By Engineer Incharge	Running Metre	881.00	7.00
1479	Water Supply and Sanitary Fitting	43.33	BDV	Providing and fixing 15 mm diameter PVC Aqua kraft type of approved make super bib tap with flange including all accessories etc complete	As Directected By Engineer Incharge	Number	339.00	16.00
1480	Water Supply and Sanitary Fitting	43.34	BDV	Providing and fixing 15 mm diameter PVC Aqua kraft type of approved make super Two Way bib tap with flange and extender including all accessories etc complete	As Directected By Engineer Incharge	Number	545.00	16.00
1481	Water Supply and Sanitary Fitting	43.35	BDV	Providing and fixing 15 mm diameter PVC Aqua kraft type of approved make super push button type cock / tap with flange including all accessories etc complete	As Directected By Engineer Incharge	Number	359.00	16.00
1482	Water Supply and Sanitary Fitting	43.36	BDV	Providing and fixing 15 mm diameter PVC Aqua kraft type of approved make super wall sink type tap with flange including all accessories etc complete	As Directected By Engineer Incharge	Number	788.00	16.00
1483	Water Supply and Sanitary Fitting	43.37	BDV	Providing and fixing 15 mm diameter PVC Aqua kraft type of approved make super jet spray with flange 2 in 1 faucet 1.50 metre long including all accessories etc complete	As Directected By Engineer Incharge	Number	601.00	16.00
1484	Water Supply and Sanitary Fitting	43.38	BDV	Providing and fixing 15 mm diameter PVC Aqua kraft type of approved make super right angle stop tap with flange including all accessories etc complete	As Directected By Engineer Incharge	Number	354.00	16.00
1485	Water Supply and Sanitary Fitting	43.39	BDV	Providing and fixing 15 mm diameter PVC Aqua kraft type of approved make super Pillar tap with flange including all accessories etc complete	As Directected By Engineer Incharge	Number	464.00	16.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1486	Water Supply and Sanitary Fitting	43.40	BDV	Providing and fixing ISI 1729/2002 grade 75 mm dia Cast Iron Waste Water Pipe with lugs necessary fittings such as bends, tees, single junction, double junction, slotted vent, offsets on wall or into the ground including filling joints with cement mortar 1:2 proportion fixing on wall by means by galvanised Mild Steel bracket of 30 x 5 mm plate and 8 mm square rod with Galvanised Iron clamp with washer as per design drawing and as directed to keep pipe 50 mm away from wall including necessary scaffolding and painting the exposed faces with one coat of red lead oil paint and two coats of gray oil paint including removing the existing pipe if necessary and conveying and stacking in PWD Chowky or as directed by Engineer-in-Charge.	As Directected By Engineer Incharge	Running Metre	1453.00	73.00
1487	Water Supply and Sanitary Fitting	43.41	BDV	Providing and fixing ISI 1729/2002 grade 100 mm dia Cast Iron Soil Pipes With lugs including plug bend necessary fittings such as bends, tees, single junction, double junction, slotted vent, offsets on wall or into the ground including filling joints with cement mortar 1:2 proportion fixing on wall by means of galvanised Mild Steel bracket of 30 x 5 mm plate and 8 mm square rod with Galvanised Iron clamp with washer as per design, drawing and as directed to keep pipe 50 mm away from wall including necessary scaffolding and painting the exposed faces with one coat of red lead oil paint and two coats of white oil paint including removing the existing pipe if necessary and conveying and stacking in PWD Chowky or as directed by Engineer-in-Charge.	As Directected By Engineer Incharge	Running Metre	1686.00	73.00
1488	Water Supply and Sanitary Fitting	43.42	BDV	Providing and fixing Wall Mounted European type white glazed earthenware water closet pan with UPVC seat and lid with chromium plated brass hinges and rubber buffers including UPVC and vent pipe up to the outside face of wall 10 liter enameled low level flushing cistern with fittings pipe stop tap brackets for fixing cistern 32 mm dia. UPVC flush pipe with fittings and clamps ,20 mm dia.UPVC overflow pipe ,mosquito proof couplings G.I. chain and pulley,with water Jet and fitting including cutting and making good to the walls and floors testing etc. complete.( prior approval of sample and brand by Ex. Engineer is necessary before use)	As Directected By Engineer Incharge	Number	11052.00	235.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1489	Building Miscellaneous Item	44.01	BDW 2	Guniting by dry mix process as per IS 9012 ( 1978) to ceiling sofit etc. in C.M. 1:3, 20mm thick under pressure of 2.1 kg to 2.8 kg per sq.cm including forms, scaffolding,floating the surface, curing for 14 days etc. complete (Excluding reinforcement)	Bd.W.2 Page No.582	Square Metre	508.00	257.00
1490	Building Miscellaneous Item	44.02	BDW 2A	Guniting by dry mix process as per IS 9012 ( 1978) to ceiling sofit etc. in C.M. 1:3, 25mm thick under pressure of 2.1 kg to 2.8 kg per sq.cm including forms, scaffolding,floating the surface, curing for 14 days etc. complete ( Excluding reinforcement)	Bd.W.2 Page No.582	Square Metre	540.00	257.00
1491	Building Miscellaneous Item	44.03	BDW 2B	Guniting by dry mix process as per IS 9012 ( 1978) to ceiling sofit etc. in C.M. 1:3,40mm thick under pressure of 2.1 kg to 2.8 kg per sq.m including forms, scaffolding,floating the surface, curing for 14 days etc. complete ( Excluding reinforcement)	Bd.W.2 Page No.582	Square Metre	628.00	257.00
1492	Building Miscellaneous Item	44.04	BDW 2C	Guniting by dry mix process as per IS 9012 ( 1978) to ceiling sofit etc. in C.M. 1:3,50mm thick under pressure of 2.1 kg to 2.8 kg per sq.cm including forms, scaffolding,floating the surface, curing for 14 days etc. complete ( Excluding reinforcement)	Bd.W.2 Page No.582	Square Metre	738.00	257.00
1493	Building Miscellaneous Item	44.05	BDW 2D	Guniting by dry mix process as per IS 9012 ( 1978) to beams in C.M. 1:3,20mm thick under pressure of 2.1 kg to 2.8 kg per sq.cm including forms, scaffolding,floating the surface, curing for 14 days etc. complete ( Excluding reinforcement)	Bd.W.2 Page No.582	Square Metre	539.00	288.00
1494	Building Miscellaneous Item	44.06	BDW 2E	Guniting by dry mix process as per IS 9012 ( 1978) to beams in C.M. 1:3,25mm thick under pressure of 2.1 kg to 2.8 kg per sq.cm including forms, scaffolding,floating the surface, curing for 14 days etc. complete ( Excluding reinforcement)	Bd.W.2 Page No.582	Square Metre	572.00	288.00
1495	Building Miscellaneous Item	44.07	BDW 2K	Guniting by dry mix process as per IS 9012 ( 1978) to the vertical surface ( other than column) in C.M. 1:3,20mm thick under pressure of 2.1 kg to 2.8 kg per sq.cm.including forms,scaffolding, floating the surface curing for 14 days etc.complete ( excluding reinforcement)	Bd.W.2 Page No.582	Square Metre	491.00	257.00
1496	Building Miscellaneous Item	44.08	BDW 2L	Guniting by dry mix process as per IS 9012 ( 1978) to the vertical surface ( other than column) in C.M. 1:3, 25mm thick under pressure of 2.1 kg to 2.8 kg per sq.cm.including forms,scaffolding, floating the surface curing for 14 days etc.complete ( excluding reinforcement)	Bd.W.2 Page No.582	Square Metre	520.00	257.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1497	Building Miscellaneous Item	44.09	BDW 3	Providing and erecting 1.5 metre high wire fencing with seven rows of barbed wire supported on M.S.Angles ( 50mm x 50mm x 6mm) at 2.5 Metres, Center to center including excavating pits for foundation, fixing post in cement concrete 1:4:8 of size 45 x 45 x 45 cm fastening the wire and painting the M.S.Angles with one coat of red lead primer and two coats of painting etc.complete.	Bd.W.3 Page No.583	Running Meter	716.00	192.00
1498	Building Miscellaneous Item	44.10	BDW 6	Providing and fixing mild steel grill gate with angle iron frame 65mm x 65mm x 10mm with iron bars at 150mm C/C and diagonal flats as per the detailed drawing including hinges, pivot block locking arrangement, welding riveting and oil painting of three coats of approved shade Weight of gate 35 Kg/Smt.	Bd.W.6 Page No.585	Square Metre	2333.00	401.00
1499	Building Miscellaneous Item	44.11	BDW 7	Providing and fixing 90 cm x 60 cm Marble plate engraving 10 cm. height letter, figures including painting the letters/figures with approved colour and shade complete	Bd.W.7 Page No.586	Number	6709.00	1663.00
1500	Building Miscellaneous Item	44.12	BDW 7	Providing and fixing 90 cm x 60 cm Granite plate engraving 10 cm. height letter, figures including painting the letters/figures with approved colour and shade complete	Bd.W.7 Page No.586	Number	7826.00	1907.00
1501	Building Miscellaneous Item	44.13	BDW	Providing and erecting 1.2 meter high wire fencing with five rows of barbed wire supported on mild steel angle ( 50 x 50x 6mm) post at 2.5 m c/c including excavation of pits of foundation concrete fixing the posts in ( 1:4:8) cement concrete block of 45x45x45 cm and fastening the Wires and painting the angles with one coat with red lead primer and two coats of oil painting etc.complete	Bd.W.3 Page No.583	Running Meter	657.00	182.00
1502	Building Miscellaneous Item	44.14	BDW	Providing and fixing rain tattis with bamboos and karve grass with 75 mm thick grass and removing the same after rain is over (size of bamboos 50 mm to 75mm dia and 3 M to 3.5 M long)	As directed by Engineer in charge.	Square Metre	88.00	49.00
1503	Building Miscellaneous Item	44.15	BDW	Providing and fixing grass chhapper (roof) with necessary bamboos and karve frame with 75mm. thick grass etc.removing the same after rain is over (size of bamboos 50mm to 75mm dia and 3 M to 3.5M long)	As directed by Engineer in charge.	Square Metre	110.00	51.00
1504	Building Miscellaneous Item	44.16	BDW	Providing and fixing grass chhapper (roof) with necessary bamboos and karve frame with 75mm. thick grass etc.removing the same after rain is over (size of bamboos 25mm dia and 3 M to 3.5 M long)	As directed by Engineer in charge.	Square Metre	123.00	64.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1505	Building Miscellaneous Item	44.17	BDW	Providing and fixing Bamboo Matting screen for partition with bamboo sticks	As directed by Engineer in charge.	Square Metre	187.00	119.00
1506	Building Miscellaneous Item	44.18	BDW	Providing and fixing lightning conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long ( Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm dia of required length with M.S. round base plate 25 Cm diam and 10mm thick at bottom embedded in cement concrete 1:3:6 foundation of size 45 cm diam x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plated nut bolts to fix earthing strip buried in specially prepared earth pits 1.5 metre below ground level with 40 kg charcoal and salt with alternate layers of charcoal and salt and G.I. pipe 40mm dia 2 meter length buried in earth upto earthing plate remaining portion above ground level for watering and refilling complete Note- Copper strip from lightning conductor is not considered in this item.	BDW 1 Page 581	Number	21962.00	4638.00
1507	Building Miscellaneous Item	44.19	BDW	Providing and fixing copper strip 25mm wide and 3mm thick for lightning conductor including fixing with screws required scaffolding etc. complete Note- Lightning conductor and earthing pits is not considered in this item	BdW 1 Page 581 as directed Engineer in Charge	Running Meter	634.00	244.00
1508	Building Miscellaneous Item	44.20	BDW	Providing and fixing in position aluminium strips of size 50mm x 3mm for nosing the steps including fixing with screws and raval plugs, bending and cutting to the required shape and size, finishing with paint, necessary mortar bedding of 1:3 cement mortar to get exact line and level including watering and curing etc. complete	As directed by Engineer in charge.	Running Meter	236.00	155.00
1509	Building Miscellaneous Item	44.21	BDW	Providing and fixing crimped with G.I. mesh and size 20 mm x 20mm 10 gauge to iron angle frame including welding crimp mesh to angle frame and steel flat, fixing the frame in its original position and oil painting etc. complete ( excluding cost of structural steel)	As directed by Engineer in charge.	Square Metre	600.00	295.00
1510	Building Miscellaneous Item	44.23	BDW	Providing and fixing welded mesh fabric for guniting of mesh size 75 mm x 75mm and 10 gauge thick including scaffolding etc. complete	As directed by Engineer in charge.	Square Metre	838.00	274.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1511	Building Miscellaneous Item	44.24	BDW	Providing and fixing welded mesh fabric for guniting of mesh size 150mm x 150mm and 10 guage i.e. 3.25mm thick including scaffolding etc.complete	As directed by Engineer in charge.	Square Metre	805.00	274.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1512	Building Maintenance	46.01	BDW 8-2	Removing double country tiled roof with ridge and with battens and stacking the materials as directed with all leads and lifts, complete including removing wood work below etc. complete	Bd.W.8 Page No.587	Square Metre	89.00	89.00
1513	Building Maintenance	46.02	BDW 8-4	Removing planking from roof or ceiling and stacking them sa directed with all leads and lifts etc. complete	Bd.W.8 Page No.587	Square Metre	40.00	40.00
1514	Building Maintenance	46.03	BDW 8-5A	Removing Queen Post truss from roof and stacking the materials as directed with all leads and lifts etc. complets	Bd.W.8 Page No.587	Number	1427.00	1427.00
1515	Building Maintenance	46.04	BDW 8-5B	Removing King Post truss from roof and stacking the materials as directed with all leads and lifts etc. complets	Bd.W.8 Page No.587	Number	933.00	933.00
1516	Building Maintenance	46.05	BDW 8-5C	Removing other type truss below 5 metres span from roof and stacking the materials as directed with all leads and lifts etc. complets	Bd.W.8 Page No.587	Number	700.00	700.00
1517	Building Maintenance	46.06	BDW 8-8	Dismantling flat wooden or A.C. Sheet ceiling with frame work including stacking the materials as directed with all leads, lifts etc. complete.	Bd.W.8 Page No.587	Square Metre	48.00	48.00
1518	Building Maintenance	46.07	BDW 8-9	Removing cloth ceiling including frame work and stacking the materials as ditected with all leads, lifts etc. complete	As directed by Engineer in charge.	Square Metre	24.00	24.00
1519	Building Maintenance	46.08	BDW 8	Dismantling brick masonry in Mud and stacking the materials as directed with all leads, lifts etc. complete.	As directed by Engineer in charge.	Cubic metre	209.00	209.00
1520	Building Maintenance	46.09	BDW 8	Dismantling brick masonry in lime or cement mortar and stacking the materils as directed with all leads, lifts etc.	As directed by Engineer in charge.	Cubic metre	268.00	268.00
1521	Building Maintenance	46.10	BDW 8	Dismantling stone masonry in Mud including stacking the materials as directed with all leads, lifts etc. complete.	As directed by Engineer in charge.	Cubic metre	215.00	215.00
1522	Building Maintenance	46.11	BDW 8	Dismantling stone masonry in lime or cement mortar including stacking the materils as directed with all leads, lifts etc.	As directed by Engineer in charge.	Cubic metre	304.00	304.00
1523	Building Maintenance	46.12	BDW 8	Removing lime or lean cement concrete including stacking the spoils as directed with all leads, lifts etc, complete.	As directed by Engineer in charge.	Cubic metre	447.00	447.00
1524	Building Maintenance	46.13	BDW 8	Removing rich mix cement concrete including stacking the spoils as directed with all leads, lifts etc, complete.	As directed by Engineer in charge.	Cubic metre	746.00	746.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1525	Building Maintenance	46.14	BDW 8	Removing brick bat coba including stacking the spoils as directed with all leads, lifts etc, complete.	As directed by Engineer in charge.	Cubic metre	507.00	507.00
1526	Building Maintenance	46.15	BDW 8	Removing doors and windows with frames and stacking the materials as directed with all leads, lifts etc. complete.	As directed by Engineer in charge.	Number	125.00	125.00
1527	Building Maintenance	46.16	BDW 8	Removing ventilators and small windows with frame and stacking the materials with all leads, lifts etc. complete.	As directed by Engineer in charge.	Number	105.00	105.00
1528	Building Maintenance	46.17	BDW 8	Removing wooden or A.C. partition including frame work and stack-ing the materials as with all leads, lifts etc. complete.	As directed by Engineer in charge.	Square Metre	32.00	32.00
1529	Building Maintenance	46.18	BDW 8	Removing teak wood trellies work with frame including stacking the materials as directed with all leads, lifts etc. complete.	As directed by Engineer in charge.	Square Metre	27.00	27.00
1530	Building Maintenance	46.19	BDW 8	Removing cement tiles, or marble or polished shahabad floor or dado without bed concrete including stacking the materials as directed with all leads, lifts etc. complete	As directed by Engineer in charge.	Square Metre	36.00	36.00
1531	Building Maintenance	46.21	BDW 8	Dismantling wooden floor including beams and joists, stacking the materials as directed with all leads, lifts etc. complete.	As directed by Engineer in charge.	Square Metre	29.00	29.00
1532	Building Maintenance	46.23	BDW 8	Removing mud plaster including disposing of the spoils as directed with all leads, lifts etc, complete.	As directed by Engineer in charge.	Square Metre	12.00	12.00
1533	Building Maintenance	46.24	BDW 8	Removing wire fencing with wooden post and stacking the material with all leads, lifts etc. complete.	As directed by Engineer in charge.	Running Metre	40.00	40.00
1534	Building Maintenance	46.25	BDW 8	Removing wire fencing with iron/ C.C. fencing post and stacking the materials as directed with all leads, lifts etc. complete.	As directed by Engineer in charge.	Running Metre	54.00	54.00
1535	Building Maintenance	46.26	BDW 8	Removing iron pipe raling having wooden R.C.C. or C.C. or iron post and stacking the materials as directed etc. complete.	As directed by Engineer in charge.	Running Metre	55.00	55.00
1536	Building Maintenance	46.27	BDW 8	Removing earthen, stonewate pipe and stacking them as directed with all leads, lifts etc. complete.	As directed by Engineer in charge.	Running Metre	18.00	18.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1537	Building Maintenance	46.28	BDW 8	Removing cast iron or wrought iron or A.C. pipe and stacking them as directed with all leads, lifts etc. complete.	As directed by Engineer in charge.	Running Metre	18.00	18.00
1538	Building Maintenance	46.29	BDW 8	Dismantling the R.C.C. Work 1:2:4 and sorting out the materials such as steel etc. as directed and stacking them within the specified lead as directed etc. complete.	As directed by Engineer in charge.	Cubic metre	1163.00	1163.00
1539	Building Maintenance	46.30	BDW 8	Removing Np-2 and Np-3 class pipes including stacking at road side as directed by the Engineer in charge. Upto 900mm dia. etc complete.	As directed by Engineer in charge.	Running Metre	216.00	80.00
1540	Building Maintenance	46.31	BDW 8	Removing Np-2 and Np-3 class pipes including stacking at road side as directed by the Engineer in charge. Upto 900mm dia and above. etc complete.	As directed by Engineer in charge.	Running Metre	276.00	139.00
1541	Building Maintenance	46.32	BDW 8	Removing single country tiled roof with battens and stacking the materials as directed with all leads and lifts etc. complete.	As directed by Engineer in charge.	Square Metre	57.00	57.00
1542	Building Maintenance	46.33	BDW 8	Removing battens from roof and stacking them as directed with all leads and lifts etc. complete.	As directed by Engineer in charge.	Running Metre	7.00	7.00
1543	Building Maintenance	46.34	BDW 8	Removing matting from roof and stacking as directed with all leads and lifts etc. complete.	As directed by Engineer in charge.	Square Metre	16.00	16.00
1544	Building Maintenance	46.35	BDW 8	Removing purlins from roof including stacking as directed with all leads , lifts etc. complete.	As directed by Engineer in charge.	Running Metre	17.00	17.00
1545	Building Maintenance	46.36	BDW 8	Removing rafters from roof including the materials as directed with all leads , lifts etc. complete.	As directed by Engineer in charge.	Running Metre	17.00	17.00
1546	Building Maintenance	46.37	BDW 8	Removing cloth partition with frame work and stacking the materials as directed with all leads , lifts etc. complete.	As directed by Engineer in charge.	Square Metre	15.00	15.00
1547	Building Maintenance	46.38	BDW	Providing and fixing Jute Kantan (Tarat) screen to the scaffold-ing for external guniting as directed including removing the same after the work is over etc. complete.	As directed by Engineer in charge.	Square Metre	51.00	15.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1548	Building Maintenance	46.39	BDW	Providing and erecting chain link fencing 1.6 M. height with G.I. chain link of size 50 x 50 mm, 8 gauge thick and fixed 75 mm above ground level on vertical M.S. Angles of 40 x 40 x 6 mm size, including excavating pits for foundation and embedded in C.C. block of 1:4:8 mix of size 450 x 450 x 670 mm. at 1.75 M. c/c with iron bar 16mm dia as hold fast including welding link with angle frame at 30 cm c/c with nuts and bolts and horizontal M.S. Angles at top and bottom of 25 x 25 x 5 mm size and vertical M.S. flat 35 x 5 mm and 25 x 5 mm horizontal including cross support of 40 x 40 x 6 mm angles both side at every corner or bend embedded in concrete blocks of 1:4:8 of size 450 x 450 x 670 mm including 3 coats of oil painting etc. complete.	As directed by Engineer in charge.	Running Metre	1871.00	261.00
1549	Building Maintenance	46.40	BDW	Removing urinal pans or wash hand basins with frame including disconnecting the sanitary and water supply connections, removing the same carefully and stacking the serviceable materials as and where directed including throwing the unserviceable materials outside etc complete	As directed by Engineer in charge.	Number	77.00	77.00
1550	Building Maintenance	46.41	BDW	Removing W.C. pans including disconnecting the sanitary and water supply connections, removing and breaking flooring and bed con-crete around pan removing the same carefully and stacking the serviceable materials as adn where directed including throwing the unserviceable materials out side etc. carefully and throwing out the refusal outside etc. complete.	As directed by Engineer in charge.	Number	165.00	165.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1551	Building Maintenance	46.42	BDW	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge. Note:- (1) The elevational area of the scaffolding shall be measured for payment purpose. (2) The payment will be made once only for execution of all items for such works.	As directed by Engineer in charge.	Square Metre	160	160
1552	Building Maintenance	46.43	BDW	Removing Manglore tiled roof and ridge tiles with battens, ridge and barge boards, eaves & A boards etc and sacking the materials as directed with all leads and lifts complete. Including removing wood work below etc. complete.	As directed by Engineer in charge.	Square Metre	92.00	92.00
1553	Building Maintenance	46.44	BDW	Providing and erecting 1.5 metre high wire fencing with seven rows of barbed wire supported on M.S. Angles (50 mm x 50 mm x 6 mm) at 2.5 metres centre to centre including excavating pits for foundation, fixing posts in cement concrete of size 45 x 45 x 45 cm, fastening the wire and painting the M.S. Angles with one coat of red lead primer and two coats of painting etc. complete.	Bd.W.3 Page No.583	Running Meter	657.00	182.00
1554	Building Maintenance	46.45	BDW	Providing and erecting 1.5 metre high wire fencing with seven rows of barbed wire supported on wooden post of specified size at 2.5 M C/C including excavating pits for foundation, fixing post in cement concrete 1:4:8 block of concrete of size 45 x 45 x 45 cm fastening the wire and coal tarring wooden post in two coats etc. complete.	Bd.W.4 Page No.583	Running Meter	667.00	182.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1555	Building Maintenance	46.46	BDW	Replacement of damaged alluminium Butt Hinges of 125 mm of approved quality and make to door shutter including removing existing the same in original position making proper adjustment for smooth operation etc. complete as per sample approved by Engineer incharge.	As directed by Engineer in charge.	Number	181.00	78.00
1556	Building Maintenance	46.47	BDW	Replacement of damaged Mortise Lock of approved quality and make to door shutter including Removing and Refixing with Necessary screw, making proper adjustment for smooth operation etc. complete as per sample approved by Engineer in-chareg.	As directed by Engineer in charge.	Number	1023.00	98.00
1557	Building Maintenance	46.48	BDW	Replacement of damaged Aldrop 300 mm Chromium plated of approved quality and make to door shutter including removing existing the same in original position making proper adjustment for smooth operation etc. complete as per sample approved by Engineer in-charge.	As directed by Engineer in charge.	Number	259.00	41.00
1558	Building Maintenance	46.49	BDW	Replacement of damaged Aldrop 300 mm Iron Oxidised of approved quality and make to door shutter including removing existing the same in original position making proper adjustment for smooth operation etc. complete as per sample approved by Engineer in-charge.	As directed by Engineer in charge.	Number	223.00	41.00
1559	Building Maintenance	46.50	BDW	Replacement of damaged Tower Bolt 300 mm Chromium plated of approved quality and make to door/window shutter including removing existing the same in original position making proper adjustment for smooth operation etc. complete as per sample approved by Engineer in-charge.	As directed by Engineer in charge.	Number	126.00	20.00
1560	Building Maintenance	46.51	BDW	Replacement of damaged Alluminium Handle 125 mm of approved quality and make to door/window shutter including removing existing the same in original position making proper adjustment for smooth operation etc. complete as per sample approved by Engineer in-charge.	As directed by Engineer in charge.	Number	122.00	41.00
1561	Building Maintenance	46.52	BDW	Replacement of damaged Lock of approved quality and make to cupboard and doorwer including Removing and Refixing with necessary screw, making proper adjustment for smooth operation etc. complete as per sample approved by Engineer in-charge.	As directed by Engineer in charge.	Number	168.00	20.00
1562	Building Maintenance	46.53	BDW	Removing chockes and leakages from down take G.I/CI/PVC pipe line on walls floor level by using zoola / scaffolding and rectify the same for functioning with all lifts etc. complete.	As directed by Engineer in charge.	Number	250.00	250.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1563	Building Maintenance	46.54	BDW	Manually clearing the chockes from under ground drainage line including Inspection chambers with the help of required tools for propre functioning line chamber to chamber etc. complete.	As directed by Engineer in charge.	Running Metre	39.00	39.00
1564	Building Maintenance	46.55	BDW	Manually clearing by removeing the chockes from Nahni Trap, Gully Trap, Wash basin unit, Sink and WC with the help of required tools for proper functioning the same etc. complete.	As directed by Engineer in charge.	Number	149.00	149.00
1565	Building Maintenance	46.56	BDW	Filling tiles joint portion of flooring and dado filling with white cement by removing existing loose mortar/ cement slurry from joint with tools and finish with washing cleaning and curing etc. complete.	As directed by Engineer in charge.	Square Metre	183.00	156.00
1566	Building Maintenance	46.57	BDW	Providing and fixing 6 mm thick commercial plywood with jungle wood frame work of 50 x 35 mm size at 60 cm on both ways for closing the window portion/openings for protection from falling debris, dust etc. including cutting, fixing with nails and removing after the same after completion of the work. (To be used after approval of Superintending Engineer)	As directed by Engineer in charge.	Square Metre	892.00	173.00
1567	Building Maintenance	46.58	BDW	Removal of plants / ficus grown by pulling out root system embedded in masnory, cutting stem and application of high/gur/lime formulation as specified by the Architect or other patented chemical biocide treatment such as biocide 'Glycel' (iso proplamine salt of glyphosate) or other chemical as specified by the Engineer in charge etc. complete.	As directed by Engineer in charge.	Number	160.00	65.00
1568	Building Maintenance	46.59	BDW	Lowering down the debris obtained from breaking and removing the cement plaster / burnt brick masonry of the first floor by any means without causing dust nuisance and damage to structure, stacking the same as and where directed including cleaning the site complete.	As directed by Engineer in charge.	Cubic metre	603.00	603.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1569	Structural Strengthening	47.01	BDSS	Providing & Applying chemical for cleaning the exposed steel structure, TMT bars, etc. of structure by grinding the surface by grinder machine, wire brush, removing existing corrosion from the metal also removing loose particles, of the area by water jet, (using other mechanical / manual means) and apply on prepared surface of DuraGuard- as corrosion preventive coat on prepared TMT bars, steel structure,metal surface etc. to protect it from corrosion etc. as per manufacturer's specification ( using other manual / mechanical means) after that Providing and applying high abrasive resistant, self curing, UV resistant,impermeable ,high strength, non shrink, Poly Ironite Ceramic Cementitious (PICC) repair mortar resurfacing on concrete surface of thickness up to 10 mm including breaking honey comb area, (using manual/mechanical means) , clean the concrete surface with special chemical clonon with pressure water jet for removing of algae fungi, apply bond coat Kelox water misible epoxy before PICC application with all leads and lifts, Material, Machinery, labour, scaffolding, etc. complete as per specification and as directed by engineer-in-charge.	As directed by Engineer in charge.	Square Metre	3780.00	440.00
1570	Structural Strengthening	47.02	BDSS	Providing and grouting the holes by Poly Ceramic Cementitious i.e NicGrout G 06 + 53 grade cement material of as per requirement to reduce the porosity of concrete / Masonry structure and to increase the strength of structure using grouting pipes , grouting m/c, mixer etc and all relevant safety with all leads and lifts, material, machinery, labour, etc. Complete as per specification and as directed by Engineer-in-Charge.	As directed by Engineer in charge.	Kilogram	74.00	26.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1571	Structural Strengthening	47.03	BDSS	Providing and applying high abrasive resistant, UV resistant,impermeable ,self curing,high strength, non shrink, Poly Ironite Ceramic Cementitious (PICC) repair mortar for water proofing on concrete surface with thickness up to 5 mm, , apply bond coat Kelox Water Misible epoxy before PICC application (using manual/mechanical means) and Providing and Applying PCC up to 50 mm thickness for desire slope to drain the water and kept ponded for continuous period of 3 days to detect any seepage / leakage/ dampness if any, the surface then shall be cleared, complete as per specification including cost of all materials, machinery, labour, insurance charges as directed by the Engineer in charge.	As directed by Engineer in charge.	Square Metre	1438.00	151.00
1572	Structural Strengthening	47.04	BDSS	PICC Coating for concrete Bridge repair work :-Providing and applying Poly Ironite Ceramic Cementitious (PICC) material of Self curing ,High Abrasion resistant , Non shrink ,High strength,UV resistant, repair mortar coating on bond coat Kelox water missable epoxy of on concrete surface upto 10 mm thickness including Cleaning the concrete surface of bridge by grinding the surface by grinder machine with wire brush /diamond wheel, removing existing loose particles etc. by using grinder, wire brush,breaker machine, water jet(using other mechanical / manual means) also removing of algae fungi by special chemical of clonon etc.complete with all leads and lifts, Material, Machinery, Labour, Scaffolding etc. complete as per specification and as directed by engineer-in-charge.	As directed by Engineer in charge.	Square Metre	4857.00	1052.00
1573	Structural Strengthening	47.05	BDSS	Removal of Vegetation/Plants:- Removal of entire root inside the bridge portion. Remains of the root shall be treated with special chemical Steripure MBT 20. Top 50 mm shall filled with high strength grout including cost of all material, machinery, labour, scaffolding, etc.as per specification and as directed by Engineer-in-Charge.	As directed by Engineer in charge.	Square Metre	1355.00	511.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1574	Structural Strengthening	47.06	BDSS	Providing & Applying DuraClean- WR for cleaning the TMT bars, steel structure etc. of structure by Waterjet cleaning/ grinding the surface by grinder machine, wire brush, removing existing corrosion from the metal surface also removing loose particles(using other mechanical / manual means) and apply on prepared surface of DuraGuard - as corrosion preventive coat on prepared TMT bars, steel structure,metal surface etc. to protect it from corrosion etc. as per manufacturer's specification ( using other manual / mechanical means) complete as per specification including cost of all materials, machinery, labour, insurance charges as directed by the Engineer in charge.	As directed by Engineer in charge.	Square Metre	1452.00	67.00
1575	Structural Strengthening	47.07	BDSS	PICC filling for Honey combing area at concrete surface:-Providing and applying Poly Ironite Ceramic Cementitious (PICC) material of Self cureing ,High Abrasion resistant , Non shrink ,High strength,UV resistant, repair mortar coating on Kelox water missble epoxy of concrete surface fill the honey combing area etc. on tacky primer coat upto 10 mm thickness or as per the surface conditions including Cleaning the concrete surface of bridge by grinding the surface by grinder machine with wire brush /diamond wheel, removing existing loose particles etc. by using grinder, wire brush,breaker machine, water jet(using other mechanical / manual means) also removing of algae fungi by special chemical of clonon. etc.complete with all leads and lifts, Material, Machinery, Labour, Scaffolding etc. complete as per specification and as directed by engineer-in-charge.	As directed by Engineer in charge.	Square Metre	5119.00	1343.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1576	Structural Strengthening	47.08	BDSS	Providing and applying Poly Ironite Ceramic Cementitious (PICC) of self curing, a high abrasion resistant, non-shrink, high strength, low porosity, UV resistant repair mortar on Concrete road etc including cleaning the Concrete surface on concrete road by breaking, cleaning with wire brush , removing existing loose particles etc. by using wire brush, breaker machine, air (using other mechanical / manual means) then applying Kelox ( water missible epoxy)of , bond coat on prepared concrete surface for bonding the old surface to new repair mortar etc. as per manufacturer's specification ( using other manual / mechanical means) then apply repair mortar of PICC to fill the concrete surface upto 15 mm coat etc. complete with all leads and lifts, Material, Machinery, Labour etc. complete as per specification and as directed by engineer-in-charge.	As directed by Engineer in charge.	Square Metre	5103.00	322.00
1577	Structural Strengthening	47.09	BDSS	Providing and applying Poly Ironite Ceramic Cementitious (PICC) of self curing, a high abrasion resistant, non-shrink, high strength, low porosity, UV resistant repair mortar on Concrete road etc including cleaning the Concrete surface on concrete road by breaking, cleaning with wire brush , removing existing loose particles etc. by using wire brush, breaker machine, air (using other mechanical / manual means) then applying Kelox ( water missible epoxy)of , bond coat on prepared concrete surface for bonding the old surface to new repair mortar etc. as per manufacturer's specification ( using other manual / mechanical means) then apply repair mortar of PICC to fill the concrete surface upto 25 mm coat etc. complete with all leads and lifts, Material, Machinery, Labour etc. complete as per specification and as directed by engineer-in-charge.	As directed by Engineer in charge.	Square Metre	7136.00	322.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1578	Structural Strengthening	47.10	BDSS	Providing and applying Poly Ironite Ceramic Cementitious (PICC) of self curing, a high abrasion resistant, non-shrink,high strength, low porosity, UV resistant coating mortar on existing GSB of 100 mm thickness , get levelled the surface and cure then applying self curing coating PICC mortar for 50 mm thickness after stamp the surface by special concrete stamping mold as per specified texture and colour etc.complete with all leads and lifts, Material, Machinery, Labour etc. complete as per specification and as directed by engineer-in-charge.	As directed by Engineer in charge.	Square Metre	3004.00	87.00
1579	Masonry Bridge Repair	47.11	BDSS	Masonry Bridge repair work:-Providing pointing on masonry surface of Bridge with UV resistance, Non-shrink. high strength, high abrasion, material like Poly Ironite Ceramic Cementitious (PICC) self curing cementitious material for masonry joint filling to depth of 20mm including pointing work of masonry by removing of existing loose portion of stone masonry by braking removing existing loose particles upto required depth 50 mm or as per site confition cleaning with special chemicals clonon and water jet under pressure for removing algae, fungi, applying bond coat Kelox water missable epoxy before repair material application complete as per specification including cost of all material, machinery, labour,scaffolding, transportation etc. with all leads and lifts as directed by the engineer-in-charge.	As directed by Engineer in charge.	Square Metre	5454.00	1345.00
1580	Structural Strengthening	47.12	BDSS	Providing & Applying DuraClean- WR - for cleaning the TMT bars, steel structure etc. of structure by Waterjet cleaning/ grinding the surface by grinder machine, wire brush, removing existing corrosion from the metal surface also removing loose particles(using other mechanical / manual means) and apply on prepared surface of DuraCap 2 coats corrosion preventive coat on prepared TMT bars, steel structure,metal surface etc. to protect it from corrosion etc. as per manufacturer's specification ( using other manual / mechanical means) complete as per specification including cost of all materials, machinery, labour, insurance charges as directed by the Engineer in charge.	As directed by Engineer in charge.	Square Metre	515.00	19.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1581	Bitumen and concrete road Pot Hole Repairing	47.13	BDSS	Providing and applying Poly Ironite Ceramic Cementitious (PICC) of self curing, a high abrasion resistant, non-shrink, high strength, low porosity, UV resistant repair mortar to fill the pot holes on Concrete/Bitumen road including cleaning the pot holes on concrete/Bitumen road by breaking, clean with wire brush , Air blower, removing existing loose particles etc. by using wire brush, breaker machine, air jet(using other mechanical / manual means) then applying Kelox water missiable epoxy bond coat on prepared concrete/Bitumen surface pot hole for bonding the old surface to new repair mortar etc. as per manufacturer's specification ( using other manual / mechanical means) then apply repair mortar to fill the pot holes on concrete/Bitumen surface upto 75 mm depth to match existing road thickness etc. Complete with all leads and lifts, Material, Machinery, Labour etc. complete as per specification and as directed by engineer-in-charge.	As directed by Engineer in charge.	Kg./Sqm	56.00	3.00
1582	Bitumen and concrete road Pot Hole Repairing	47.14	BDSS	Providing and applying Poly Ironite Ceramic Cementitious (PICC) of self curing, a high abrasion resistant, non-shrink, high strength, low porosity, UV resistant repair mortar to fill the pot holes on Concrete/Bitumen road including cleaning the pot holes on concrete/Bitumen road by breaking, clean with wire brush , Air blower, removing existing loose particles etc. by using wire brush, breaker machine, air jet(using other mechanical / manual means) then applying Kelox water missiable epoxy bond coat on prepared concrete/Bitumen surface pot hole for bonding the old surface to new repair mortar etc. as per manufacturer's specification ( using other manual / mechanical means) then apply fast seting repair mortar to fill the pot holes on concrete/Bitumen surface upto 75 mm depth to match existing road thickness etc. & movement the vehical within 1 hour. complete with all leads and lifts, Material, Machinery, Labour etc. complete as per specification and as directed by engineer-in-charge.	As directed by Engineer in charge.	Kg./Sqm	149.00	3.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1583	Structural Strengthening	47.15	BDSS	Providing and applying 30 mm thick self curing Ceremic Polymer Microconcrete of approved make having Compressive strength above M30, non shrink, impermeable , filling mortar to load carrying R.C.C member in two layers on cleaned concrete surface , including honey comb area (using manual/mechanical means). Mixing mortar of Nicosil C80 and fresh 53 grade cement with required water cement ratio for desired consistency and applying and finishing by manual trawelling , curing after curing initial setting time etc, as per manufacturers specification etc. complete as per specification and as directed by engineer-in-charge. Work shall be executed by certified applicator only and work shall be guaranteed for 5 years and guarantee shall be provided on Rs. 500 /- stamp paper. (Bond coat mentioned below is to be done before coating)	As directed by Engineer in charge.	Square Metre	2387.00	167.00
1584	Structural Strengthening	47.16	BDSS	Providing and applying Kelox R 101 (Resin) + Kelox H 404 (Hardner) water misible epoxy of approved make for bonding old concrete to new moratr after mixing slowly in predefined ratio and applying by brush on the surface, when it is tacky then apply the moratr complete as per specification and as directed by engineer-in-charge. Work shall be executed by certified applicator only and work shall be guaranteed for 5 years and guarantee shall be provided on Rs. 500 /- stamp paper	As directed by Engineer in charge.	Square Metre	712.00	63.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				<b>SSR 2019-20 GREEN BUILDING</b>				
1585	Masonry	48.01		Providing and constructing <b>non load bearing wall with 200mm Horizontally perforated clay hollow blocks</b> of approved make with compressive strength not less than 35 kg/Sqcm, U value of 47.0 W/m2K, Water Absorption of 15%, masonry to be done using fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) cement mortar 1:6 with blocks of size 400mm x 200mm x 200mm (12.5 bricks per Sqm. excluding mortar joint thickness) including cost of materials, labour charges, scaffolding, curing at all heights, complete as per specifications & directions of Engineer-in Charge. Cost shall be inclusive of filling the Blocks with Cement mortar at exposed junctions and filling with concrete using 12mm down size aggregates at Window and door Jambs for fixing hold fast, anchors etc.	As directed by Engineer in charge	Square Metre	1820	466
1586	Masonry	48.02		Providing and constructing <b>non load bearing wall with 150mm Horizontally perforated clay hollow blocks</b> of approved make with compressive strength not less than 35Kg/Sqcm, U value of 47.0 W/m2k, Water Absorption of 15%, with cement mortar 1:6 with blocks of size 400mm x 150mm x 200mm (12.5 bricks per Sq.m excluding mortar joint thickness) including cost of materials, labour charges, scaffolding, curing at all heights, complete as per specifications & directions of Engineer-in Charge. Cost shall be inclusive of filling the Blocks with Cement mortar at exposed junctions and filling with concrete using 12mm down size aggregates at Window and door Jambs for fixing hold fast, anchors etc.	As directed by Engineer in charge	Square Metre	1530	426



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1587	Masonry	48.03		Providing and constructing <b>non load bearing wall with 100mm Horizontally perforated clay hollow blocks</b> of approved make with compressive strength not less than 35Kg/Sq.cm, U value of 47.0 W/m <sup>2</sup> k, Water Absorption of 15%, with cement mortar 1:6 with blocks of size 400mm x 100mm x 200mm (12.5 bricks per Sqm. excluding mortar joint thickness) At every 5th course level, Concrete band of 100mm thick with 1:3:6 Mix Concrete along with Nominal Reinforcement to be provided. The rate inclusive of cost of materials, labour charges, scaffolding, curing at all height, complete as per specifications & directions of Engineer-in Charge. Cost shall be inclusive of filling the Blocks with Cement mortar at exposed junctions and filling with concrete using 12mm down size aggregates at Window and door Jambs for fixing hold fast, anchors etc.	As directed by Engineer in charge	Square Metre	1331	386

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1588	Flooring	48.04		Providing and laying <b>18 mm thick ADONI BROWN LEATHER FINISH stone for flooring</b> , machine cut in required size, approved shade, color and texture laid using white cement slurry over 20 mm (average) thick base of cement mortar 1:4 followed by laying, fixing and jointed with white cement slurry mixed with matching pigment, including rubbing and curing moulding and polishing to edge to give high gloss finish etc complete. The application rate for tile adhesives shall be as per manufacturer's recommendations. as per detail drawing. The rate shall be inclusive of all labour, material, wastage, scaffolding, transportation, taxes, including all leads, lifts at all levels and as directed by Engineer in charge. Complete. a) Flooring	As directed by Engineer in charge	Square Metre	3599	150
1589	Flooring	48.05		Providing and laying <b>18 mm thick ADONI BROWN LEATHER FINISH stone for flooring</b> , machine cut in required size, approved shade, color and texture laid using white cement slurry over 20 mm (average) thick base of cement mortar 1:4 followed by laying, fixing and jointed with white cement slurry mixed with matching pigment, including rubbing and curing moulding and polishing to edge to give high gloss finish etc complete. The application rate for tile adhesives shall be as per manufacturer's recommendations. as per detail drawing. The rate shall be inclusive of all labour, material, wastage, scaffolding, transportation, taxes, including all leads, lifts at all levels and as directed by Engineer in charge. Complete. a) Skirting	As directed by Engineer in charge	Square Metre	4536	909

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1590	Flooring	48.06		Providing and Laying <b>factory made coloured chamfered edge Cement concrete grass paver blocks</b> of required strength,thickness & size/shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of fine aggregate (natural sand/crushed sand VSI grade finely washed etc.), compacting and proper embedding/laying of inter locking paver blocks into the fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) bedding layer through vibratory compaction by using plate vibrator, filling the joints with fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) and cutting of paver blocks as per required size and pattern, finishing and sweeping extra fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) and complete as per manufacturer specifications & direction of Engineer-in-Charge. 60mm thick CC paver block of M-35 grade concrete with approved colour and design & pattern.	As directed by Engineer in charge	Square Metre	742	0
1591	Flooring	48.07		<b>Bamboowood 14 mm thick tile flooring</b> including quarter round, door reduces and plywood-Providing & fixing in position Phenol bonded Epitome Bamboowood flooring with planks of sizes 14mm thick, 1800mm length (minimum) and 130mm wide (minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (MBTPC). The flooring shall be fixed with tongue and groove interlocking system, with plywood of mr grade of 18mm thickness as base and underlayment of 4mm thick expanded poly ethylene foam sheets having density 40kg/cum, over prepared surface with necessary quarter round planks of size 1900mm x 18mm and dorr reducer of size 1900mm x 44mm, wherever required. The Epitome Bamboowood planks shall have minimum density of 1000 kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of Engineer in-charge.	As directed by Engineer in charge	Square Metre	7293	190

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1592	Flooring	48.08		<b>Bamboowood 14mm thick Tile Flooring</b> including quarter round & door reducer - Providing & fixing in position Phenol bonded Epitome Bamboowood flooring with planks of sizes 14mm thick, 1800mm length (minimum) and 130mm wide (minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building materials & Technology Promotion Council (BMTPC). The flooring shall be fixed with tongue and groove interlocking system, with 2mm underlay as sound abrobing and moisture barrier and underlayment of 4mm thick expanded poly ethylene foam sheets having density 40kg/cum, over prepared surface with necessary quarter round planks of size 1900mm x 18mm and dorr reducer of size 1900mm x 44mm, wherever required. The Epitome Bamboowood planks shall have minimum density of 1000 kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of Engineer in-charge	As directed by Engineer in charge	Square Metre	5805	190
1593	Flooring	48.09		Bamboowood 14mm thick wall Skirting - Providing & fixing in position <b>Phenol bonded Epitome Bamboowood in wall skirting with planks of sizes 14mm thick, 1900mm length (minimum) and 85mm wide (minimum)</b> , in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building materials & Technology Promotion Council (BMTPC). The skirting shall be fixed SS screws & rawl plugs, over underlayment of 4mm thick expanded poly ethylene foam sheets having density 40kg/cum, over prepared surface. The Epitome Bamboowood planks shall have minimum density 1000 kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of Engineer in-charge	As directed by Engineer in charge	Square Metre	6124	843

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1594	Flooring	48.10		<b>Bamboowood 20mm thick Decking Outdoor Flooring Tile</b> Providing & fixing in position Phenol bonded Epitome Bamboowood deck flooring tiles with planks of sizes 20mm thick, 1900 mm length and 135mm wide ,in approved colour , texture and finish , having performance Appraisal Certificate (PAC) issued by Building Materials& Technology promotion Council (BMTPC)with necessary profiled edges and groove fixed with 40mm ss screws 3 nos in each tile to frame work made of second class seasoned and treated teak wood of size 38x38 mm placed underneath across the tile at both ends and in centre fixed with clips holding in position. The Epitome Bamboowood planks shall have minimum density of 1000 kg/cum & minimum hardness 1000 kgf.all complete as per direction of engineer in-charge.	As directed by Engineer in charge	Square Metre	10490	299

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1595	Colouring	48.11		Providing and applying <b>2 coats of 100% Pure acrylic low VOC and APEO &amp; HCHO free water based paint</b> of approved colour that belongs to class 1 flame spread resistance of approved make Paint should provide durable and long lasting silk finish with a high crack tolerance of upto 1mm. Paint should have an outstanding washability with high resistance to wide range of bacteria and fungus. Paint has to be applied on smooth and uniform surface prepared by an acrylic copolymer low VOC & Odour putty. This surface should be primed with water based low VOC Primer. The work activity should cover all aspects of applying paints from surface preparation as directed by Engineer in charge.	As directed by Engineer in charge	Square Metre	291	0
1596	Colouring	48.12		Providing and applying <b>2 Coats of 100% Pure acrylic water based paint with special heat reflectance property</b> to withstand the harsh climate for period of atleast 10 years of approved make. Paint system should provide durable and long lasting finish with DFT of min 90 microns and should protect against concrete carbonation with R value of minimum 600 and equivalent concrete layer thickness value of min 150 cm. Paint should have breathability property and should be able to cover hairline cracks in the surface upto 0.5mm The paint has to be applied on a coat of high quality acrylic copolymer based alkali resistant primer with excellent penetrating properties including cleaning, with all leads and lifts at all levels etc complete, as directed by Engineer in charge.	As directed by Engineer in charge	Square Metre	209	0

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1597	Colouring	48.13		Providing and applying 2 <b>Coats of high quality acrylic copolymer matt latex low VOC emulsion paint</b> of approved shadethat gives smooth, flat and washable and durable finishing of approved make. Paint should have good flow levelling property with good colour retention and incan antibacterial property. Paint has to be applied on smooth and uniform surface prepared by an acrylic copolymer low VOC & Odour putty. This surface should be primed with water based low VOC acrylic copolymer based primer sealer that has incan antibacterial property. The work activity should cover all aspects of applying paints from surface preparation, filling to erecting and dismantling of scaffolding, finishing the surface etc as directed by Engineer in charge.	As directed by Engineer in charge	Square Metre	136	0
1598	Colouring	48.14		Providing and applying 2 <b>Coats of 100% Pure acrylic low VOC water based paint</b> with to withstand for period of atleast 5 years of approved make. Paint should provide durable long lasting silk finish with high resistance to UV and resistance to spreading of flame. Paint should protect against concrete carbonation with R value of minimum 600 and ability to built cracks upto min 0.7mm. The paint has to be applied on High quality water based acrylic copolymer primer with good alkali resistance properties. With all leads and lifts at all levels etc. complete, as directed by Engineer in charge.	As directed by Engineer in charge	Square Metre	154	0
1599	Colouring	48.15		Providing and applying <b>impression 24 carrat Luxury paint</b> of approved make & approved brand Emulsion paint to interior walls and ceilings of approved quality, colour and shade to new surface in two coats, including sub surface prparation by Acrylic putty and Acrylic primer coats including scaffolding, preparing the surface. etc. complete <b>(Low VOC)</b> .	As directed by Engineer in charge	Square Metre	188	0
1600	Colouring	48.16		Providing and applying <b>antipeel paint</b> of approved make & approved brand exterior Emulsion paint of approved quality, colour and shade to old and new surface in two coats, including exterior acrylic primer coat, scaffolding, preparing the surface etc. complete <b>(Heat Reflective Paint)</b> .	As directed by Engineer in charge	Square Metre	209	0

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1601	Colouring	48.17		Providing and applying <b>top coat exterior paint to terrace</b> of approved make, shade and quality and one coat of primer before applying textured paint including scaffolding if necessary preparing surface by thoroughly cleaning of oil, grease, dirt and other material and fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) preparing as required, etc. complete.	As directed by Engineer in charge	Square Metre	78	0
1602	Roofing	48.18		Providing & laying <b>water proof treatment of terrace slab with B.B. Coba</b> in all position with an average thickness of 150mm consisting specialised materials as per the manufactures specifications and covering 10 years guarantee on court fee stamp paper including all lead, lift, etc. complete.	As directed by Engineer in charge	Square Metre	1464	473
1603	Roofing	48.19		Providing and applying <b>two coats of High Albedo paint having minimum Solar Reflective Index (SRI) 108</b> (with solar reflectance & thermal emittance tested as per ASTM) C 1549 and ASTM C 1371 respectively, VOC less than 10 cc/gm. The coating thickness and the methodology of application shall strictly as per manufacturer's specifications and as approved by engineer in charge. Surface preparation includes cleaning with metal wire brush to remove all dust, fungus etc, washing with water all complete.The contractor shall give guarantee for the performance of SRI and also the durability of coating, all complete as per direction of Engineer - in- incharge.	As directed by Engineer in charge	Square Metre	236	0



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1604	Doors & Windows	48.20		<b>Bamboowood paneling or paneling and glazing in paneled and glazed shutters for doors of 25 to 40mm thick.</b> Providing & fixing in position Phenol bonded Bamboowood paneling of 10mm thick, in 25 to 40 mm thick paneled or paneled and glazed shutters for doors, windows, clerestorey windows in approved colour, texture & finish. The bamboo wood planks shall have minimum density of 1000 kg/cum & minimum Hardness 1000 Kgf. The panels shall have profiled interlocking system locked in place with bamboo pins, all complete as per direction of the Entgineer inchargeand (Area of opening for panel inserts excluding portion inside grooves or rebates)	As directed by Engineer in charge	Square Metre	3192	563
1605	Doors & Windows	48.21		<b>Bamboowood paneled or paneled and glazed Shutters of Doors</b> Providing of fixing, in position Phenol bonded Bamboowood panelled or paneled and glazed shutters for doors, windows, clerestorey windows with pre-molded 30mm thick planks, in approved colour, texture & finish. It shall have 10mm wide, 25mm deep grove to fit inpanels. The bamboowood shall have minimum density of 1000 Kg/cum, minimum Hardness 1000 Kgf. All styles and rails shall have profiled interlocking system locked in place by bamboo pins, all complete as per direction of Engineer in-charge (The paneling will be paid for separately)	As directed by Engineer in charge	Square Metre	5133	191
1606	Doors & Windows	48.22		Providing and fixing in position <b>U.P.V.C.(Unplasticized Poly Vinyl Chloride) having multi-chambered outer frame section (73 x 50)mm</b> with an outer wall thickness of 2mm & steel reinforcement, multi-chambered slider frame (73x 60) mm with steel reinforcement, multi-chambered slider sash (46x 82) mm with steel reinforcement designed to give optimum strength, 5 mm thick toughened double glass with 12 mm spacer of good quality including alluminium track, Inter-locking profile, coextruded beadings, EPDM gaskets,silicon sealent,sliding handle, fixtures and fastenings (couplings, hinges) including with all required screws and nuts with all necessary U.P.V.C. sections as per the detailed drawing and as directed by Engineer-In-Charge etc. complete.	As directed by Engineer in charge	Square Metre	9462	0

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1607	Doors & Windows	48.23		<b>Sliding Window- 3 Track (2 Glass shutter + 1 flymesh)</b> of approved make <b>with DGU</b> , providing and fixing of Sliding Window- 3 Track (2 Glass shutter + 1 flymesh ). For details refer to Specifications. As directed by Engineer in charge.	As directed by Engineer in charge	Square Metre	20450	0
1608	Doors & Windows	48.24		Providing & fixing of <b>Casement fixed window</b> of approved make with DGU. The extruded aluminium sections of Alloy 6063 tolerances confirming to DIN standard from approved raw material V2 / V4 as directed by Engineer in charge.	As directed by Engineer in charge	Square Metre	17450	0

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1609	Plumbing	48.25		Providing and fixing <b>sink cock with regular swinging spout</b> (Wall Mounted Model) with wall flange with approved make including other necessary fitting, etc. complete as directed by Engineer in charge.	As directed by Engineer in charge	Number	1924	37
1610	Plumbing	48.26		Providing and fixing <b>sink cock with regular swinging spout</b> (Wall Mounted Model) with wall flange with approved make including other necessary fitting, etc complete as directed by Engineer in charge.	As directed by Engineer in charge	Number	1594	37
1611	Plumbing	48.27		Providing and fixing <b>C.P. 2 Way BIB cock with wall flange</b> of approved make including necessary sockets/ union nut etc. complete as directed by Engineer in charge.	As directed by Engineer in charge	Number	1729	37
1612	Plumbing	48.28		Providing and fixing <b>C.P. BIB cock with wall flange</b> of approved make including necessary sockets/ union nut etc. complete as directed by Engineer in charge.	As directed by Engineer in charge	Number	1319	37
1613	Plumbing	48.29		Providing and fixing <b>Hand shower (health faucet) with 8mm dia. 1m long flexible tube</b> having wall hook with approved make including necessary sockets/ union nut etc. complete as directed by Engineer in charge.	As directed by Engineer in charge	Number	1642	37
1614	Plumbing	48.3		Providing and fixing <b>white european type wall-hung, of size 360mm x 360mm x 575mm with flush valve</b> of approved make including soil pipe, vent pipe upto outside face of wall, 100mm dia C.I. plug bend inlet pipe all fittings, cutting & making good walls, floors etc as directed by Engineer in charge.	As directed by Engineer in charge	Number	17471	624
1615	Plumbing	48.31		Providing and fixing <b>white glazed urinal of series with Pressmatic auto closing valve of having 32mm diameter P.V.C. flush pipe</b> with fitting and flushing of approved make and arrangement including lead soil pipe, lead trap & soil pipe connection upto the outside face of wall etc. complete as directed by Engineer in charge.	As directed by Engineer in charge	Number	9987	624
1616	Plumbing	48.32		Providing and fixing <b>wall hung white wash basin of size 350x450x165mm</b> with approved make pillar cock, C.P. Angular stop cock long thread approved make continental including SS bottle trap of approved make having necessary pipe connection up to the outside face of the wall etc complete as directed by Engineer in charge.	As directed by Engineer in charge	Number	5116	624

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1617	Plumbing	48.33		Providing and fixing <b>Shower Head with shower arm</b> of approved make shower tube hand shower with divertor of spout including all necessary pipe fittings and connections etc. complete as directed by Engineer in charge.	As directed by Engineer in charge	Number	16060	624
1618	Plumbing	48.34		Providing and fixing <b>Shower Head, with shower arm</b> of approved make mixer of including all necessary pipe fittings and connections etc. complete as directed by Engineer in charge.	As directed by Engineer in charge	Number	6284	624
1619	Plumbing	48.35		Providing and fixing <b>Oval Type Under Counter Wash Hand Basin of 420 x 590 x 195mm size</b> with pillar cock, C.P.Angular stop cock, long thread of approved make continental including SS bottle trap of necessary pipe connection up to the outside face of the wall, having Telephonic Black / Colour Granite of 180 mm thick fixed on Black Kadappa Framework, etc. Complete as directed by Engineer in charge.	As directed by Engineer in charge	Number	17800	624
1620	Plumbing	48.36		Providing and fixing <b>Table top white wash basin of size 120x635x405mm</b> rubber plugs and brass chain, with pillar cock, C.P.Angular stop cock long thread, continental including S.S. bottle trap of approved make having necessary pipe connection up to the outside face of the wall.etc complete as directed by Engineer in charge.	As directed by Engineer in charge	Number	22268	624
1621	Plumbing	48.37		Providing and fixing <b>white Opal series European type wall-hung, of size 400mmx370mmx575mm</b> with approved make flush valve including soil pipe, vent pipe upto outside face of wall, 100mm dia C.I. plug bend inlet pipe all fittings, cutting & making good walls, floors etc as directed by Engineer in charge.	As directed by Engineer in charge	Number	17574	624
1622	Plumbing	48.38		Providing and fixing <b>Orissa Pan of size 580x445x260 mm</b> with approved make flush valve including trap, C.I. soil and vent pipe upto outside face of wall including 100mm dia. C.I. plug, bend and necessary pipe connection, etc complete. As directed by Engineer in charge.	As directed by Engineer in charge	Number	6294	624
1623	Plumbing	48.39		Providing and fixing <b>C.P. a 2-Way BIB cock</b> with wall flange of approved make including necessary sockets/ union nut etc. complete as directed by Engineer in charge.	As directed by Engineer in charge	Number	2364	223

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1624	Plumbing	48.4		Providing and fixing <b>white wash basin with half pedestal of size 515mmX615mmX460mm</b> including pillar cock auto-closing system CP angular stop cock long thread of approved make continental including S.S. bottle trap of necessary pipe connection upto the outside face of the wall.	As directed by Engineer in charge	Number	11565	0
1625	Plumbing	48.41		Providing and fixing <b>white european type wall-hung pan, of size 350mm x 355mm x 570 mm</b> concealed flush tank with floor-mounting frame installing kit and drain pipe connection set for wall hung WC, with approved make square control plates including soil pipe, vent pipe upto the outside face of wall, 100mm dia C.I. plug bend inlet pipe all fittings, cutting & making good walls, floors etc. complete.	As directed by Engineer in charge	Number	30447	0
1626	Plumbing	48.42		Providing and fixing <b>Orissa type white glazed earthenware water closet pan of size 260mm x 440mm x 580mm</b> with approved make Slim wall hung cistern with installation kit including S or P trap with cast iron soil and vent pipe upto outside face of the wall 1:2:4 brick bat lime concrete bedding without flushing tank and its accessories etc. complete.	As directed by Engineer in charge	Number	3358	0
1627	Plumbing	48.43		Providing and fixing <b>white glazed urinal of size 710x460x300mm with sensotronic concealed type flushing valve</b> for urinal with complete kit having fittings, inlet pipe with stop tap, brackets for fixing the cistern, 32mm diameter P.V.C. flush pipe with fitting and flushing arrangement including lead soil pipe, lead trap & soil pipe connection upto the outside face of wall etc complete.	As directed by Engineer in charge	Number	14523	0
1628	Plumbing	48.44		Providing and fixing of approved make <b>white aquafree Waterless Urinal</b> of with cartridge size of 31.5x33x60cm including other necessary fittings etc. complete.	As directed by Engineer in charge	Number	17998	624
1629	Plumbing	48.45		Providing and fixing <b>wall-hung white wash basin of size 470x575x190mm</b> of approved make half pedestal, pillar cock, C.P. Angular stop cock, long thread continental including S.S. bottle trap of having necessary pipe connections up to the outside face of the wall. etc complete.	As directed by Engineer in charge	Number	8806	624

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1630	Rain water harvesting	48.46		RWH - Shallow Percolation Pit providing, constructing <b>2.0m deep shallow depth percolation pit</b> comprising of 1.0m dia pre-cast RCC rings, 300mm thick side filling around outside of RCC rings (annular space) with 40mm size boulders including filling of percolation pit up to 0.5m depth (from bottom up) with 25-75mm clean washed gravels followed by 0.5m depth of 10-25mm of clean washed stones followed by 0.5m of washed river fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) including netlon mesh between each gravel/fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) media layer including covering with RCC slab, manhole frame & cover, PVC rungs etc. including arrangement for inlet & outlet pipe, excavation & backfilling as shown in the drawing. The rate shall be inclusive of all labour, material, wastage, scaffolding, transportation, taxes, including all leads, lifts at all levels. All material should be of approved make. All works complete as per the drawing, technical specification and direction of the Engineer in charge	As directed by Engineer in charge	Number	51500	0
1631	Rain water harvesting	48.47		<b>RWH - Recharge Pit</b> Providing and constructing <b>recharge pit of 2.0m deep and 1.0m dia of pre-cast RCC rings with 6.5" dia x 25m deep borewell</b> at the floor of recharge pit including installation of combination of solid/perforated PVC casing pipe wrapped around with netlon mesh including 300mm thick sidefilling around outside of RCC rings (annular space) with 40mm size boulders including filling of recharge pit up to 0.5m depth with 25-75mm clean washed gravels from bottom up followed by 0.5m depth of 10-25mm of clean washed stones followed by 0.5m of washed river fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) including netlon mesh between each gravel/fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) media layer including covering with RCC slab, manhole frame & cover, PVC rungs, PVC end-caps, fittings etc. including arrangement for inlet & outlet pipe excavation & backfilling as shown in the drawing. The rate shall be inclusive of all labour, material, wastage, scaffolding, transportation, taxes, including all leads, lifts at all levels. All material should be of approved make. All works complete as per the drawing, technical specification and direction of the Engineer in charge.	As directed by Engineer in charge	Number	91300	0

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1632	Rain water harvesting	48.48		<b>Boring/drilling bore well of 300mm dia for casing/ strainer pipe</b> , by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machinery required for the job, all complete as per direction of Engineer in charge, upto 90m depth below ground level.	As directed by Engineer in charge	Running metre	412	89
1633	Rain water harvesting	48.49		Supplying, assembling, lowering and fixing in vertical position in <b>bore well, unplasticized PVC medium well-casing pipe of 150mm dia</b> , conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per the direction of Engineer in charge.	As directed by Engineer in charge	Running metre	468	17
1634	Rain water harvesting	48.50		Supplying, assembling, lowering and fixing in vertical position in <b>bore well, unplasticized PVC medium well screen pipes with ribs of 100mm dia</b> , conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per the direction of Engineer in charge.	As directed by Engineer in charge	Number	324	6
1635	Rain water harvesting	48.51		Supplying, filling, spreading & leveling <b>stone boulders of size range 5cm to 20cm in recharge pit</b> , in the required thickness, for all leads & lifts, all complete as per the direction of Engineer-in-charge.	As directed by Engineer in charge	Cubic Metre	688	149
1636	Rain water harvesting	48.52		Supplying, filling, spreading & leveling <b>gravels of size range 5mm to 10mm, in the recharge pit</b> , over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-incharge.	As directed by Engineer in charge	Cubic Metre	1117	149
1637	Rain water harvesting	48.53		Supplying, filling, spreading & leveling <b>coarse fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) of size range 1.5mm to 2mm in recharge pit</b> , in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer in charge.	As directed by Engineer in charge	Cubic Metre	993	146
1638	Rain water harvesting	48.54		<b>Gravel packing in tubewell construction</b> in accordance with IS:4097, including providing gravel: fine/ medium/ coarse, in required grading & sizes as per the actual requirement, all complete as per direction of Engineer in charge.	As directed by Engineer in charge	Cubic Metre	1147	178

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1639	Others	48.55		Providing and Fixing <b>Sun Louvre panels roll formed, 0.6mm thick</b> , pre-painted stove enameled aluminium strip of a corrosion resistant alloy, including necessary fitting etc. complete, as directed by Engineer in Charge.	As directed by Engineer in charge	Square Metre	7091	0
1640	Others	48.56		Providing & fixing <b>heat insulation</b> by wrapping the pipes with glass wool/asbestos fibre rope or <b>tape/videoflex 32 mm</b> as directed by Engineer in charge.	As directed by Engineer in charge	Running metre	220	0
1641	Others	48.57		Providing & fixing <b>heat insulation</b> by wrapping the pipes with glass wool/asbestos fibre rope or <b>tape/videoflex 25 mm</b> as directed by Engineer in charge.	As directed by Engineer in charge	Running metre	169	0
1642	Others	48.58		Providing & fixing <b>heat insulation</b> by wrapping the pipes with glass wool/asbestos fibre rope or <b>tape/videoflex 15 mm</b> as directed by Engineer in charge.	As directed by Engineer in charge	Running metre	136	0
1643	Others	48.59		CoolMortar - Providing & fixing <b>40mm thick CoolMortar</b> for insulation which has proportioned blend of white cement, well-graded fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) and selected assortment of fine metal and mineral stabilizers to provide a heat barrier including filling joints, curing and cleaning complete. The rate shall be inclusive of all labour, material, scaffolding, transportation, taxes, including all leads, lifts at all levels and shall be as directed by Engineer in charge.	As directed by Engineer in charge	Square Metre	3222	0



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1644	Others	48.60		<b>Bamboowood 10mm thick Wall Cladding</b> including Threshold & T-mold - Providing & fixing in position <b>Phenol bonded Bamboowood wall cladding at all height with planks of sizes 10mm thick, 1900mm length (minimum) and 135mm wide</b> approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building materials & Technology Promotion Council (BMTPC). with necessary profiled edges fixed with BR nails to frame work made of second class teak wood of size 50 x 50mm in centre and ends of each tile. The bamboowood cladding shall be laid over teak wood frame and hold in place by 50mm thick teak wood placed in centre of two teak wood and backlayment and covered with 1.00mm thick expanded poly ethylene foam of density 25kg/cum in two layers first layer on wall surface before fixing wooden frame and second layer on frame under cladding. The Bamboowood planks shall have minimum density of 1000 kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of Engineer in-charge.	As directed by Engineer in charge	Square Metre	6820	975

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1645	Others	48.61		<p><b>Bamboowood 10mm thick Wall Cladding</b> including Threshold &amp; T-mold for Accoustic purpose Providing &amp; fixing in position <b>Phenol bonded Bamboowood wall cladding at all height with planks of sizes 10mm thick, 1900mm length (minimum) and 135mm wide</b> approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials &amp; Technology Promotion Council (BMTPC) with necessary profiled edges fixed with BR nails to frame work made of second class teak wood of size 50 x 50 mm in centre and ends of each tile. The bamboowood cladding shall be laid over glass wool of 50mm thickness filled in between two teak wood frame and hold in place by 50mm thick teak wood placed centre of two teak wood and covered with mesh (rabbit) fixed to teak woodframe work with wire nails as backlayment and covered with 1.00mm thick expanded poly ethylene foam of density 25kg/cum in two layers first layer on wall surface before fixing wooden frame and second layer on frame under cladding. The Bamboowood planks shall have minimum density of 1000 kg/cum &amp; minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of Engineer in-charge.</p>	As directed by Engineer in charge	Square Metre	6344	300

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				<b>SSR 2019-20 : Coastal</b>				
1646	Coastal	49.01		Supplying and spreading <b>geofabric filter layer of Geotextile of Polypropylene multifilament woven</b> to the line, level and grade with pore size less than 0.075 mm and permeability greater than 9.0 litre/sqm/second confirming specification IS:1969 and ASTM standard including conveying to the site, joining and stitching with proper overlap and laying at excavated surface in tidal condition as directed by Engineer- in- Charge etc. complete.	As directed by Engineer in charge	Square Metre	71	9
	Coastal	49.02		Providing and laying <b>filter layer of polythene bags, filled with a/b/c</b> including conveying and placing in proper line, level as per drawing in tidal condition as directed by Engineer - in- Charge.	As directed by Engineer in charge			
1647		a		sand obtained from excavation of foundation		Cubic Metre	312	122
1648		b		50% Sand obtained from excavation + 50% crushed sand		Cubic Metre	692	146
1649		c		crushed sand (upto 5 mm) brought by Contractor		Cubic Metre	1113	212
1650	Coastal	49.03	Rd - 19; Rd - 29; Rd - 27.	Supplying and laying <b>trap stones upto 20 kilogram for Filter / Core layer</b> including conveying with all the leads, lifts, laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	Spec.No.-Rd-19, Page-187; Rd-29, Page-193; Rd-27, Page-192. [Except weight of stone specified in wording of specification]	Cubic Metre	621	60
1651	Coastal	49.04	Rd - 19; Rd - 29; Rd - 27.	Supplying and laying <b>laterite stones upto 20 kilogram for Filter / Core layer</b> including conveying with all the leads, lifts, laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	Spec.No.-Rd-19, Page-187; Rd-29, Page-193; Rd-27, Page-192. [Except weight of stone specified in wording of specification]	Cubic Metre	475	60

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1652	Coastal	49.05	Rd - 19; Rd - 29; Rd - 27.	Supplying and laying <b>trap stone weighing 20 to 50 kilogram for Core / Sub armour layer</b> including conveying with all the leads, lifts, laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	Spec.No.-Rd-19, Page-187; Rd-29, Page-193; Rd-27, Page-192. [Except weight of stone specified in wording of specification]	Cubic Metre	629	60
1653	Coastal	49.06	Rd - 19; Rd - 29; Rd - 27.	Supplying and laying <b>laterite stone weighing 20 to 50 kilogram for Core / Sub armour layer</b> including conveying with all the leads, lifts, laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	Spec.No.-Rd-19, Page-187; Rd-29, Page-193; Rd-27, Page-192. [Except weight of stone specified in wording of specification]	Cubic Metre	483	60
1654	Coastal	49.07		Laying of <b>trap / laterite stones by rearrangement of stones displaced from existing protection</b> bund weighing upto 50 kilogram for Core / Sub armour layer including collection, sorting and relaying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	as directed by Engineer in charge	Cubic Metre	104	60
1655	Coastal	49.08	Rd - 19; Rd - 29; Rd - 27.	Supplying and laying <b>trap stone weighing 50 to 100 kilogram for Core / Sub armour / Armour layer</b> including conveying with all the leads, lifts, laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	Spec.No.-Rd-19, Page-187; Rd-29, Page-193; Rd-27, Page-192. [Except weight of stone specified in wording of specification]	Cubic Metre	665	60

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1656	Coastal	49.09	Rd - 19; Rd - 29; Rd - 27.	Supplying and laying <b>laterite stone weighing 50 to 100 kilogram for Core / Sub armour / Armour layer</b> including conveying with all the leads, lifts, laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	Spec.No.-Rd-19, Page-187; Rd-29, Page-193; Rd-27, Page-192. [Except weight of stone specified in wording of specification]	Cubic Metre	519	60
1657	Coastal	49.10		Laying of <b>trap stones by rearrangement of stones displaced from existing protection bund weighing 50 to 100 kilogram</b> for Core / Sub armour / Armour layer including collection, sorting and laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	as directed by Engineer in charge	Cubic Metre	147	60
1658	Coastal	49.11	Rd - 19; Rd - 29; Rd - 27.	Providing and laying <b>trap stones weighing 100 to 200 kilogram for Core / Sub armour / Armour layer</b> including conveying with all the leads, lifts, laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	Spec.No.-Rd-19, Page-187; Rd-29, Page-193; Rd-27, Page-192. [Except weight of stone specified in wording of specification]	Cubic Metre	831	120
1659	Coastal	49.12		Laying of <b>trap stones by rearrangement of stones displaced from existing protection bund weighing 100 to 200 kilogram</b> Sub armour / Apron / Armour layer including collection, sorting and laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	as directed by Engineer in charge	Cubic Metre	295	120

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1660	Coastal	49.13	Rd - 19; Rd - 29; Rd - 27.	Providing and laying <b>trap stones weighing 200 to 300 kilogram for Apron / Armour layer</b> including conveying with all the leads, lifts, laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	Spec.No.-Rd-19, Page-187; Rd-29, Page-193; Rd-27, Page-192. [Except weight of stone specified in wording of specification]	Cubic Metre	914	120
1661	Coastal	49.14		Laying of <b>trap stones by rearrangement of stones displaced from existing protection</b> bund weighing <b>200 to 300 kilogram</b> for Apron / Armour layer including collection, sorting and laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	as directed by Engineer in charge	Cubic Metre	330	120
1662	Coastal	49.15	Rd - 19; Rd - 29; Rd - 27.	Providing and laying <b>trap stones weighing 300 to 500 kilogram for Sub armour / Apron / Armour layer</b> including conveying with all the leads, lifts, laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	Spec.No.-Rd-19, Page-187; Rd-29, Page-193; Rd-27, Page-192. [Except weight of stone specified in wording of specification]	Cubic Metre	980	120
1663	Coastal	49.16		Laying of <b>trap stones by rearrangement of stones displaced from existing protection</b> bund weighing <b>300 to 500 kilogram</b> for Sub armour / Apron / Armour layer including collection, sorting and laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	as directed by Engineer in charge	Cubic Metre	365	120

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1664	Coastal	49.17	Rd - 19; Rd - 29; Rd - 27.	Providing and laying <b>trap stones weighing 500 to 1000 kilogram for Apron / Armour layer</b> including conveying with all the leads, lifts, laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	Spec.No.-Rd-19, Page-187; Rd-29, Page-193; Rd-27, Page-192. [Except weight of stone specified in wording of specification]	Cubic Metre	1121	120
1665	Coastal	49.18		Laying of <b>trap stones by rearrangement of stones displaced from existing protection bund weighing 500 to 1000 kilogram</b> for Apron / Armour layer including collection, sorting and laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	as directed by Engineer in charge	Cubic Metre	400	120
1666	Coastal	49.19	Rd - 19; Rd - 29; Rd - 27.	Providing and laying <b>trap stones weighing above 1000 kilogram for Apron / Armour layer</b> including conveying with all the leads, lifts, laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	Spec.No.-Rd-19, Page-187; Rd-29, Page-193; Rd-27, Page-192. [Except weight of stone specified in wording of specification]	Cubic Metre	1069	120
1667	Coastal	49.20		Laying of <b>trap stones by rearrangement of stones displaced from existing protection bund weighing above 1000 kilogram</b> for Apron / Armour layer including collection, sorting and laying in required lines, level, slope as per drawing including necessary equipments and machinery as directed by etc. complete in tidal conditions.	as directed by Engineer in charge	Cubic Metre	435	120

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Coastal	49.21	Rd - 19; Rd - 29; Rd - 27.	Providing & fixing <b>G.I. wire Gabions</b> coated with Zinc+PVC of required size, section including boxes made of mechanically woven hexagonal shaped wire mesh of type, 10x12cm. edges mechanically selvedged made of heavily (Zinc+ PVC) coated G.I. wires as per BS: 443, mesh wire 3.00 mm Ø edge wire 3.9 mm Ø and filled with 20 to 50 kilogram weight trap stones including conveying with all the leads & lifts and placing at required places in required line, level, slope as per drawing, section as directed etc. complete under tidal conditions.	Spec.No.-Rd-19, Page-187; Rd-29, Page-193; Rd-27, Page-192. [Except weight of stone specified in wording of specification]			
1668		a		(a) Gabions of size – 1.00 x 1.00 x 1.00 M		Cubic Metre	2427	308
1669		b		(b) Gabions of size – 1.50 x 1.00 x 1.00 M		Cubic Metre	2111	287
1670		c		(c) Gabions of size – 2.00 x 1.00 x 1.00 M		Cubic Metre	2151	262
1671		d		(d) Gabions of size – 3.00 x 1.00 x 1.00 M		Cubic Metre	2020	215
1672		e		(e) Gabions of size – 4.00 x 1.00 x 1.00 M		Cubic Metre	1906	161
	Coastal	49.22	Rd - 19; Rd - 29; Rd - 27.	Providing and laying <b>box type flexible gabions</b> of required size and rope of 10 mm Ø polypropylene material four strand mesh of 150 mm x 150 mm size, filled with hand packed stones of 20 to 50 kilogram in weight; so as to give total mass required with all leads and lifts including fusing top of gabions, tying to each other and laying to required line, level, slope as per drawing, section as directed etc. complete under tidal conditions.	Spec.No.-Rd-19, Page-187; Rd-29, Page-193; Rd-27, Page-192. [Except weight of stone specified in wording of specification]			
1673		a		(a) Gabions of size – 1.00 x 1.00 x 1.00 M		Cubic Metre	2122	308
1674		b		(b) Gabions of size – 1.50 x 1.00 x 1.00 M		Cubic Metre	1961	287
1675		c		(c) Gabions of size – 2.00 x 1.00 x 0.50 M		Cubic Metre	1557	262
1676		d		(d) Gabions of size – 3.00 x 1.00 x 1.00 M		Cubic Metre	1758	215
1677	Coastal	49.23	Bd.E.5	Providing and laying <b>precast tetrapods / blocks of plain cement concrete of M-30 grade, weighing 2000 kilogram</b> each of required shape for armour layer including necessary steel formwork/mould including applying form releasing agent including vibration, curing, conveying and placing them in correct profile as per drawing including all labours, materials, equipments, machinery such as crane of adequate capacity and boom length, with all lead and lift etc. complete in tidal conditions.	Spec. No.Bd. E. 5; Page No. 67 / 2012	Number	8002	1429



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1678	Coastal	49.24	Bd.E.5	Providing and laying <b>precast tetrapods / blocks of plain cement concrete of M-30 grade, weighing 3000 kilogram</b> each of required shape for armour layer including necessary steel formwork/mould including applying form releasing agent including vibration, curing conveying and placing them in correct profile as per drawing including all labours, materials, equipments, machinery such as crane of adequate capacity and boom length, with all lead and lift etc. complete in tidal conditions.	Spec. No.Bd. E. 5; Page No. 67 / 2012	Number	10768	2013
1679	Coastal	49.25	25	Relaying of <b>precast concrete tetrapods / blocks, weighing upto 4000 kilogram</b> each of required shape for armour layer including removing from existing protection bund and relaying in correct profile as per drawing including all labours, materials, equipments, machinery such as crane of adequate capacity and boom length, with all lead and lift etc. complete in tidal conditions.	As directed by Engineer -in- Charge	Number	2331	240
1680	Coastal	49.26	Bd.E.5	Providing and laying in situ <b>M-20</b> cement concrete of trap / granite / quartzite / gneiss metal <b>with 15% plum of trap stones for foundation and bedding of retaining walls and jetty</b> etc. including necessary formwork, compacting, curing, bailing out water manually in tidal range etc. complete.	Spec. No.Bd. E. 5; Page No. 67 / 2012	Cubic Metre	4855	1345
1681	Coastal	49.27	Bd.E.5	Providing and laying in situ <b>M-25</b> cement concrete of trap / granite / quartzite / gneiss metal <b>with 15% plum of trap stones for retaining walls and jetty</b> etc. including necessary formwork, compacting, curing, bailing out water manually in tidal range etc. complete.	Spec. No.Bd. E. 5; Page No. 67 / 2012	Cubic Metre	5109	1345
1682	Coastal	49.28	28	Providing and fixing <b>stainless steel bollard of steel pipe</b> 1.00 metre long of 250 mm inner diameter and circular top plate of 350 mm diameter with 5 mm thickness on deck of jetty in cement concrete including necessary fixtures and fastening etc. complete. (Stainless steel of grade S-304)	As directed by Engineer -in- Charge	Number	20408	1221
1683	Coastal	49.29	29	Providing and fixing <b>stainless steel mooring ring</b> in cement concrete on deck of jetty consist of 32 mm thick steel bar, 225 mm inner diameter, steel ring with 75 mm inner diameter steel hook of 32 mm diameter as per approved drawing etc. complete. (Stainless steel of grade S-304)	As directed by Engineer -in- Charge	Number	9775	244

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1684	Coastal	49.30	30	Providing and fixing <b>fenders made from used tyres</b> including fixing by stainless steel chain links of 8mm dia. and anchor bolts of 16 mm diameter etc. complete as per drawing and as directed under tidal range.	As directed by Engineer -in-Charge	Number	2198	755
1685	Coastal	49.31	31	Supplying and laying <b>100% PP Staple fibre Non woven Geobags</b> filled with locally available sand (initial Lead of 50m) having minimum mass of 400 GSM and Tensile strength of 22/24 KN/M in MD/CD and elongation of 60/60 %. The specified Geotextile (Bags) shall have puncture resistance of 4100 N and abrasion resistance of greater than 75% of strength & thickness, to be laid as per drawing in required line, level, slope as per drawing, section in tidal condition as directed by Engineer - in - Charge. (Size of Bag 1.00 x 0.70m with inflated thickness of 10cm at Centre weight of each filled bag shall be in between <b>130 to 150 kilogram</b> )	As directed by Engineer -in-Charge	Number	255	32
1686	Coastal	49.32	32	Supplying and laying <b>100% PP Staple fibre Non woven Geo bags</b> filled with locally available sand (initial Lead of 50m) having minimum mass of 400 GSM and Tensile strength of 22/24 KN/M in MD/CD and elongation of 60/60 %. The specified Geotextile (Bags) shall have puncture resistance of 4100 N and abrasion resistance of greater than 75% of strength & thickness, to be laid as per drawing in required line, level, slope as per drawing, section in tidal condition as directed by Engineer - in - Charge. (Size of Bag 2.00 x 1.50m with inflated thickness of 40cm at Centre weight of each filled bag shall be in between <b>550 to 600 kilogram</b> )	As directed by Engineer -in-Charge	Number	1457	118

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Coastal	49.33	33	Providing laying and placing in position <b>segment of a/b/c diameter UV Resistance Geotextile tubes</b> as per design and drawing of High strength woven Geotextile made from polypropylene multifilament woven in both warf and weft directions, with cover of UV protective pp tape woven Geotextile with pore size less than 0.075 millimetre and permeability greater than 9.00 litre/square metre/second conforming specification IS:1969 and ASTM standards placed parallel to high water line and duly filled with sea sand mechanically by sand dredging machine so as to act as main burnt and toe burm at offshore to hold accumulated sand on beach including all labour, plant, equipment and machinery required including shuttering and scaffolding as directed by Engineer-in-Charge of the work etc. complete.	As directed by Engineer -in-Charge			
1687		a		(a) Geotextile tubes of diametre – 3.00 M		Running metre	9989	436
1688		b		(b) Geotextile tubes of diametre – 1.50 M		Running metre	5635	218

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				<b>SSR 2018-19 Additional New Items</b>				
1689	Waterproofing Treatment	50.01		<b>Waterproofing Treatment to existing Terrace</b> by using Polymeric cementitious membrane of approved make & approved by Engineer in charge by replacing the existing waterproofing treatment. Break open the existing I.P.S. and brick bat coba of the terrace slab to expose the bare slab. (If there are cracks on the bare slab open the crack in V Groove and fill it with P.M.M. and if there are lots of honeycombs and identified bad patches of concrete the same should be grouted by grouting procedures). Clean the entire surface thoroughly and over this prepared surface, apply three coats of polymeric waterproofing coating having a breathable non toxic acrylic polymer liquid of approved make & approved by Engineer in charge, over this waterproofing treatment, provide and lay brick bat coba of average 112 mm thickness.	As directed by Engineer in charge	Square metre	1981	1018
1690	Waterproofing Treatment	50.02		<b>Waterproofing Treatment to existing Toilet and bathrooms</b> by using Polymeric cementitious membrane of approved make & approved by Engineer in charge and replacing the existing waterproofing treatment. Break open the existing I.P.S. and brick bat coba of the toilet and bathroom areas to expose the bare slab. (If there are cracks on the bare slab open the crack in V Groove and fill it with P.M.M. and if there are lots of honeycombs and identified bad patches of concrete the same should be grouted by grouting procedures). Clean the entire surface thoroughly and over this prepared surface, apply three coats of polymeric waterproofing coating having a breathable non toxic acrylic polymer liquid of approved make & approved by Engineer in charge over this waterproofing treatment, provide and lay brick bat coba of average 112 mm thickness.	As directed by Engineer in charge	Square metre	1981	1018

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1691	Waterproofing Treatment	50.03		Clean the <b>deck surface of the bridge</b> of all loose particles, dust, cement laitance etc. preferably done by using machine like device. Inspect for cracks/construction joints. <b>Fill the cracks</b> by Flexiroof PU of approved make & approved by Engineer in charge (This coating is to be protected by providing IPS on top of it). Provide and apply a primer coat of Flexiroof PU Primer of approved make & approved by Engineer in charge on the cleaned RCC deck surface using a soft paint brush. Shake the container well and directly apply the primer by brush. Allow it to set for 30 - 45 mins. Provide and apply Flexiroof PU of approved make & approved by Engineer in charge by brush, roller or airless spray equipment. Apply at a rate of 1 kg/sqm for the first coat evenly over the primer surface and allow to set for 12 hours. After ensuring that the first coat is set and cured, apply the second coat in similar manner at a rate of 0.5 kg/sqm and allow to set. While the second coat is has reasonably hardened but still wet and tacky on surface, sprinkle sand over the surface to make it rough so as to provide mechanical key for the protective screed/I.P.S. Ensure that the sand does not gets embedded in the second coat and remains on the surface. Allow the two coats of Flexiroof PU of approved make & approved by Engineer in charge to air cure for 4-5 days before proceeding with the protective screed. This should be followed by application of compatible I.P.S. of 25 MM thick waterproof bedding of I.P.S.	As directed by Engineer in charge	Square metre	2134	450

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				<p>The liquid membrane should have a track record of atleast 4 years in India &amp; Gulf region and have atleast an 4 year track record in PWD.</p> <p>Single Component, Liquid Applied, Polyurethane Membrane should have following minimum properties:</p> <ol style="list-style-type: none"> <li>1. Water permeability (DIN 1048): Nil as per DIN 1048 @ 7 bar of hydrostatic pressure.</li> <li>2. Moisture permeability: &lt; 0.4 g/m<sup>2</sup>/day</li> <li>3. Accelerated Weathering (IS 101): 2000 hrs No cracking or blister formation.</li> <li>4. Adhesion to concrete (ASTM D 1000): &gt;21 Kg/cm<sup>2</sup> (Concrete Fails)</li> <li>5. Tensile Strength: &gt; 2.0 MPa (ASTM D412)</li> <li>6. Should not be water soluble or water dilutable</li> <li>7. Shore A Hardness: 40 ± 5 (ASTM D2240)</li> <li>8. Elongation at Break: &gt; 900 % (ASTM D412)</li> <li>9. Solids: &gt; 95 %</li> <li>10. No micro-bubble formation or blistering should take place during the curing of thick films.</li> </ol> <p>It shall be applied as per manufacturers specification.</p>				

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1692	Waterproofing Treatment	50.04		Clean the <b>R.C.C. roof slab surface</b> of all loose particles, dust, cement laitance etc. preferably done by using machine like device. Inspect for cracks/construction joints. <b>Fill the cracks</b> by Flexiroof PU of approved make & approved by Engineer in charge (This coating is to be protected by providing I.P.S. on top of it). Provide and apply a primer coat of Flexiroof PU Primer of approved make & approved by Engineer in charge on the cleaned RCC deck surface using a soft paint brush. Shake the container well and directly apply the primer by brush. Allow it to set for 30 - 45 mins. Provide and apply Flexiroof PU of approved make & approved by Engineer in charge by brush, roller or airless spray equipment. Apply at a rate of 1 kg/sqm for the first coat evenly over the primer surface and allow to set for 12 hours. After ensuring that the first coat is set and cured, apply the second coat in similar manner at a rate of 0.5 kg/sqm and allow to set. While the second coat is has reasonably hardened but still wet and tacky on surface, sprinkle sand over the surface to make it rough so as to provide mechanical key for the protective screed/IPS. Ensure that the sand does not gets embedded in the second coat and remains on the surface. Allow the two coats of Flexiroof PU of approved make & approved by Engineer in charge to air cure for 4-5 days before proceeding with the protective screed. This should be followed by application of compatible IPS of 25 MM thick waterproof bedding.	As directed by Engineer in charge	Square Metre	2135	450

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				<p>The liquid membrane should have a track record of atleast 4 years in India &amp; Gulf region and have atleast an 4 year track record in PWD. Single Component, Liquid Applied, Polyurethane Membrane should have following minimum properties:</p> <ol style="list-style-type: none"> <li>1. Water permeability (DIN 1048): Nil as per DIN 1048 @ 7 bar of hydrostatic pressure.</li> <li>2. Moisture permeability: &lt; 0.4 g/m<sup>2</sup>/day</li> <li>3. Accelerated Weathering (IS 101): 2000 hrs No cracking or blister formation.</li> <li>4. Adhesion to concrete (ASTM D 1000): &gt;21 Kg/cm<sup>2</sup> (Concrete Fails)</li> <li>5. Tensile Strength: &gt; 2.0 MPa (ASTM D412)</li> <li>6. Should not be water soluble or water dilutable</li> <li>7. Shore A Hardness: 40 ± 5 (ASTM D2240)</li> <li>8. Elongation at Break: &gt; 900 % (ASTM D412)</li> <li>9. Solids: &gt; 95 %</li> <li>10. No micro-bubble formation or blistering should take place during the curing of thick films.</li> </ol> <p>It shall be applied as per manufacturers specification.</p>				



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1693	Waterproofing Treatment	50.05		<p>Clean the <b>RCC roof slab surface</b> of all loose particles, dust, cement laitance etc. preferably done using machine like device. Inspect for cracks /construction joints. <b>Fill the cracks</b> by Elastorof PU of approved make &amp; approved by Engineer in charge. Provide and apply a primer coat of Sunprime PU primer of sunanda or equivalent or approved by Engineer in charge on the cleaned RCC slab surface using a soft paint brush. Shake the container well and directly apply the primer by brush. Allow to set for 30 - 45 mins depending on the ambient temperature. After the primer has totally cured and dried, apply Elastorof PU of approved make &amp; approved by Engineer in charge by brush, roller or airless spray equipment. Apply at a rate of 1 kg/sqm for the first coat evenly over the primer surface and allow to set for 12 hours. After ensuring that the first coat is set and cured, apply the second coat in similar manner at a rate of 0.5 kg/sqm and allow to set. While the second coat is has reasonably hardened but still wet and tacky on surface, sprinkle sand over the surface to make it rough so as to provide mechanical key for the protective screed/I.P.S. of 25 MM thick waterproof bedding. Ensure that the sand does not gets embedded in the second coat and remains on the surface. Allow the two coats of Elastorof PU of approved make &amp; approved by Engineer in charge to air cure for 4-5 days before proceeding with the protective screed.</p>	As directed by Engineer in charge	Square Metre	1440	450
				<p>Single Component, Liquid Applied, Polyurethane Membrane should have following minimum properties:</p> <ol style="list-style-type: none"> <li>1. Specific gravity: 1.30 ± 0.1</li> <li>2. Elongation %: &gt;600</li> <li>3. Tack free time: 24-48 hrs</li> <li>4. Tensile strength N/mm<sup>2</sup>: 2.1</li> <li>5. Shore hardness: 40 ± 5</li> </ol> <p>It shall be applied as per manufacturers specification. ☒</p>				

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1694	Protective coating and DPR	50.06		Providing and applying two coats of <b>protective membrane over the cured concrete surface like R.C.C. footings, columns, plinth beams</b> etc. which will be submerged under soil so as to protect the same. Apply two pack coal tar epoxy system of Sunepoxy Coal tar of approved make & approved by Engineer in charge, having solid content ranges from 80-100%, Tack free time 4-6 hrs. Recoat after 16-24 hrs. Mix Part A and Part B of Sunepoxy Coal tar of approved make & approved by Engineer in charge in 1:1 ratio with slow speed stirrer and apply the same on a clean R.C.C. surface by brush. Allow to set for 8-10 hours and apply the second coat. The rate to include for application at all levels to various RCC elements to the satisfaction of the EIC etc. complete.	As directed by Engineer in charge	Square Metre	247	120
1695	Corrosion Inhibiting Admixture	50.07		Providing & Supplying <b>corrosion inhibiting admixture in concrete to protect steel bars for all concrete</b> in every part Polyalk CP 293 of approved make & approved by Engineer in charge migrating, non-nitrite based corrosion inhibiting admixture shall be added at a dose of 3 kgs per cum of concrete. The admixture should protect both cathodic and anodic sites and have been accredited by Indian Roads Congress, recommended for use by Ministry of Road Transport & Highways and should have a 4 year track record of use in both the Gulf Region and India. Admixture should have evaluated test reports demonstrating a corrosion rate of zero coulombs after 9 test cycles as per ASTM G 109 when tested from a research institution NBA accredited Grade A and internationally ranked among top 5 research institutions in the world in Annual Survey conducted by Georgia Institute of Technology ranking of research institutions. PH of admixture should be alkaline in nature, specific gravity of 0.99 – 1.1, colour : brownish. The contractor must intimate the engineer in charge prior to addition in concrete for recording. If the admixture is put in the concrete mix at the batching plant, a written record of the amount of admixture used shall be supplied to the engineer. The engineer must ensure that the specified dosage of admixture is added in the concrete mix. (Material Cost Analysis only)	As directed by Engineer in charge	Kilogram	210	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1696	Waterproofing admixture	50.08		Providing and mixing <b>shrinkage compensating admixture cum plasticizer</b> – Sunplex 330 gms pouch of approved make & approved by Engineer in charge, adding per 50 Kg bag of cement in sand faced cement plaster to internal/external surfaces in finished in proper line and level. Add Sunplex in dry machine mix before addition of gauging water. (Material Cost Analysis only)	As directed by Engineer in charge	Pouch	42	---
1697	Bonding agent	50.09		Providing and applying one pack <b>bonding coat between concrete members</b> like RCC slabs, columns, beams, chajjas, pardis etc and cement mortar plaster using Hack Aid Plast of approved make & approved by Engineer in charge. Clean the concrete surface thoroughly to remove dust, dirt, grime, deshuttering oils and rub down to a clean surface. Apply Hack Aid Plast of approved make & approved by Engineer in charge by spray on the entire concrete surface. Provide a lean cement - sand dash coat over the same. Allow the dash coat to set for around 24 hours. Further plastering as per specifications can continue.	As directed by Engineer in charge	Square metre	54	33

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1698	Water proofing	50.10		<p><b>Clean the surface</b> to remove dirt, loose particles. Examine the surface closely for any cracks. Clean the cracks. Provide and fill a pure acrylic, polymer modified ready to use paste Polyfill AR of approved make &amp; approved by Engineer in charge having a cream coloured viscous emulsion ready to use acrylic polymeric non-shrink <b>crackfiller putty</b> with auto suction properties and requiring no bonding agent, no curing and no requirement for opening the existing cracks finishing with subsequent filling as required. Provide and apply three coats of 100% acrylic <b>waterproof heat insulating breathable decorative external coating</b> Sunext 8 of approved make &amp; approved by Engineer in charge, in the desired shade. Stir well and apply by brush for three coats. Applying three coats at an interval of 4-6 hours between each coat.</p> <p>High Performance 100% Acrylic, Waterproof, Anti-fungal, Anti-carbonation, Heat Insulating External Paint should have following minimum properties:</p> <ol style="list-style-type: none"> <li>1. Specific Gravity: <math>1.3 \pm 0.1</math> at 25°C</li> <li>2. pH: 7.0 to 10.00</li> <li>3. Viscosity: 18 to 30 sec. at 25°C by Ford Cup No. B-4 (Dilute 2 parts of product with 1 part of water)</li> <li>4. CO2 diffusion resistance co- efficient (DIN EN 1062-6 (2002-10): <math>7.59 \times 10^5</math></li> <li>5. CO2 diffusion equivalent air layer thickness (DIN EN 1062-6 (2002-10): 127m @ 190 microns DFT</li> <li>6. Adhesion (ASTM D 4541): 2.3 N/mm<sup>2</sup> (Concrete / Substrate Failure)</li> <li>7. Solar Reflectance Index (ASTM E 1980 11, EN 673:2011, EN</li> </ol>	As directed by Engineer in charge	Square metre	251	163

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Door and Windows	50.11	BD-T	Providing and fixing factory made door/Window frames of required colour made with wood Polymer composite (WPC) extruded internal ribbed sections conforming to American Society for testing and materials (ASTM) in regard with density, tensile strength, flexural strength, Izod impact, water absorption and screw withdrawal strength with wall thickness of 5mm (+/1mm) and with frames having mitred joints at each corner, joined together by two nos. of 10 x 8 mm & 40 mm long PVC dovetail keys including hard wood piece support along the full vertical and horizontal length in rebate portion hole for fixing hinges and fixtures and the frames fixed to Walls/columns with 15 mm long dash fasteners/holdfasts (dash fasteners/holdfasts to be paid separately) etc. complete as per the direction of Engineer in charge,with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge			
1699		a		1.1. For Profile size of 75 x 50 mm with 32 x 12 mm rebate		RMT	435.00	74.00
1700		b		1.2 For Profile size of 100 x 50 mm with 32 x 12 mm rebate		RMT	535.00	90.00
1701		c		1.3 For Profile size of 125 x 50 mm with 38 x 12 mm rebate		RMT	635.00	108.00
1702		d		1.4 For Profile size of 120 x 50 mm with 32 x 12 mm double rebate (Window Section)		RMT	650.00	110.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1703	Paving , Flooring and dado	50.12	BD-M	Supply & Fixing of Rectified Porcelain Stoneware Tiles for Ventilated Facades of Specified size as per specification/ site drawings having 6 mm and 9 mm thickness with factory made Kerfs (grooves) as per need and size 600/1200 and 800/1600. The Rectified Porcelain Stoneware Tiles shall possess properties having Water absorption < 0.5% Bending Strength > 40 N/mm <sup>2</sup> and are resistant to : UV Light, chemicals, smog, thermal shocks & bacteria. The facade will be made from Nexion Rectified Porcelain Stoneware Tiles (Sintered Compact Surfaces) specified as per ISO 13006 : Annex G- EN 14411 : Annex G : Dry Pressed Ceramic Tiles and all the tests carried out by Italian labs accredited according to ISO/ IEC 17025 : 2005. The Terramilano Fixing sub structure will confirm to Norme Tec niche per le Costruzioni NTC/8 (Technical Standard for construction) guidelines for construction in Italy, Eurocode 0 " Information on the method of semi-probabilistic limit states and safety factor " Euro coad 1 " Determination and calculation of actions on structure " Euro 9 " Project aluminum structures " UNI 11018 and ETAG 034 The Substructure will consists of Upright extruded aluminum profile TruSt80, alloy 6060 T5 thickness equal to 1.5 to 2 mm and dimension 80 x 110 mm, inter axis 80 cm of Length 3660 mm, 8085 Aluminum box Section of 1 x 3 inch,1x2inch and 1x 5 inch of length 3660 mm and thickness 1.5 to 2 mm as per need. Brackets St80 galvanized steel and aluminum of 80 mm x 60 mm, aluminum L bracket size 1.5 x 1.5 inch and 1 x 2.5 inch thickness 3 mm that allow to anchor the vertical stand to the Building, 9 mm/6mm S10 Hooks Harmonic Stainless Steel AISI 304 which supports the weight of the Tiles; Bossong/Hilti Mechanical Fasteners and Nylon Anchor Fastner; and Structural Sealant of 3M for	As directed by Engineer-in-charge	SQM	8693.50	1478.00
1704	Paving , Flooring and dado	50.13	BD-M	Supply & Fixing of Rock / Stone Finished outdoor vitrified flooring Tiles 20 mm thick and required width wide in plain pattern including Cement float, filling joints, with neat cement slurry, Natural sand, curing and cleaning complete. with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	SQM	2850.00	485.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1705	Paving , Flooring and dado	50.14	BD-M	Supply & Fixing of Rock / Stone Finished outdoor vitrified flooring Tiles 16 mm thick and required width wide in plain pattern including Cement float, filling joints, with neat cement slurry, Natural sand, curing and cleaning complete. with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	SQM	2650.00	450.00
1706	Paving , Flooring and dado	50.15	BD-M	Supply & Fixing of Rock / Stone Finished outdoor vitrified flooring Tiles 16 mm thick and required width wide in plain pattern including Cement float, filling joints, with neat cement slurry, Natural sand, curing and cleaning complete with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	SQM	2550.00	433.00
1707	Paving , Flooring and dado	50.16	BD-M	Supply & Fixing of Full Body Vitrifid Steptiles Ready to install Treads and Risers 16 mm thick, required width and required finish in plain pattern including Cement float, filling joints, with neat cement slurry, Natural sand, curing and cleaning etc complete. with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	SQM	2850.00	485.00
1708	Paving , Flooring and dado	50.17	BD-M	Supply & Fixing of Full Body Vitrifid Steptiles Ready to install Treads and Risers 12 mm thick, required width and required finish in plain pattern including Cement float, filling joints, with neat cement slurry, Natural sand, curing and cleaning etc complete.	As directed by Engineer-in-charge	SQM	2450.00	416.00
1709	Paving , Flooring and dado	50.18	BD-M	Supply & Fixing of Rock/ Stone Finished Full Body Vitrifid Steptiles with thick Bullnose for Ready to install Treads and Risers, 16 mm thick and of required width in plain pattern including Cement float, filling joints, with neat cement slurry, Natural sand, curing and cleaning complete. with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	SQM	3150.00	535.00
1710	Paving , Flooring and dado	50.19	BD-M	Supply & Fixing of Rock/ Stone Finished Full Body Steptiles Stone Vitrifid Tiles with thick Bullnose for Ready to install Steps and Risers 12 mm thick and required width wide in plain pattern including Cement float, filling joints, with neat cement slurry, Natural sand, curing and cleaning complete. with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	SQM	2650.00	450.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1711	Oil Painting	50.20	IS 12594-1988	Providing hot dip galvanizing conforming to IS 12594-1988 to reinforcement bars, having mass of zinc coating shall not be less than 610 gm/sqm of bar surface area factory control process with Degreasing, Rinsing, Acid Pickling, Again Rinsing after picking, Fluxing, Hot Dip Galvanizing in molten Zinc bath Having Zinc purity of bath minimum 98.5% Quenching & Passivation Process. 32 mm to 40 mm dia. with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	M.T.	15513.00	2637.00
1712	Oil Painting	50.21	IS 12594-1988	Providing hot dip galvanizing conforming to IS 12594-1988 to reinforcement bars, having mass of zinc coating shall not be less than 610 gm/sqm of bar surface area factory control process with Degreasing, Rinsing, Acid Pickling, Again Rinsing after picking, Fluxing, Hot Dip Galvanizing in molten Zinc bath Having Zinc purity of bath minimum 98.5% Quenching & Passivation Process. 16 to 25 mm dia with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	M.T.	16296.00	2770.00
1713	Oil Painting	50.22	IS 12594-1988	Providing hot dip galvanizing conforming to IS 12594-1988 to reinforcement bars, having mass of zinc coating shall not be less than 610 gm/sqm of bar surface area factory control process with Degreasing, Rinsing, Acid Pickling, Again Rinsing after picking, Fluxing, Hot Dip Galvanizing in molten Zinc bath Having Zinc purity of bath minimum 98.5% Quenching & Passivation Process. 8 to 12 mm dia with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	M.T.	16941.00	2880.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1714	Block masonry	50.23	BD-I	Providing and constructing non load bearing wall with 200 mm Horizontally perforated THERMO clay hollow blocks with compressive strength not less than 35kg/Sqcm, U value of 0.60 W/m2K, Water Absorption of 15% masonry to be done using sand cement mortar 1:6 with blocks of size 400mm x 200 mm x 200 mm (12.5 brick per Sqm. excluding mortar joint thickness) including cost of material, labour charges, scaffolding, curing at all height, complete as per specification & directions of Engineer in charge. Cost shall be inclusive of filling the blocks with cement mortar at exposed junctions and filling with concrete using 12mm down size aggregates at Window and door Jambs for fixing hold fast.anchors etc. It must be green building certified from IGBC and Griha and Should comply IS code 3952 with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge	SQM	2840.00	555.00
1715	Block masonry	50.24	IS code 3952	Providing and constructing non load bearing wall with 150 mm Horizontally perforated THERMO clay hollow blocks with compressive strength not less than 35kg/Sqcm, U value of 0.60 W/m2K, Water Absorption of 15% masonry to be done using sand cement mortar 1:6 with blocks of size 400mm x 150 mm x 200 mm (12.5 brick per Sqm. excluding mortar joint thickness) including cost of material, labour charges, scaffolding, curing at all height, complete as per specification & directions of Engineer in charge. Cost shall be inclusive of filling the blocks with cement mortar at exposed junctions and filling with concrete using 12mm down size aggregates at Window and door Jambs for fixing hold fast.anchors etc. It must be green building certified from IGBC and Griha and Should comply IS code 3952 with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge	SQM	2750.00	467.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1716	Plastering and pointing	50.25		Dry wall cladding with clay tile; Designing, supplying and fixing of Clay tile of Wienerberger (Red Series or Grey Series) or Equivalent with suitable size and thickness not less than 20 mm as per manufacturer with approved colour and pattern with composition of finest powdered clay and colour mixtures. The clay tile shall be fixed on the suitable farming system by using continuous aluminium profiled section as per manufacturer with suitable size and spacing to withstand the structural design criteria specified in the technical specification by using necessary HDG brackets, SS316 grade anchor bolts etc as per manufacturer specification. Cladding joints should be with open groove system. with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	SQM	10590.00	400.00
1717	Block masonry	50.26		Providing and constructing non load bearing wall with 200 mm Grinded Horizontally perforated clay hollow blocks with compressive strength not less than 35kg/Sqcm, U value of 1.00 W/m <sup>2</sup> K, Water Absorption of 15% tolerance on Grinded brick height is +/- 1.00 mm, masonry to be done using POROTHERM Dry Flx. System with 20 mm thick S shape application (Application method need to be followed as per Wienerberger methodology) blocks of size 400mm x 200 mm x 200 mm (12.5 brick per Sqm.) including cost of material, labour charges, scaffolding, curing at all height, complete as per specification & directions of Engineer in charge. Cost shall be inclusive of end bricks to be used at window and door jambs for fixing hold fast. anchors etc.,plastering is to be done as per requirement .and is to be considered seperatly with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	SQM	1822.00	130.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1718	Block masonry	50.27		Providing and constructing non load bearing wall with 150 mm Grinded Horizontally perforated clay hollow blocks with compressive strength not less than 35kg/Sqcm, U value of 1.2 W/m <sup>2</sup> K, Water Absorption of 15% tolerance on Grinded brick height is +/- 1.00 mm, masonry to be done using Dry Flx. System with 20 mm thick S shape application (Application method need to be followed as per Wienerberger methodology) blocks of size 400mm x 150 mm x 200 mm (12.5 brick per Sqm.) including cost of material, labour charges, scaffolding, curing at all height, complete as per specification & directions of Engineer in charge. Cost shall be inclusive of end bricks to be used at window and door jambs for fixing hold fast. anchors etc.,plastering is to be done as per requirement and is to be considered seperatly	As directed by Engineer-in-charge	SQM	1650.00	130.00
1719	Block masonry	50.28	BD-I	Providing and constructing non load bearing wall with 100 mm Grinded Horizontally perforated clay hollow blocks with compressive strength not less than 35kg/Sqcm, U value of 1.7 W/m <sup>2</sup> K, Water Absorption of 15% tolerance on Grinded brick height is +/- 1.00 mm, masonry to be done using Dry Flx. System with 20 mm thick S shape application (Application method need to be followed as per Wienerberger methodology) blocks of size 400mm x 100 mm x 200 mm (12.5 brick per Sqm.) including cost of material, labour charges, scaffolding, curing at all height, RCC. stiffener band necessary at every 1.0 meter height of the wall, complete as per specification & directions of Engineer in charge. Cost shall be inclusive of end bricks to be used at window and door jambs for fixing hold fast. anchors etc.,plastering is to be done as per requirement ,and is to be considered seperatly with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge	SQM	1325.00	130.00
1720	Plastering and pointing	50.29	BD-I	Providing and fixing of imported clay tiles pn M.S. frame Work using Maditerranean plus roof tiles of Wienberger tile of colour Red Engobe or equivalent with necessary accessories required to fix tile including clips and screw (Prior permission of S.E. is to be obtained before inclusion)	As directed by Engineer-in-charge	SQM	3062.00	555.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1721	Waret supply and sanitary	50.30	BD-V	Providing and fixing Ductile iron manhole cover of light/medium/heavy duty with frame of any size over inspection chamber etc. complete (Prior permission of S.E. is to be obtained before inclusion of this item in the estimate)	As directed by Engineer-in-charge	Kg	75.00	12.00
1722	Waret supply and sanitary	50.31	BD-V	Providing and constructing Ductile Iron circular manhole 45 cm dia. At top 90 cm at bottom up to 1.80 meter to 2.70 meter depth including excavation, laying 1:4:8 cement concrete bedding 15 cm thick burnt brick masonry with 1:1 cement mortar plaster 25 mm thick inside and outside 20 mm (1:3) ductile iron heavy type cover with ring 125 kg in weight. High strength. More life and Durability, Good Antiskid Grip, Suitable to heavy theatric loading, Light weight casting after cost benefits for Transportation Refilling etc. as per requirement. with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge	No.	12000.00	2040.00
	Geosynthetic	50.32	MORTH Section-700	Providing and laying CE Marked Woven Polypropylene Geotextile indigenously manufactured from black UV stabilized polypropylene tape yarn of Techfab India on the prepared subgrade for Reinforcement cum separation cum drainage & filtration application with necessary overlaps as per drawing etc. complete. (Specification: MORTH Section-700) with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge			
1723				a)TFI-5300 Type-I		SQM	160.00	44.00
	Geosynthetic	50.33	MORTH Section-700	Providing and laying CE Marked Woven Multifilament Polyester Geotextile indigenously manufactured using high molecular weight, high tenacity polyester filament yarn with high tensile strength, low elongation and low creep of Techfab India on the prepared subgrade for Reinforcement cum separation cum drainage & filtration application with necessary overlap as per drawing etc. complete. (Specification: MORTH Section-700) with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge			
1724		a		a) TFI-3100		SQM	160.00	44.00
1725		b		b) TFI-3200		SQM	224.00	44.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Geosynthetic	50.34	MORTH Section-700	Providing and laying CE Marked Needle Punched and Mechanically Bonded Non-Woven Geotextile (TechGeo) indigenously manufactured from high quality polypropylene staple fibres (continuous filament will not be accepted) of Techfab India on the prepared subgrade for separation, drainage & filtration application with necessary overlaps as per drawing etc. complete. (Specification: MORTH Section-700 ) with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge			
1726		a		a) TFI TECHGEO PR-15		SQM	134.00	44.00
1727		b		b) TFI TECHGEO PR-20		SQM	151.00	44.00
1728		c		c) TFI TECHGEO PR-30		SQM	167.00	44.00
1729		d		d) TFI TECHGEO PR-40		SQM	207.00	44.00
1730		e		e) TFI TECHGEO PR-60		SQM	279.00	88.00
	Geosynthetic	50.35	MORTH Section-700	Providing and Laying CE marked Knitted and PVC coated Polyester Biaxial Geogrid (Techgrid) for Basal Reinforcement indigenously manufactured from selected high tenacity polyester yarn with high molecular weight of Techfab India (> 25000 g/mol), and low carboxyl end group (<30mmol/kg) (extruded PP geogrids & Polyester strips & Geostrips, Steel Strips not allowed & not accepted). Requirement of geogrid strength in both direction and granular fill. (Coating of Geogrid/ reinforcing geosynthetic material with LDPE, Latex, Bitumen and any other coating will not be allowed and will not be accepted). For reinforcement application to subgrade, unbound sub base / base courses & soil stabilization, etc. complete (Specification: MORTH Section-700). with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge			
1731		a		a) TFI TechGrid GeoGrid TGB-40		SQM	199.00	44.00
1732		b		b) TFI TechGrid GeoGrid TGB-60		SQM	240.00	44.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Geosynthetic	50.36	MORTH Section-700	Providing and laying CE Marked PP Extruded Biaxial Geogrid for basal reinforcement, indigenously manufactured from virgin high density polypropylene of Techfab India having aperture size of (38 x 38)mm and ultimate tensile strength of 20 kN/m on both direction with minimum junction strength of 95% & minimum radial stiffness of 350 kN/m (@0.5% strain for reinforcement application to subgrade, unbound sub base / base courses & soil stabilization, etc. complete (Specification: MORTH Section-700).with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge			
1733		a		a) TFI TechGrid GeoGrid PP2020		SQM	230.00	44.00
1734		b		b) TFI TechGrid GeoGrid PP3030		SQM	296.00	44.00
	Geosynthetic	50.37	MORTH Section-700	Providing and laying CE Marked knitted and PVC coated Polyester Uniaxial Geogrid (Techgrid) indigenously manufactured from selected high tenacity polyester yarn with high molecular weight of Techfab India (> 25000 g/mol), and low carboxyl end group (<30 mmol /Kg) (extruded PP geogrid & Polyester strip & Geostrip, steel strips not allowed & not accepted ) with granular fill as per design prepared by technical provider of reinforced earth wall and slope. The reinforced earth wall and slope should have 100% coverage of 5m width knitted and PVC coated Polyester geogrid. (Coating of Geogrid/Reinforcing geosynthetic material with LDPE, Latex, Bitumen and any other coating will not be allowed and will not be accepted) for reinforced soil wall and reinforced slope application, etc. complete (Specification: MORTH Section-3100).with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge			
1735		a		a) TFI TechGrid GeoGrid TGU-40		SQM	181.00	44.00
1736		b		b) TFI TechGrid GeoGrid TGU-60		SQM	202.00	44.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Geosynthetic	50.38	MORTH Section-700	Providing and laying Geocell-Techcell CE Marked a three dimensional honeycomb like cellular confinement system having weld spacing 356mm and cell depth 150mm of Techfab India, indigenously manufactured by blend of various polyethylene and additives, polyethylene strips ultrasonically welded consists of a multiple rhomboidal indentations over the entire strip on the prepared subgrade for subgrade stabilization by reinforcement and drainage application for roads, ground improvement work and erosion control of slopes etc. complete. (Specification: MORTH Section-700) with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge			
1737		a		a) TFI TechCell GeoCell-356x150		SQM	560.00	44.00
1738		b		b) TFI TechCell GeoCell-660x75		SQM	326.00	44.00
	Geosynthetic	50.39	MORTH Section-700	Providing and laying CE Marked Reinforced Non-Woven Composite indigenously manufactured needle punched polypropylene (continuous filament will not be accepted) of Techfab India, Reinforced with high tenacity Polyester Yarn on the prepared sub grade for Reinforcement cum separation cum drainage & filtration application with necessary overlaps as per drawing etc. complete. (Specification: IRC:SP:59-MORTH Section-700) with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge			
1739		a		a) TFI TGC-60		SQM	207.00	44.00
1740		b		b) TFI TGC-90		SQM	252.00	44.00
	Geosynthetic	50.40	MORTH Section-700	Providing and inserting CE Marked Prefabricated Vertical Drain / Band Drain (TechDrain) of Techfab India indigenously manufactured with Polypropylene Core and wrapped with Non-Woven Geotextile in the very soft clay to a design depth for quick consolidation etc. complete. (Specification: MORTH Section-700).with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge			
1741		a		a) TFI TechDrain TD-3520 U 100mm x 4mm		RMT	73.00	4.00
1742		b		b) TFI TechDrain TD-5020 U 100mm x 5mm		RMT	87.00	4.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Geosynthetic	50.41	MORTH Section-700	Providing & fixing CE Marked Metal Gabions indigenously manufactured as per required section including boxes made of mechanically woven hexagonal shaped wire mesh of type, (8 x 10)cm, edges mechanically selvaged made of heavily (Zinc + PVC) coated G.I. wires as per BS:443, mesh wire 2.70/3.70 mm Ø (ID/OD), edge wire 3.40/4.40 mm Ø (ID/OD) of Techfab India type and filled with 20 to 50 Kg weight trap stones including conveying with all leads and lifts and placing at required places in required line, level, slope, section as directed, etc. and tied by 5% lacing wire 2.20/3.20 mm Ø (ID/OD) as directed by Engineer-in-charge. For retaining walls, toe walls, etc. for slope protection & erosion control application of river bank & sea-shore etc. complete (Specification: MORTH section-2500. (Excluding Rubble) with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge			
1743		a		a) For 1m height		Cum.	1953.00	88.00
1744		b		b) For 0.5m height		Cum.	2280.00	44.00
	Geosynthetic	50.42	MORTH Section-700	Providing and laying CE Marked Glassfibre GeoComposite (TechGlass AIC) indigenously manufactured from high performance glass fibre roving to form a reticular structural material with a unique combination of fused fibre glass and polypropylene non-woven needle punched geotextile to asphalt overlay flexible pavements and asphalt overlay distressed rigid pavements of Techfab India for Reinforcement, seizure reflective cracks, reduced surface rutting & water infiltration. (Specification: MoRTH section-700).with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge			
1745		a		a) TFI Techglass AIC-50		SQM	240.00	44.00
1746		b		b) TFI Techglass AIC-100		SQM	268.00	44.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Geosynthetic	50.43	MORTH Section-700	Providing and laying a Paving Fabric CE Marked Needle Punched and Mechanically Bonded Non-Woven Geotextile of Techfab India, indigenously manufactured from high quality polypropylene staple fibres (continuous filament will not be accepted) with heat treatment on one side to form a strong, flexible and dimensionally stable fabric structure, with optimum bitumen retention capacity to asphalt overlay over flexible pavement and distresses rigid pcc pavement for moisture barrier, avoid reflective cracking and stress relieving membrane with necessary overlaps as per drawing, etc. complete. (Specification: MORTH section-700). with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge			
1747				a) TFI TechPave-C040		SQM	116.00	44.00
	Geosynthetic	50.44	MORTH Section-700	Providing and laying Fin Drains (Drainage Composite) TFI TDC-55130W CE Marked indigenously manufactured by thermo bonding a polypropylene drainage core- Geonet comprises of two sets of parallel overlaid ribs integrally connected to have a rhomboidal shape and Needle Punched & Thermally Bonded Nonwoven Geotextile on the prepared sub base of paved/unpaved roads & behind the RE wall by replacing granular filter media for separation, drainage & filtration application with necessary overlaps as per drawing etc. complete . (Specification: MORTH Section-700 ) with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge			
1748				a) TFI TDC-55130W		SQM	431.00	44.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Geosynthetic	50.45	MORTH Section-700	Construction of Reinforced Earth Wall in M-35 Block Facia by Providing and Laying CE marked Knitted and PVC coated Polyester Uniaxial Geogrid (Techgrid) of Techfab India indegeniously manufactured from selected high tenacity polyester yarn with high molecular weight (> 25000 g/mol), and low carboxyl end group (<30mmol/kg) for Reinforced soil wall (extruded PP geogrids & Polyester strips & Geostrips, Steel Strips not allowed & not accepted) with granular fill of PHi-32 degree (design is to be carried out in accordance with BS-8006 / FHWA) with concrete block by M-35 as facia, casting & erection of blocks with Techgrid, providing & laying levelling pad by M-15, providing and laying coping beam by M-35, providing and laying 300mm thick filtermedia etc. completed as per necessary drawing and instruction of Engineer-in-charge. Excluding providing, laying and compacting selected backfill and retained fill behind the wall, excavation and ground improvement, if any. The reinforced earth wall and slope should have 100% coverage of 5m width Knitted and PVC coated Polyester Geogrid. (Coating of Geogrid/ Reinforcing geosynthetic material with LDPE, Latex, Bitumen and any other coating will not be allowed and will not be accepted). (Specification: MORTH Section-3100) with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge			
1749		a		a) RE Wall Height 1 to 4 meter		SQM	5486.00	44.00
1750		b		b) RE Wall Height 4 to 6 meter		SQM	5832.00	88.00
1751		c		c) RE Wall Height 6 to 8 meter		SQM	6085.00	132.00
1752		d		d) RE Wall Height 8 to 10 meter		SQM	6313.00	177.00
1753		e		e) RE Wall Height 10 to 12 meter		SQM	6831.00	221.00
1754		f		f) RE Wall Height 12 to 14 meter		SQM	7285.00	265.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	Road safty work	50.46	IS: 10146-1982, IS:10141-1982	<p>Providing Heavy Duty Fibre Glass Reinforced Plastic Temporary Barricade of 1.75 m hight, with base width of 430 mm as a provision to accept water ballasting of 101 ltrs-110 Ltrs approx. and arrangement for traffic diversion such as traffic signals during construction at site, for day and night as per requirement. The raw material shall be UV stabilized Linear Low Density Polyethylene and should meet the requirements stipulated in standard IS: 10146-1982, IS:10141-1982 and should also comply to FDA:CFR Title 21.177.1520. Olefin Polymers , with specific FRP Grade 300-104 reinforced during moulding process to the permissible extent for improved impact strength. Qualification Criteria: For qualifying the sample , few tests shall be performed at Government Lab OR NABL Accredited Lab on Site Safety Fence sample, failure or deviations in test results of sample shall be disqualified.The tests and qualifying results are as under, (a) tensile strength at yield by ASTM D 638 =20.93 mPA, (b) Elongation at break ASTM D 638 = 121.66 mPA (c) Flexural Modulus ASTM D 790 = 633.76 mPA (d) Izod Impact Strenth (Notched) ASTM D 256 = 4.41 Kg / Sqm (e) Izod Impact Strenth (Un-Notched) ASTM D 256 = 67.04 Kg / Sqm (f) Drop Impact strength 25 Kg Load from 1 m, 2 m &amp; 5m height the weight of empty single Rotomoulded Plastic Barricade without water ballasting shall be 34 kgs approx. &amp; total weight after water allasting shall be 135 kgs -140 kgs +/- 5 kgs (tolarence)The main Barricade body of hight 1750 mm approx is connected with the Extension body through 4 set of nut bolt washers .extension body through 4 set of nut bolt washers. Extension body is designed with 9 Nos kiss offs on rear side; the dimension of Extension body are 1500 mm (length),70 mm (width),250 mm (effetive height after fixing ) &amp;</p>	As directed by Engineer-in-charge			

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				to fix two brackets at both end in corner for anchoring purpose .each rear bracket is constructed through rod of Dia.60 mm with curvature welded with MS strip of 3 mm thick ,50 mm width and 90 mm length at its top and base ,effective bracket shall be 410 mm approx. the anchoring hole in each bracket shall be 18 mm dia. for routine the MS bolts of 16 mm thickness and 150 mm length with sharp pointed edge at one end .the upper part of each bracket shall have a slot size of 30 mm x 10 mm for connecting it with barricade model through bolts.similarly front bracket for site safety fence is 3 mm thick ,50 mm width, feective height after single bend is 230 mm and anchoring in each bracket shall be dia 18 mm unique safety feature for firm gripping to prevent from displacement and falling when inter connected even without water filling . There shall be 7 no's premoulded inserts on site Safety Fence for following application: 2no's for safety latches interconnectivity, 2 no's for fixing rear brackets for anchoring, one no. at front side for fixing the front bracket for higher stability, and 2 nos on Extension top for holding light brackets / Rod for cloth holding. The plastic barricades has a strong vertical rib of 1740 mm length at the rear centre & 72 No's of kiss offs spread on entire rear surface , the water container (bottom) will also be equipped with 2 additional ribs on top to withstand nominal load if applied over its surface. The Fibre glass Reinforced Plastic Site Safety Fence shall have one drain bung insert moulded with plastic plug , two injection moulded water caps/ lids for base tank, and one yellow black zebra reflective tape as integrated accessories. Please refer the detailed drawing of Site Safety Fence. During construction barricading and arrangement for traffic diversion				
1755		a		a) For 725 mm height (LType Jersey Barrier ) ,Empty Weight:6.67 Kg/ Rgm,Weight Full : 35.89 Kg / Rgm approx. (After Water / Sand Filling)		RMT	1846.00	314.00
1756		b		b) For 750 mm height (With Interlocking provison - For Traffic Delineation Applications ) , Empty Weight:9.04 Kg/ Rgm,Weight Full : 57.14 Kg / Rgm approx. (After Water / Sand Filling)		RMT	2872.00	488.00
1757		c		c) For 750 mm height ( Jersey Barrier Model with unique Interlocking Provision) , Empty Weight:9.0 Kg/ Rgm,Weight Full : 55.00 Kg / Rgm approx. (After Water / Sand Filling)		RMT	5026.00	854.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1758		d		d) Site Safety Fence (1.75 Mtrs(H)) (Efficient Substitution to sheet Metal Barricade) , Empty Weight 16.57: Kg/ Rgm,Weight Full : 74.29 Kg / Rgm approx. (After Water / Sand Filling)		RMT	8103.00	1377.00
1759		e		e) Site Safety Fence (2.00 Mtrs(H)) (Efficient Substitution to sheet Metal Barricade) , Empty Weight : 17.00 Kg/ Rgm,Weight Full : 70.00 Kg / Rgm approx. (After Water / Sand Filling)		RMT	8718.00	1482.00
1760	Road work	50.47	RD	organosilance Nanotechnology for Bituminous organosilance nanotechnology such as Zycotherm added in the bitumen binder @ 0.1% dosage to the weight of the bitumen at HMA plant to schive chemical bonding,complete coating and consistant compaction in various bituminous mixes such as BM/DBM/Carpet/sealcoat/MSS/SDBC etc.as per the direction of Engineer-in-charge with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge	Kg	1400.00	238.00
1761	Road work	50.48	RD	Water proofing of subgrade:waterproofing on top compacted (as per relevant MORT&H specification)sub grade and shoulder soil base with organosilance Nanotechonology & nano acrylic co-polymer with water (<1000 ppm TDS)in the ratio of 1 kg Organosilance Nanotechonology :1 kg nano acrylic co-polymer :200 liter water spray @3 liter/sqm in two spray application (1.5 liter +1.5 liter) as per direction of the Engineer-in-charge. with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge	SQM	14.78	2.00
1762	Road work	50.49	RD	providing and applying primer coat with bitumen emulsion on prepared surface of Aggregate layer including clearing of road surface and spraying primer mixed with Nano- Technology silance in the ratio 1:100:100 (1 kg silance :100 kg SS1 Emulsion:100 liter water);the rate of 1 Liter/Sqm using mechanical means as per the direction of Engineer-in-charge. with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge	SQM	18.09	3.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1763	Road work	50.50	RD	Tack coat (with Silance nanotechnology):preparing and applying of water soluble organo silance nanotechnology (for bitumen emulsion application ,IRC approved) with cationic bitumen emulsion CRS1 and water (< 1000 ppm TDS) in the ratio of 1:4 kg organo silance : 100 kg cationic bitumen emulsion CRSS1: 200 liter water. with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	SQM	8.37	1.50
1764	Road work	50.51	RD	Construction of stabilised soil base with organo silance by providing locally available moorum/soil(70%) mixed with 30% GSB II with 2% cement by MDD of mix, 0.6 kg/Cum nanotechnology silane & 0.6 kg/cum of Acrilic Nano - Co polymer, Spreading in uniform layers with grader on prepared surface by mixing in place method with rotavator at OMC and compacting with smooth wheel roller to achieve the desired density, complete as per Table 2.3 of IRC SP - 77-2008 as per direction of Engineer - in -charge. with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	CUM.	1613.00	275.00
1765	Road work	50.52	RD	Construction of stabilised soil base with organo silance by providing locally available moorum/soil(70%) mixed with 30% GSB II with 3% cement by MDD of mix, 0.6 kg/Cum nanotechnology silane & 0.6 kg/cum of Acrilic Nano - Co polymer, Spreading in uniform layers with grader on prepared surface by mixing in place method with rotavator at OMC and compacting with smooth wheel roller to achieve the desired density, complete as per Table 2.3 of IRC SP - 77-2008 as per direction of Engineer - in -charge.with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	CUM.	1700.81	289.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1766	Road work	50.53	RD	Construction of stabilised soil base with organo silance by providing locally available moorum/soil(70%) mixed with 30% GSB II with 4% cement by MDD of mix, 0.6 kg/Cum nanotechnology silane & 0.6 kg/cum of Acrilic Nano - Co polymer, Spreading in uniform layers with grader on prepared surface by mixing in place method withrotavator at OMC and compacting with smooth wheel roller to achieve the desired density, complete as per Table 2.3 of IRC SP - 77-2008 as per direcion of Engineer - in -charge.	As directed by Engineer-in-charge	CUM.	1788.62	304.00
1767	Road work	50.54	RD	Supplying trap/granite/quartzite/gneiss stone metal of required size by bringing the boulders / Rubble at the road side breaking them to required gradation including conveying the boulders /Rubble and stacking the broken metal etc. complete . (Prior approval of sample stack of broken metal by the Ex. Engineer is necessary the date of approval will form part of the measurements) a)80 mm Metal, By breaking rubble obtained by blasting.(Hand broken). with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge	CUM.	730.00	325.00
1768	Road work	50.55	RD	Supplying trap/granite/quartzite/gneiss stone metal of required size by bringing the boulders / Rubble at the road side breaking them to required gradation including conveying the boulders /Rubble and stacking the broken metal etc. complete . (Prior approval of sample stack of broken metal by the Ex. Engineer is necessary the date of approval will form part of the measurements) a)40 mm Metal, By breaking rubble obtained by blasting.(Hand broken).	As directed by Engineer-in-charge	CUM.	780.00	350.00
1769	Road work	50.56	RD	Supplying trap/granite/quartzite/gneiss stone metal of required size by bringing the boulders / Rubble at the road side breaking them to required gradation including conveying the boulders /Rubble and stacking the broken metal etc. complete . (Prior approval of sample stack of broken metal by the Ex. Engineer is necessary the date of approval will form part of the measurements) a)80 mm Metal, By breaking Boulders (Hand broken).	As directed by Engineer-in-charge	CUM.	700.00	335.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1770	Road work	50.57	RD	Supplying trap/granite/quartzite/gneiss stone metal of required size by bringing the boulders / Rubble at the road side breaking them to required gradation including conveying the boulders /Rubble and stacking the broken metal etc. complete . (Prior approval of sample stack of broken metal by the Ex. Engineer is necessary the date of approval will form part of the measurements) a)40 mm Metal, By breaking Boulders (Hand broken).	As directed by Engineer-in-charge	CUM.	750.00	360.00
1771	Road work	50.58	RD	<b>Spreading 80/40 mm metal</b> for road work including sectionong etc complete as directed by Engineer in charge .	As directed by Engineer-in-charge	CUM.	85.00	75.00
1772	Road work	50.59	RD	Compacting the sub grade/gravel/oversize metal (200 mm loose) layers for all width with Power roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete. ☒	As directed by Engineer-in-charge	SQM	27.00	4.00
1773	Road work	50.60	RD	Compacting the sub grade/gravel/oversize metal (200 mm loose) layers for all width with Vibratory roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete. ☒	As directed by Engineer-in-charge	SQM	37.00	4.00
1774	Road work	50.61	RD	Compacting the sub grade / gravel / size metal (100 mm loose) layers for all widths with Power roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete. ☒	As directed by Engineer-in-charge	SQM	25.00	4.00
1775	Road work	50.62	RD	Compacting the sub grade / gravel / size metal (100 mm loose) layers for all widths with vibratory roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete. ☒	As directed by Engineer-in-charge	SQM	34.00	4.00



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1776	Miscellaneous	50.79	BD-W	Providing and applying two coats Apex Ultima Puranature Anti-Pollution Or equivalent approved brand, paint should decomposes organic substances and inorganic gases(NO <sub>x</sub> , VOC's, CO, SO <sub>x</sub> , formaldehydes, etc.) in presence of natural or artificial light. It contains Graphene and nanoparticles of titanium oxide. and Absorbs CO <sub>2</sub> (4.8 kg/15 l). plaster crack should be filled by Acrylic base Crack seal/Textured Crack filler, Paint has to applied on one coat of Apex Ultima Puranature Anti-Pollution Primer or Equivalent. Warranty Should be given by the Manufaturer The work should be done by the Manufacturer Recommended applicator and he should be able to furnish stage wise onsite technical reports from the concerned company technologist.	As directed by Engineer-in-charge	SQM	371.89	0.00
1777	Miscellaneous	50.80	BD-W	Supply of ready mix patch repairing compound as per section 3000.2.2(filling pothole and patches repair with specific approval of the engineer),MORT&H specifications for roads and bridge works,5th Revision, for instant repair of surface defects of road under all weather conditions.The premix should consists of a binder with hydrophilic properties and accelerated adherence to all types of aggregares and can be applied on all patches and potholes including water logged patches and poyholes and in rainy conditions. The material should be suitable for both Bituminous and concrete roads with quick setting properties and allow traffic to be released within 10 mins.of patch or pothole repair.the material should for use on roads with both passanger and heavy commercial vechiles.The mix should be suitable for repairing of surfacing course and should be comparising of fine aggregates 0-10 mm,(5.5-7.5 %).additives as ewquired.the mix should packed in bags which can be easily handled manually and be storable under normal storage conditions for at least 8 month.	As directed by Engineer-in-charge	Kg	25.00	0.00
	Door and Windows	50.81	BD-T	Fire Door 45mm 1HR FRL (60/60) 3 Criteria - INTEGRITY / INSULATION/ STABILITY WOODEN DOOR - Fire Door Tested in accordance to IS: 3614 Part 2.	As directed by Engineer-in-charge			

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				Providing of Tufwud make 60 min Fire rated doors system duly tested for 3 criteria - Integrity, Insulation and Stability Criteria as per the IS: 3614 Part 2 and BS: 476 part 22 at National Test House, Govt of India laborator and/or with Central Building Research Institute, Govt of India undertaking with standard heating conditions as specified in IS:3614 Part II 1992 and BS: 476 part 20 & 22 1987 to achieve the required integrity, insulation and stability (i.e. to restrict the heat radiation, temperature rise on the non fire side to the maximum of 140° C above the ambient temperature on the exposed surface of the shutter. The fire doors are tested with NCBN technology ("Non Combustible by Nature"). with prior approval of concerned Superintending Engineer.				
1778				<b>a) Door Frame:</b> Supplying 'Tufwud' brand frames for Fire resistant door shutters 1st class Malaysian Hardwood Frame densified (810 kg/cum) and pressure treated with fire retardant chemicals in vacuum impregnation vessel under 160 psi pressure as per IS:401and kiln seasoned to moisture below 15% as per IS:1141 of section 120 X 60 mm spray quoted with 2 coats of intumescent paint of minimum 200 micron, with single row of Brush- Type ASTROFLAME intumescent strip of size 10mm x 4mm affixed in the slit of the Frame for fire and smoke sealing, etc. complete.		RMT	963.80	162.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1779				<b>b)Shutter :</b> Providing of 65mm thick asbestos free composite - 3 criteria - fire, heat and smoke check Accoustic Door Shutter with flame guard of 120 minutes IS3614 part -II comprising of 2x9mm Calcium Silicate boards, Chemical treated internal timber with Fire retardant chemicals in pressure impregnation vessels under 160 PSI pressure as per IS:401and kiln seasoned to moisture below 15% as per IS:1141 frame work of 100x32 mm with 32mm thick infill of ceramic fiber (density 128Kgs/CMT), vermaculite mix faced with 6mm Fire retardant High Density ply, internally lipped with hardwood beading, and pasted in Hydraulic Press under 50 tonnes pressure, spray quoted with 2 coats of In tumescent paint of minimum 200 micron, and with 1 row of Brush- Type Astroflame® intumescent strip (imported) of size 10mmx4mm concealed for fire and smoke sealing in the grooves in the shutter on all edges except bottom, without any external lipping.		SQM	5808.60	639.00
1780				<b>c) Vision Panel:</b> 1 HR rated E Class clear high stress fire rated glass is pre fabricated strategically inside the shutter structure with 10 mm inside the shutter on all sides with U-glazing. An additional insulated powdercoated 'Z' channel of 16 swg MS sheet to be fixed for reinforcement of the joints. With clear fire resistant glass panes 11mm thick having minimum 120 minutes fire Description		SQM	34696.00	30.00
	Door and Windows	50.82	BD-T	Providing of Tufwud make Accoustic Door to effectively control noise inconference rooms, broadcasting studios, theatres and music practice rooms. with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge			

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1781				<b>a)Door Frame:</b> Providing Frames for Accoustic door shutters with double rabbit of 68mm 1st class Malaysian Hardwood Frame densified and pressure treated with chemicals in vacuum impregnation vessel under 160 PSI pressure as per IS:401and kiln seasoned to moisture below 15% as per IS:1141 of section 120 X 70 mm spray quoted with 2 coats of In tumescent paint of minimum 200 micron, with 1 row of Hafele Accoustic seals concealed in the groove of the Frame for noise control, etc. complete as per direction of Engineer in Charge		RMT	1315.70	162.00
1782				<b>b)Shutter:</b> Providing of 65mm thick Accoustic Door Shutters with wooden structure comprising of Chemical treated internal timber with anti termite chemicals in pressure impregnation vessels under 160 PSI pressure as per IS:401and kiln seasoned to moisture below 15% as per IS:1141 frame work of 100x 48 mm with 48 mm thick infill of ceramic vermiculite mix of density 54Kgs/CMT, 3mm sheet rubber interlayer sheet on one side for acoustic property, faced with 6mm High Density Waterproof Ply confirming to IS Code 2201, internally lipped with hardwood beading, and pasted in Hydraulic Press under 50 tonnes pressure, spray quoted with 2 coats of PU paint of minimum 200 micron of color of engineer choice (any Veneer or Lamination will cost extra), without any external lipping along with double rebatting in shutters & accoustic seal		SQM	10402.90	162.00
	Door and Windows	50.83	BD-T	2 Hour Insulated, Flame, Smoke Radiation check Lead Lined Fire Door 57mm 2HR FRL (120/120) 3 Criteria - INTEGRITY / INSULATION/ STABILITY WOODEN DOOR - Fire Door Tested in accordance to IS: 3614 Part 2. with prior approval of concerned Superitending Engineer	As directed by Engineer-in-charge			

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				Providing of Tufwud make 120 min Fire rated lead lined doors system duly tested for 3 criteria - Integrity, Insulation and Stability Criteria as per the IS: 3614 Part 2 and BS: 476 part 22 with standard heating conditions as specified in IS:3614 Part II 1992 and BS: 476 part 20 & 22 1987 to achieve the required integrity, insulation and stability (i.e. to restrict the heat radiation, temperature rise on the non fire side to the maximum of 140° C above the ambient temperature on the exposed surface of the shutter. The fire doors are tested with NCBN technology ("Non Combustible by Nature"). Lead lined to check radiation. Code No; 2 Hour Insulated, Flame, Smoke Radiation check Lead Lined Fire Door 57mm 2HR FRL (120/120) 3 Criteria - INTEGRITY / INSULATION/ STABILITY WOODEN DOOR - Fire Door Tested in accordance to IS: 3614 Part 2.				
1783				a) <b>Door Frame:</b> Providing Frames for Lead Lined Fire resistant door shutters 1st class Malaysian Hardwood Frame densified and pressure treated with fire retardant chemicals in vacuum impregnation vessel under 160 PSI pressure as per IS:401and kiln seasoned to moisture below 15% as per IS:1141 of section 140 X 70 mm with 45mm thick two layered 3mm Lead Line Sheets with 10mm overlap from either side & spray quoted with 2 coats of Intumescent paint of minimum 200 micron, with 1 row of Brush- Type Astroflame® intumescent strip (imported) of size 10mmx4mm concealed in the groove of the Frame for fire and hot and cold smoke sealing, etc. complete as per direction of Engineer in Charge		RMT	2314.90	485.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1784				b) <b>Shutter:</b> Providing of 57mm thick asbestos free composite, 'TUFWUD' brand - 3 criteria - fire, heat and smoke check Lead Lined Door Shutter with flame guard of 120 minutes IS3614 part -II comprising of 2x9mm Calcium Silicate boards, Chemical treated internal timber with Fire retardant chemicals in pressure impregnation vessels under 160 PSI pressure as per IS:401and kiln seasoned to moisture below 15% as per IS:1141 frame work of 100x30 mm with 30mm thick infill of ceramic fibre (density 128 Kgs/CMT) vermiculite mix, 3mm thick Lead Sheet on one side faced & 3mm Fire retardant High Density Fibreboard, internally lipped with hardwood beading, and pasted in Hydraulic Press under 50 tonnes pressure, spray quoted with 2 coats of Intumescent paint of minimum 300 micron, and with 1 row of Brush- Type Astroflame® intumescent strip (imported) of size 10mmx4mm concealed for fire and smoke sealing in the grooves in the shutter on all edges except bottom, without any external lipping.		SQM	16790.70	1093.00
	Door and Windows	50.84	BD-T	Providing of Tufwud make Lead Lined Door system with 120x60 mm Hardwood Frames, interlayered with 3mm lead and 44mm Solid core flush door shutters conforming to the I.S. specification 2202-1991 (specification for wooden flush door shutter – solid core type), interlayered with 3mm lead with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge			
1785				a) <b>Door Frame:</b> Providing Frames for Lead Lined door shutters 1st class Malaysian Hardwood Frame densified and pressure treated with fire retardant chemicals in vacuum impregnation vessel under 160 PSI pressure as per IS:401 and kiln seasoned to moisture below 15% as per IS:1141 of section 120 X 70 mm with 45mm thick two layered 3mm Lead Line Sheets being overlapped from either side, spray quoted with 2 coats of Enamel paint after one coat of white wood primer of minimum 200 micron etc. complete as per direction of Engineer in Charge. with prior approval of concerned Superintending Engineer.		RMT	1875.80	485.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1786				b) <b>Shutter:</b> Supplying of 'TUFWUD' brand 44mm Solid core flush door shutters conforming to the I.S. specification 2202-1991 (specification for wooden flush door shutter – solid core type). 32mm Wooden structure of 1st class Hardwood or Pinewood of at least 50mm width, top and bottom rails of 75mm width, with filler material without any gap of 1st Class Hardwood, or pine wood, all chemically treated for termite and borer resistance as per IS 401:2001 under minimum 150 PSI pressure, and seasoned as per IS 1141: 1993 upto desired moisture level as per IS 287, with one side 3mm HDF & other side 3mm lead & 6mm BWP ply; all hot-pressed with Phenol Formaldehyde resin, internally lipped with hardwood beading, and pasted in Hydraulic Press under 50 tonnes pressure, spray quoted with 2 coats of enamel paint of minimum 300 micron. with prior approval of concerned Superintending Engineer.		SQM	13564.60	639.00
1787	er supply and sani	50.85	BD-V	Providing and fixing Ductile iron Man Hole Covers/ Strom Water Grating and Grating with frame of Various sizes, weight and types and load bearing capacity as per EN-124, equivalent NECO with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	Kg	150.00	15.00
	er supply and sani	50.86	BD-V	Supplying installation testing and commisssioning of Hubless centrifugally cast iron pipes as per ISI 15905 equivalent to NECO inclusive of all necessary special fitting like bends, tees, and caps, 'Y' bends for cleaning offsets, junctions, cowls, etc. lad under floor/fixed on walls and in pipe shafts etc. complete. The quoted rate should include lead and lifting charges to all levels, necessary scaffolding and supports like hanger supports grip bolts and CV sheet 304 grade clamps etc. with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge			
1788		a		a) 50 mm dia		Rmt	1100.00	110.00
1789		b		b) 65 mm dia		Rmt	1280.00	128.00
1790		c		c) 75 mm dia		Rmt	1380.00	138.00
1791		d		d) 100 mm dia		Rmt	1600.00	160.00
1792		e		e) 150 mm dia		Rmt	2850.00	285.00
1793		f		f) 200 mm dia		Rmt	4750.00	285.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
<b>SSR 2019-20 Additional New items</b>								
<b>BUILDING WORKS</b>								
1794	Accoustic	51.01		Providing & Fixing in position, Acoustical Panelling made from Fabric wrapped Compressed polyester fibre nonwoven 9 mm panels on, 50 x 50 mm sal-wood frame of 600 x 600 c to c having wooden supports from wall of required length, in front of 1000 gsm synthetic wool 50 mm thick with chicken mesh on wall side, including cost of required Cut-Outs, decorative mouldings / finishing-items / paint & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects.including all materials labour,finishing etc complete	As directed by Engineer-in-charge	Sqm	4590	1375
1795	Accoustic	51.02		Providing & Fixing in position, Acoustical Panelling made from Wood-wool board 20mm on, 50 x 50 mm Sal-wood frame of 600 x 600 c to c having wooden supports from wall of required length, in front of 1000 Gsm synthetic wool 50 mm thick with chicken mesh on wall side, including cost of required Cut-Outs, decorative mouldings / finishing-items / paint & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects. including all materials labour,finishing etc complete	As directed by Engineer-in-charge	Sqm	3430	1025
1796	Accoustic	51.03		Providing & Fixing in position, Acoustical Panelling made from Gypsum plain 12mm panels on, 50 x 50 mm Sal-wood frame of 600 x 600 c to c having wooden supports from wall of required length, in front of 1000 Gsm synthetic wool 50 mm thick with chicken mesh on wall side, including cost of required Cut-Outs, decorative mouldings / finishing-items / paint & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects. including all materials labour,finishing etc complete	As directed by Engineer-in-charge	Sqm	2300	690



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1797	Accoustic	51.04		Providing & Fixing in position, Acoustical Panelling made from 12mm wp Ply wood & 1.5mm laminate on, 50 x 50 mm Sal-wood frame of 600 x 600 c to c having wooden supports from wall of required length, in front of 1000 Gsm synthetic wool 50 mm thick with chicken mesh on wall side, including cost of required Cut-Outs, decorative mouldings / finishing-items / paint & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects.including all materials labour,finishing etc complete	As directed by Engineer-in-charge	Sqm	5090	1500
1798	Accoustic	51.05		Providing & Fixing in position Acoustical Doors along with 150 x 150 mm teak wood frame, doors made from 50mm Teak wood frame 600 x600 c to c filled with 1000 Gsm synthetic wool 50mm thick and 3mm Tecsound from both sides, 12mm waterproof ply & veneer from both sides , including 150mm heavy duty SS hinges (Geze / Dorma or eq.) 4 no each leaf, with Door-closer (Dorma / Geze or eq.) including cost of required Cut-Outs, decorative mouldings / finishing-items / melamine polish & Scaffolding as per Architectural & Acoustical Design & Instructions & Complete in all aspects .including all materials labour,finishing etc complete	As directed by Engineer-in-charge	Sqm	23700	7100
1799	Accoustic	51.06		Providing & fixing in position Stage flooring Made from 18mm plywood 1200 x 2400 & 18mm Teakwood planks 100 x 800 having tongue & groove on Sal-wood frame of 50 x 100 at 600mm c to c on stage surface including cost of required Cut-Outs, decorative mouldings / finishing-items / polish etc., as per Architectural & Acoustical Design & Instructions & Complete in all aspects. .including all materials labour,finishing etc complete	As directed by Engineer-in-charge	Sqm	8215	2460

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1800	Accoustic	51.07		Providing & Fixing in position, Acoustical Ceiling made from Gypsum Plain Panels on approved heavy duty G.I. frame ceiling channels at 450 c to c, & intermediate channels not more than 1200 c to c, along with ply wood forms suspended with Hangers from Roof, in front of 1000 Gsm synthetic wool 50 mm thick, with Paint, including cost of required Cut-Outs, decorative mouldings / finishing-items & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects.including all materials labour,finishing etc complete	As directed by Engineer-in-charge	Sqm	1465	430
1801	Accoustic	51.08		Providing & Fixing in position, Acoustical Ceiling made from Compressed polyester fibre nonwoven 9mm panels on approved heavy duty GI frame 300 mm c to c & intermediate channels at 1200 mm c to c, suspended with Hangers from Roof, including cost of required Cut-Outs, decorative mouldings / finishing-items & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour,finishing etc complete	As directed by Engineer-in-charge	Sqm	2865	850
1802	Accoustic	51.09		Providing & Fixing in position, Acoustical Ceiling made from Rigitone 8/18 perforated panels on approved heavy duty G.I. frame, ceiling channels at 300 c to c, & intermediate channels not more than 1200 c to c, suspended with Hangers from Roof, in front of 1000 Gsm synthetic wool 50 mm thick, with Paint, including cost of required Cut-Outs, decorative mouldings / finishing-items & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour,finishing etc complete	As directed by Engineer-in-charge	Sqm	4135	1200

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1803	Accoustic	51.10		Providing & Fixing in position, Acoustical Panelling made from 12mm thick Agro wood strips of 50, 75 7 100 mm width on 50 x 50 mm Sal-wood frame of 600 x 600 c to c having supports from wall of required length, in front of 1000 gsm synthetic wool 50 mm thick with approved coloured fabric on strips side & chicken mesh on wall side, including cost of required Cut-Outs, decorative mouldings / finishing-items / Melamine Polish & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects. including all materials labour,finishing etc complete	As directed by Engineer-in-charge	Sqm	5075	1500
1804	Accoustic	51.11		Providing & Fixing in position, Fabric wrapped Compressed polyester fibre nonwoven 9mm panels above the wood wool board panelling or existing sal wood frame, using adhesive, as per Architectural & Acoustical Design & Instructions & Complete in all aspects. including all materials labour,finishing etc complete	As directed by Engineer-in-charge	Sqm	2950	875
1805	Accoustic	51.12		Providing & Fixing in position, Partition made from 12mm thick Gypsum from both sides on 50 x 50 mm Sal-wood frame of 600 x 600 c to c, having of 800 gsm synthetic wool 50 mm thick in between, including cost of required Cut-Outs & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour,finishing etc complete	As directed by Engineer-in-charge	Sqm	2524	750
1806	Accoustic	51.13		Providing & Fixing in position, Carpet more than 800+ gsm, made with100% stain proof fibres of approved make along with 5mm underlay as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour,finishing etc complete	As directed by Engineer-in-charge	Sqm	1450	435
1807	Accoustic	51.14		Providing & Fixing in position, 1000 mm wide Auto-glow Aluminium extruded strips on auditorium steps as per Design & Instructions & Complete in all aspects. Make Piccolo or Nexus	As directed by Engineer-in-charge	No.	1410	420
1808	Accoustic	51.15		Providing & Fixing in position, 12mm wp Ply wood & 1.5mm laminate panels above the fabricated frame on one side , as per Architectural & Acoustical Design & Instructions & Complete in all aspects. including all materials labour,finishing etc complete	As directed by Engineer-in-charge	Sqm	3170	950

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1809	Accoustic	51.16		Providing & Fixing in position, MS fabrication work using angles, sqr tubes, c channels etc for various partition frame as per Design & Instructions & Complete in all aspects . including all materials labour,finishing etc complete	As directed by Engineer-in-charge	Kg	85	25
1810	Accoustic	51.17		Providing & Fixing in position, Under Deck insulation for metal deck using 1000 Gsm synthetic wool with fixed to deck using adhesive and chicken mesh.	As directed by Engineer-in-charge	220	740	220
1811	Accoustic	51.18		Providing & fixing in position, heavy duty fully upholstered Auditorium chairs 520 mm c to c tip-up type. Height of back should be less than 1030 mm with plastic protective cover on back and bottom having teak wood handles. Back to back distance is 1000mm. The auditorium chairs should be of following specifications 1. Powder Coated Heavy duty MS Stand. 2. Individually moulded , ergonomically designed seat and back cushions. 3.Moulded Polyurethane Foam cushion. PU foam density 48 – 52 kgs/cu.mtr 4. Moulded Polyurethane Foam manufactured in certified ISO 9001 facility to ensure consistency in density for longevity .5.Upholstered in Foam laminated stretch sandwich Fabric for clean finish and soft comfortable feel as per the colour & pattern selected by the client. 6.Seat and Back should have moulded synthetic protective cover. 7. Wooden or PU armrest 65mm x 20mm - 330mm long . 8.Mounted using Anchor fasteners.	As directed by Engineer-in-charge	No.	6000	1800
1812	Accoustic	51.19		Providing and Fixing Rollar Blinds AMI Make or approved make & shade of 38mm round Aluminium channel with Blackout fabric & telting with chain (Ball) system with all necessary fixtures and fitting etc. complete. (Sample to be final by Engineer In-charge prior execution of work)	As directed by Engineer-in-charge	Sqm	2152	645
1813	Accoustic	51.20		Providing and Fixing Vertical Blinds of approved Make and shade of 100mm regular fabric with powder coated aluminium channel with telting PVC chain & bottom weight plate with all necessary fixtures and fitting etc. complete. (Sample to be final by Engineer In-charge prior execution of work)	As directed by Engineer-in-charge	Sqm	1025.00	300.00

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1814	Furniture	51.21		<b>Executive's Table @ 1800Lx900Dx750HT</b> Providing & Fixing of Table @ 1800Lx900Dx750HT - TOP & GABLE END to be made of Membrane finish with soft water fall edges & curved panel & Decorated Anodized section MODESTY PANEL to be made of 18 mm thick Prelaminated particle board with PVC edge band as per drawing	As directed by Engineer-in-charge	No.	17231.00	---
1815	Furniture	51.22		<b>Pedestal Unit @ 420Lx450Dx650HT</b> Providing & Fixing of PEDESTAL @ 420Lx450Dx650HT :- To be made out of Complete Membrane consist of three Drawers as per drawing.	As directed by Engineer-in-charge	No.	9004.00	---
1816	Furniture	51.23		<b>Credestal @ 1200Lx450Lx650HT</b> Providing & Fixing of LOW HEIGHT CREDESTAL @ 1200L X 450D X 650H :- To be made out of Membrane Finish ( 2 Openable Shutter & 3	As directed by Engineer-in-charge	No.	17498.00	---
1817	Furniture	51.24		<b>Executive Table @ 2250Lx2100Dx750HT including Low Height Credestal @ 1200Lx450Dx650HT</b> Providing & Fixing of Table @ 2250Lx2100Dx750HT TOP & GABLE END to be made of Membrane finish with soft water fall edges & curved panel & Decorated Anodized section MODESTY PANEL to be made of 18 mm thick Prelaminated particle board with PVC edge band. INCLUDING CREDESTAL @ 1200L X 450D X 650H :- To be made out of Membrane Finish ( 2 Openable Shutter & 3 Drawer Pedestal in between ) as per drawing.	As directed by Engineer-in-charge	No.	42635.00	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1818	Furniture	51.25		<p><b>Medium Height Partition @ 1800/1200HT</b>  TILE BASED PARTITION SYSTEM:- Tile based Aluminum partition system of 1800/1200 mm ht. made of 60mm thk aluminum frames having two separate race ways for laying electrical &amp; computer wiring. The wire management shall be through to the race way to be fitted at bottom of partition and other immediately below of work top with hook on type raceway cover for easy access of wires. Frames to be joined by aluminum connectors with M6 x 16 pan-head machin screw and washer with aluminum post cover. Post cover of snap on fashion to be connected on aluminum connectors. All visible aluminium to be in anodized finish. The top/ exposed sides of the frame and posts should be covered with horizontal/ Vertical trim and caps made of Aluminum in anodized finish in order to enhance its look.Upper tiles of partition to be in Soft Board or Marker tile of 9mm. thk., and prelaminated partical board lower tiles in laminate finish of 9mm. thk. on both the sides.</p>	As directed by Engineer-in-charge	No.	7552.00	---
1819	Furniture	51.26		<p><b>Free Standing Table @ 1500Lx600Dx750HT</b>  Providing and fixing Table of Size 1500 x 600 x 750 mm. Top: made from 25 mm Prelaminated Particle board. All edges are covered by 2 mm. Thk. PVC edge bands glued by hot melt glue applied by auto edge banding machine.  Legs : C Shape made from CRCA Sheet with Powder Coat finish.  Modesty panel : Made from 18mm both side prelaminated particle boards.All edges are covered by 0.8mm PVC edge bands glued by hot melt glue applied by auto edge banding machine.KEYBOARD TRAY ( WITHOUT MOUSE TRAY ) :- Metal Powder Coated - Black Color, CPU TROLLEY :- Metal Powder Coated - Black Color, 3 DRAWER PEDESTAL UNIT having overall size 392L x 450D x 680Ht. mm. with central lock and key. Drawers and body are complete metal with powder coat finish, facia in 18 mm prelaminated particle board,</p>	As directed by Engineer-in-charge	No.	16893	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1820	Furniture	51.27		<p><b>Free Standing Table @ 1350Lx600Dx750HT</b></p> <p>Providing and fixing Table of Size 1350 x 600 x 750 mm. Top: made from 25 mm Prelaminated Particle board. All edges are covered by 2 mm. Thk. PVC edge bands glued by hot melt glue applied by auto edge banding machine.</p> <p>Legs : C Shape made from CRCA Sheet with Powder Coat finish.</p> <p>Modesty panel : Made from 18mm both side prelaminated particle boards.All edges are covered by 0.8mm PVC edge bands glued by hot melt glue applied by auto edge banding machine.KEYBOARD TRAY ( WITHOUT MOUSE TRAY ) :- Metal Powder Coated - Black Color, CPU TROLLEY :- Metal Powder Coated - Black Color, 3 DRAWER PEDESTAL UNIT having overall size 392L x 450D x 680Ht. mm. with central lock and key. Drawers and body are complete metal with powder coat finish, facia in 18 mm prelaminated particle board,</p>	As directed by Engineer-in-charge	No.	16411	---
1821	Furniture	51.28		<p><b>Free Standing Table @ 1200Lx600Dx750HT</b></p> <p>Providing and fixing Table of Size 1200 x 600 x 750 mm. Top: made from 25 mm Prelaminated Particle board. All edges are covered by 2 mm. Thk. PVC edge bands glued by hot melt glue applied by auto edge banding machine.</p> <p>Legs : C Shape made from CRCA Sheet with Powder Coat finish.</p> <p>Modesty panel : Made from 18mm both side prelaminated particle boards.All edges are covered by 0.8mm PVC edge bands glued by hot melt glue applied by auto edge banding machine.KEYBOARD TRAY ( WITHOUT MOUSE TRAY ) :- Metal Powder Coated - Black Color, CPU TROLLEY :- Metal Powder Coated - Black Color, 3 DRAWER PEDESTAL UNIT having overall size 392L x 450D x 680Ht. mm. with central lock and key. Drawers and body are complete metal with powder coat finish, facia in 18 mm prelaminated particle board,</p>	As directed by Engineer-in-charge	No.	14436	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1822	Furniture	51.29		<b>Library Area Table @ 1350Lx750Dx750HT</b> Providing & Fixing of FREE STANDING TABLE @ 1350Lx750Dx 750HT:- TOP to be made of 25 mm thick Prelaminated particle board with PVC edge band, BENT LEG to be CHROME FINISH as per drawing.	As directed by Engineer-in-charge	No.	10897	---
1823	Furniture	51.30		<b>Providing &amp; Fixing Curvilinear Workstation @ 1500/1500Lx600/600Dx750HT</b> Providing & Fixing Curvilinear Workstation @ 1500/1500Lx600/600Dx750HT, Curvilinear Table Top @ 1500/1500Lx600/600D :- TOP to be made of 25 mm thick Prelaminated particle board with PVC edge band, GABLE END to be made of 25 mm thick Prelaminated particle board with PVC edge band, KEYBOARD TRAY ( WITHOUT MOUSE TRAY ) :- Metal Powder Coated - Black Color, CPU TROLLEY :- Metal Powder Coated - Black Color, along with 3 DRAWER PEDESTAL UNIT having overall size 392L x 450D x 680Ht. mm. with central lock and key. 3 Drawers and body are complete metal with powder coat finish, facia in 18 mm prelaminated particle board,	As directed by Engineer-in-charge	No.	15767	---
1824	Furniture	51.31		<b>Conference Table @ 3600Lx1400Dx750HT</b> Providing & Fixing of Main Table @ 3600Lx1400Dx750HT - made up of 18+18mm Thick MDF top with PVC Membrane finish and waterfall edge profile. Aluminium Anodized finish beeding of 4mm thich is running all over the table top edge. Gable ends is Aerofoiled Shape with front edges in PVC Membrane finish and rest in Prelaminated MDF with batton structure. Gable ends should be hollow from inside for the provision of passing electrical and Data wiring. , MODESTY PANEL:- to be made of 18 mm thick Prelaminated particle board with PVC edge band Access Flap:- For Wire manager 2 Nos.	As directed by Engineer-in-charge	No.	99105	---



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1825	Furniture	51.32		<p><b>Conference Table @ 1800 x 900 x 750 mm Ht.</b>            Providing &amp; Fixing of Main Table @ 1800Lx900Dx750HT - made up of 18+18mm Thick MDF top with PVC Membrane finish and waterfall edge profile. Aluminium Anodized finish beeding of 4mm thick is running all over the table top edge. Gable ends is Aerofoiled Shape with front edges in PVC Membrane finish and rest in Prelaminated MDF with batton structure. Gable ends should be hollow from inside for the provision of passing electrical and Data wiring. , MODESTY PANEL:- to be made of 18 mm thick Prelaminated particle board with PVC edge band            Access Flap:- For Wire manager 1 Nos.</p>	As directed by Engineer-in-charge	No.	21108	---
1826	Furniture	51.33		<p><b>12 Seater Reading Table for Library @ 3600Lx1200Dx750HT</b>            Providing and Fixing 12 Seater Reading Table for Librery @ 3600Lx1200Dx750HT Top: made from 25 mm Prelaminated Particle board. All edges are covered by 2 mm. Thk. PVC edge bands glued by hot melt glue applied by auto edge banding machine.            Gable Ends : made from 25 mm Prelaminated Particle board. All edges are covered by 2 mm. Thk. PVC edge bands glued by hot melt glue applied by auto edge banding machine. Modesty panel : Made from 18mm both side prelaminated particle boards.All edges are covered by 0.8mm PVC edge bands glued by hot melt glue applied by auto edge banding machine.</p>	As directed by Engineer-in-charge	No.	29536	---
1827	Furniture	51.34		<p><b>3 DRAWER PEDESTAL UNIT @ 392L x 450D x 680Ht. mm.</b>            3 DRAWER PEDESTAL UNIT having overall size 392L x 450D x 680Ht. mm. with central lock and key. 3 Drawers and body are complete metal with powder coat finish, facia in 18 mm prelaminated particle board.</p>	As directed by Engineer-in-charge	No.	8108	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1828	Furniture	51.35		<b>Low Height Openable Storage @ 900Lx450x750HT</b> Providing and fixing Openable Steel Storage of 900 x 450 x 750Ht, with 2 adjustable shelves, Complete body & shutter made in 0.8 mm thick & Top in 2 mm thick CRCA, 2 Shutter to be mounted with the help of cup hinges, and 4 adjustable levelers, enitre storage in powder coated finish with 60 to 80 microns. with 25 mm. thk additional Top on top of storage as as per drawing	As directed by Engineer-in-charge	No.	12646	---
1829	Furniture	51.36		<b>Medium Height Steel Storage @ 750Lx450Dx1200HT</b> Providing and fixing Openable Steel Storage of 750 x 450 x 1200Ht, with 2 adjustable shelves, Complete body & shutter made in 0.8 mm thick & Top in 2 mm thick CRCA, 2 Shutter to be mounted with the help of cup hinges, and 4 adjustable levelers, enitre storage in powder coated finish with 60 to 80 microns. with 25 mm. thk. as per drawing.	As directed by Engineer-in-charge	No.	15452	---
1830	Furniture	51.37		<b>Full Height Steel Storage @ 750Lx450Dx2100HT</b> Providing and fixing Openable Steel Storage of 750 x 450 x 2100Ht, with 4 adjustable shelves, Complete body & shutter made in 0.8 mm thick & Top in 2 mm thick CRCA, 4 Shutter to be mounted with the help of cup hinges, and 4 adjustable levelers, enitre storage in powder coated finish with 60 to 80 microns as as per drawing.	As directed by Engineer-in-charge	No.	18925	---
1831	Furniture	51.38		<b>Multiple Compartment Lockers @ 1140Lx 457D x 1830 mm. Ht.</b> Providing and fixing Multiple Compartment Lockers @ 1140Lx 457D x 1830 mm. Ht. with 12 Compartments , Complete body & shutter made of CRCA Sheet with powder coated finish as per approved color.	As directed by Engineer-in-charge	No.	43427	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1832	Furniture	51.39		<b>Book Case with Glass Shutter @ 825Lx300Dx1650HT</b> Providing & Fixing of Book Case with Glass Shutter @ 825Lx300Dx1650HT:- To be made out of complete body & in 0.7mm thick CRCA & Shutter in 1.2mm thick CRCA with glass pannel in Powder coating finish as per drawing.	As directed by Engineer-in-charge	No.	26727	---
1833	Furniture	51.40		Providing & Arrangemnt of High Back, Synchronized Mechanism with Multiple Locking, Adjustable Armrest, Gaslift for Seat height adjustment, Standard 5-prong P/Nylon Base with Leatherite Upholstery	As directed by Engineer-in-charge	No.	17371	---
1834	Furniture	51.41		Providing & Arrangemnt of High Back Chair - TILT MECHANISM WITH MULTILOCKING, HIGH DENSITY CUSHION ON SEAT COMPOSITE LEATHER WITH METALLIC SILVER FINISH BASE AND ARMS WITH P.U.CASTORS GASLIFT FOR HEIGHT ADJUSTMENT.	As directed by Engineer-in-charge	No.	15474	---
1835	Furniture	51.42		Providing & Arrangemnt of Mld Back, Normal Syncro Mechanism , Fixed Armrest , Gaslift for Seat height adjustment, Standard 5-prong/Nylon Base with Leather Upholstery	As directed by Engineer-in-charge	No.	9563	---
1836	Furniture	51.43		Providing & Arrangemnt of Mid Back, ECO CTS Mechanism , Fixed Armrest , Gaslift for Seat height adjustment, Standard 5-prong P/Nylon Base with Fabric Upholstery	As directed by Engineer-in-charge	No.	6520	---
1837	Furniture	51.44		<b>Public Seating Chair. - 3 Seater</b> Providing and Fixing 3 seater Public seating chair made of complete metal with Legs in Crome finish and seates in silver powder coating finish.	As directed by Engineer-in-charge	No.	18056	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1838	Furniture	51.45		<p><b>Double Faced Mobile Unit for Compactor 2150mmH x 2745mmW x 900mmD</b></p> <p>Providing and fixing Double Faced Mobile Unit for Compactor 2150mmH x 2745mmW x 900mmD - BASE FRAME : Base Frame shall be fabricated in channel Type from minimum 2.5 mm thick MS Sheet Size of Channel 25mm x 100mm x 45mm.</p> <p>GUIDE RAILS : The guide rails shall be made out of 28mm Bright bar placed on 1.2 mm thick M.S. Plate which will be above the floor and are as per the international standard of safety.</p> <p>SUPER STRUCTURE : Super structure of the Mobile storage system will consist of knock down type panels. All the components such as shelves, front panel, end panel, vertical rear panel, central partition etc. Will act as an integral member of the Unit. SHELVES : Shelves made of 22SWG thick Prime Quality C.R.C.A. having 10 folds each will be provided each designed to carry a U.D.L. of 70 kgs. VERTICAL PANEL : Vertical panel consists of the front, Centre &amp; rear panel shall be made out of 20SWG thick C.R.C.A. Prime quality Mild Steel &amp; designed to take the load of shelves.</p>	As directed by Engineer-in-charge	No.	135808	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				<p>DRIVE COVER PANEL : Made out of 22SWG thick C. R.C. A. prime quality Steel to cover the entire drive mechanism. CENTRE PARTITION : The Centre partition will comprise of a full C.R.C.A. prime quality Mild Steel 22SWG Sheet. LOCKING : System will be provided with individual rack locking as well as centralised locking arrangement on the last unit when all units are brought together, central lock when operated gets locked with the floor &amp; does not allow access to the units. DRIVE MECHANISM : Driving Mechanism will be provided externally supported on special grade anti-friction bearing to have smooth &amp; effortless movement. Entire mechanism or gear &amp; sprockets shall be incorporated within the front panel provided in the front of the unit within an area of 1000mm x 200mm x 60mm. DRIVING WHEEL : Fully Powder Coated three pronged drive wheel for better torque &amp; free movement of the rack over the guide rail. INDEXING ARRANGEMENT : Acrylic card holders provided on the front panel for easy identification &amp; retrieval. FINAL FINISH : Powder Coating (8 tanks process with 70 microns).</p>				

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1839	Furniture	51.46		<p><b>Single Faced Mobile Unit for Compactor 2150mmH x 2745mmW x 457mmD</b></p> <p>Providing and fixing Single Faced Mobile Unit for Compactor 2150mmH x 2745mmW x 457mmD - BASE FRAME : Base Frame shall be fabricated in channel Type from minimum 2.5 mm thick MS Sheet Size of Channel 25mm x 100mm x 45mm.</p> <p>GUIDE RAILS : The guide rails shall be made out of 28mm Bright bar placed on 1.2 mm thick M.S. Plate which will be above the floor and are as per the international standard of safety.</p> <p>SUPER STRUCTURE : Super structure of the Mobile storage system will consist of knock down type panels. All the components such as shelves, front panel, end panel, vertical rear panel, central partition etc. Will act as an integral member of the Unit. SHELVES : Shelves made of 22SWG thick Prime Quality C.R.C.A. having 10 folds each will be provided each designed to carry a U.D.L. of 70 kgs. VERTICAL PANEL : Vertical panel consists of the front, Centre &amp; rear panel shall be made out of 20SWG thick C.R.C.A. Prime quality Mild Steel &amp; designed to take the load of shelves. DRIVE COVER PANEL : Made out of 22SWG thick C. R.C. A. prime quality Steel to cover the entire drive mechanism. CENTRE PARTITION : The</p>	As directed by Engineer-in-charge	No.	99768	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				<p>Centre partition will comprise of a full C.R.C.A. prime quality Mild Steel 22SWG Sheet. LOCKING : System will be provided with individual rack locking as well as centralised locking arrangement on the last unit when all units are brought together, central lock when operated gets locked with the floor &amp; does not allow access to the units. DRIVE MECHANISM : Driving Mechanism will be provided externally supported on special grade anti-friction bearing to have smooth &amp; effortless movement. Entire mechanism or gear &amp; sprockets shall be incorporated within the front panel provided in the front of the unit within an area of 1000mm x 200mm x 60mm. DRIVING WHEEL : Fully Powder Coated three pronged drive wheel for better torque &amp; free movement of the rack over the guide rail. INDEXING ARRANGEMENT : Acrylic card holders provided on the front panel for easy identification &amp; retrieval. FINAL FINISH : Powder Coating (8 tanks process with 70 microns).</p>				

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1840	Furniture	51.47		<p><b>Single Faced Fixed Unit for Compactor 2150mmH x 2745mmW x 457mmD</b></p> <p>Providing and fixing Single Faced Fixed Unit for Compactor 2150mmH x 2745mmW x 457mmD - BASE FRAME : Base Frame shall be fabricated in channel Type from minimum 2.5 mm thick MS Sheet Size of Channel 25mm x 100mm x 45mm.</p> <p>GUIDE RAILS : The guide rails shall be made out of 28mm Bright bar placed on 1.2 mm thick M.S. Plate which will be above the floor and are as per the international standard of safety.</p> <p>SUPER STRUCTURE : Super structure of the Mobile storage system will consist of knock down type panels. All the components such as shelves, front panel, end panel, vertical rear panel, central partition etc. Will act as an integral member of the Unit. SHELVES : Shelves made of 22SWG thick Prime Quality C.R.C.A. having 10 folds each will be provided each designed to carry a U.D.L. of 70 kgs. VERTICAL PANEL : Vertical panel consists of the front, Centre &amp; rear panel shall be made out of 20SWG thick C.R.C.A. Prime quality Mild Steel &amp; designed to take the load of shelves. DRIVE COVER PANEL : Made</p>	As directed by Engineer-in-charge	No.	64014	---



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				<p>out of 22SWG thick C. R.C. A. prime quality Steel to cover the entire drive mechanism. CENTRE PARTITION : The Centre partition will comprise of a full C.R.C.A. prime quality Mild Steel 22SWG Sheet. LOCKING : System will be provided with individual rack locking as well as centralised locking arrangement on the last unit when all units are brought together, central lock when operated gets locked with the floor &amp; does not allow access to the units. DRIVE MECHANISM : Driving Mechanism will be provided externally supported on special grade anti-friction bearing to have smooth &amp; effortless movement. Entire mechanism or gear &amp; sprockets shall be incorporated within the front panel provided in the front of the unit within an area of 1000mm x 200mm x 60mm. DRIVING WHEEL : Fully Powder Coated three pronged drive wheel for better torque &amp; free movement of the rack over the guide rail. INDEXING ARRANGEMENT : Acrylic card holders provided on the front panel for easy identification &amp; retrieval. FINAL FINISH : Powder Coating (8 tanks process with 70 microns).</p>				

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1841	Furniture	51.48		<p><b>Double Faced Mobile Unit for Compactor 2150mmH x 1830mmW x 900mmD</b></p> <p>Providing and fixing Double Faced Mobile Unit for Compactor 2150mmH x 1830mmW x 900mmD - BASE FRAME : Base Frame shall be fabricated in channel Type from minimum 2.5 mm thick MS Sheet Size of Channel 25mm x 100mm x 45mm.</p> <p>GUIDE RAILS : The guide rails shall be made out of 28mm Bright bar placed on 1.2 mm thick M.S. Plate which will be above the floor and are as per the international standard of safety.</p> <p>SUPER STRUCTURE : Super structure of the Mobile storage system will consist of knock down type panels. All the components such as shelves, front panel, end panel, vertical rear panel, central partition etc. Will act as an integral member of the Unit. SHELVES : Shelves made of 22SWG thick Prime Quality C.R.C.A. having 10 folds each will be provided each designed to carry a U.D.L. of 70 kgs. VERTICAL PANEL : Vertical panel consists of the front, Centre &amp; rear panel shall be made out of 20SWG thick C.R.C.A. Prime quality Mild Steel &amp; designed to take the load of shelves. DRIVE COVER PANEL : Made out of 22SWG thick C. R.C. A. prime quality Steel to cover the entire drive mechanism. CENTRE PARTITION : The Centre partition will comprise of a full C.R.C.A. prime quality Mild Steel 22SWG Sheet. LOCKING : System will be provided</p>	As directed by Engineer-in-charge	No.	95652	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				with individual rack locking as well as centralised locking arrangement on the last unit when all units are brought together, central lock when operated gets locked with the floor & does not allow access to the units. DRIVE MECHANISM : Driving Mechanism will be provided externally supported on special grade anti-friction bearing to have smooth & effortless movement. Entire mechanism or gear & sprockets shall be incorporated within the front panel provided in the front of the unit within an area of 1000mm x 200mm x 60mm. DRIVING WHEEL : Fully Powder Coated three pronged drive wheel for better torque & free movement of the rack over the guide rail. INDEXING ARRANGEMENT : Acrylic card holders provided on the front panel for easy identification & retrieval. FINAL FINISH : Powder Coating (8 tanks process with 70 microns).				
1842	Furniture	51.49		<p><b>Single Faced Mobile Unit for Compactor 2150mmH x 1830mmW x 457mmD</b></p> <p>Providing and fixing Single Faced Mobile Unit for Compactor 2150mmH x 1830mmW x 457mmD - BASE FRAME : Base Frame shall be fabricated in channel Type from minimum 2.5 mm thick MS Sheet Size of Channel 25mm x 100mm x 45mm.</p> <p>GUIDE RAILS : The guide rails shall be made out of 28mm Bright bar placed on 1.2 mm thick M.S. Plate which will be above the floor and are as per the international standard of safety.</p> <p>SUPER STRUCTURE : Super structure of the Mobile storage system will consist of knock down type panels. All the components such as shelves, front panel, end panel, vertical rear panel, central partition etc. Will act as an integral member of the Unit. SHELVES : Shelves made of 22SWG thick Prime Quality C.R.C.A. having 10 folds each will be provided each designed to carry a U.D.L. of 70 kgs. VERTICAL PANEL : Vertical panel consists of the front, Centre &amp; rear panel shall be made out of 20SWG thick C.R.C.A. Prime quality Mild Steel &amp; designed to take the load of shelves. DRIVE COVER PANEL : Made out of 22SWG thick C. R.C. A. prime quality Steel to cover the entire drive mechanism. CENTRE PARTITION : The</p>	As directed by Engineer-in-charge	No.	69900	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				<p>Centre partition will comprise of a full C.R.C.A. prime quality Mild Steel 22SWG Sheet. LOCKING : System will be provided with individual rack locking as well as centralised locking arrangement on the last unit when all units are brought together, central lock when operated gets locked with the floor &amp; does not allow access to the units. DRIVE MECHANISM : Driving Mechanism will be provided externally supported on special grade anti-friction bearing to have smooth &amp; effortless movement. Entire mechanism or gear &amp; sprockets shall be incorporated within the front panel provided in the front of the unit within an area of 1000mm x 200mm x 60mm. DRIVING WHEEL : Fully Powder Coated three pronged drive wheel for better torque &amp; free movement of the rack over the guide rail. INDEXING ARRANGEMENT : Acrylic card holders provided on the front panel for easy identification &amp; retrieval. FINAL FINISH : Powder Coating (8 tanks process with 70 microns).</p>				

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1843	Furniture	51.50		<p><b>Single Faced Fixed Unit for Compactor 2150mmH x 1830mmW x 457mmD</b></p> <p>Providing and fixing Single Faced Fixed Unit for Compactor 2150mmH x 1830mmW x 457mmD - BASE FRAME : Base Frame shall be fabricated in channel Type from minimum 2.5 mm thick MS Sheet Size of Channel 25mm x 100mm x 45mm.</p> <p>GUIDE RAILS : The guide rails shall be made out of 28mm Bright bar placed on 1.2 mm thick M.S. Plate which will be above the floor and are as per the international standard of safety.</p> <p>SUPER STRUCTURE : Super structure of the Mobile storage system will consist of knock down type panels. All the components such as shelves, front panel, end panel, vertical rear panel, central partition etc. Will act as an integral member of the Unit. SHELVES : Shelves made of 22SWG thick Prime Quality C.R.C.A. having 10 folds each will be provided each designed to carry a U.D.L. of 70 kgs. VERTICAL PANEL : Vertical panel consists of the front, Centre &amp; rear panel shall be made out of 20SWG thick C.R.C.A. Prime quality Mild Steel &amp; designed to take the load of shelves. DRIVE COVER PANEL : Made out of 22SWG thick C. R.C. A. prime quality Steel to cover the entire drive mechanism. CENTRE PARTITION : The Centre partition will comprise of a full C.R.C.A. prime quality</p>	As directed by Engineer-in-charge	No.	44223	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				Mild Steel 22SWG Sheet. LOCKING : System will be provided with individual rack locking as well as centralised locking arrangement on the last unit when all units are brought together, central lock when operated gets locked with the floor & does not allow access to the units. DRIVE MECHANISM : Driving Mechanism will be provided externally supported on special grade anti-friction bearing to have smooth & effortless movement. Entire mechanism or gear & sprockets shall be incorporated within the front panel provided in the front of the unit within an area of 1000mm x 200mm x 60mm. DRIVING WHEEL : Fully Powder Coated three pronged drive wheel for better torque & free movement of the rack over the guide rail. INDEXING ARRANGEMENT : Acrylic card holders provided on the front panel for easy identification & retrieval. FINAL FINISH : Powder Coating (8 tanks process with 70 microns).				
1844	Furniture	51.51		<b>Stool for Lab and Class-IV</b> Providing and fixing 4 legged Lab stool, Legs made of 16 Guage 45 MM Outer dimension MS Pipe, Duly painted, With a 304 Grade Stainless steel 12 inch wide seat with a 1 inch collar, Height adjustment via a screw. as per design and drawing and instructions of Engineer in charge.	As directed by Engineer-in-charge	No.	2617	---
1845	Furniture	51.52		<b>Alluminium foldable ladder for store</b> Providing & Fixing Foldable Alluminium Ladder 1500 mm. Ht.	As directed by Engineer-in-charge	No.	3961	---
1846	Furniture	51.53		<b>Sofa Set 3+1+1</b> Providing & fixing Sofa Set 3+1+1 Brown and Cream leather DIMENSION Length: 182.5 (cms) Breadth (cms): 100 (cms)Height (cms): 100 (cms) Weight (kgs): 66 (Kg) Seating Capacity: Five Seat	As directed by Engineer-in-charge	No.	39612	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1847	Furniture	51.54		<b>Tea Table 900mm X 750mm X 450mm for m.s. ante chamber</b> Providing And Fixing Of Tea Table 900mm X 750mm X 450mm With 12mm Thick Colour Etched Tempered Glass With Bevelled Drawing Made Out Of 18mm Thick Waterproofing Ply. The Outer Laces To Be Finished With High Quality 4 Mm Thik Veneer Or 1 Mm Thik Mica Etc.	As directed by Engineer-in-charge	No.	11123	---
1848	Furniture	51.55		<b>Single Bed @ 2025LX 1000DX 650H</b> Providing and fixing Single Bed of Size 2025Lx1000Dx650H with mattress and pillow. Understructure: - The legs are made of Square tube of size 25 x 25mm made out of MS with a thickness of 1.2 mm. The legs should have corner brackets welded to it at two levels. The corner brackets are made of 2mm thick CRCA having a L shaped structure to join the side panels and headboard to the leg. Three nos. of Horizontal stiffeners are provided at equal intervals. The stiffeners are made of Square tube of size 25 x 25mm made out of MS with a thickness of 1.2mm. The middle Horizontal Stiffener has a leg attached to it to transfer the load to the ground and add to the strength and stability of the complete structure. This leg is also made of Square tube of size 25 x 25mm made out of MS with a thickness of 1.2mm. All Metal components to undergo 7 tank treatment process and should be powder coated to the thickness of minimum 50 Microns DFT.	As directed by Engineer-in-charge	No.	19367	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				<p>Side Panel: - The side panels are made up of 18mm thick Prelam Particle Board with both side decorative laminate. All exposed edges are sealed with 2mm thick PVC edge Banding. The overall width of the side panel is 150mm. The side panels have 18mm thick prelam particle board Baton running for required length to add rigidity to the structure.</p> <p>Head Board :- The head board is made up of 18mm thick Prelam Particle Board with both side decorative laminate. All exposed edges are sealed with 2mm thick PVC edge Banding. The head board size to be considered as 1000 x 650mm.</p> <p>Foot Board :- The foot board is made up of 18mm thick Prelam Particle Board with both side decorative laminate. All exposed edges are sealed with 2mm thick PVC edge Banding. The head board size to be considered as 1000 x 450mm.</p> <p>Bed Base: - The Bed Base is made up of 12mm thick Prelam Particle Board with both side White laminate.</p>				
1849	Furniture	51.56		<p><b>Dressing Table @400LX 400DX 1800H</b></p> <p>Providing &amp; Fixing Dressing Table of size 400LX 400DX 1800H. The Dressing table unit is made up of 18mm thick Prelam Particle Board with both side decorative laminate. All exposed edges are sealed with 2mm thick PVC edge Banding. The unit has one drawer and one shelf. The dressing table has a mirror of 4mm thick pasted on 18mm thick prelm particle board attached to the base unit. The mirror size considered is 1155 x 360 x 4(t). The mirror has been pasted using high quality 3M sticker.</p>	As directed by Engineer-in-charge	No.	17352	---



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1850	Furniture	51.57		Wardrobe with Mirror @ 900LX 600DX 1965H Providing and Fixing Wardrobe with Mirror of size 900LX 600DX 1965H The wardrobe side panels and doors are made up of 18mm thick Prelam Particle Board with both side decorative laminate. All exposed edges are sealed with 2mm thick PVC edge Banding. The shelves are made of 18mm thick Prelam Particle Board with decorative laminate on both sides. The top is made of 36mm prelam particle board with decorative laminate on both sides. (18mm Prelam Particle board and 18mm batons on all sides to achieve 36mm overall thickness). The exposed edges of the top are sealed with 2mm thick PVC edge Banding. The top most part of the wardrobe has an aluminum hanger rod of EBCO make. One drawer of size 400(W) x 150(H) x 450 (D) made of 18mm thick prelam Particle Board has been considered. The drawer will have a multipurpose lock of EBCO premium make. The wardrobe handles are Satin SS finish of 160mm pitch. The wardrobe has a multipurpose lock of EBCO make. All hinges considered are Hettich make. Necessary good quality hardwares have been considered as required.	As directed by Engineer-in-charge	No.	40389	---
1851	Furniture	51.58		<b>Bed Side Table @ 400LX 400DX 415H</b> Providing and Fixing Bed Side Table of size 400LX 400DX 415H The bed side unit is made up of 18mm thick Prelam Particle Board with both side decorative laminate. All exposed edges are sealed with 2mm thick PVC edge Banding. The bed side table has one drawer and one shelf. The shelf is made of 18mm thick Prelam Particle Board with both side decorative laminate. All exposed edges are sealed with 2mm thick PVC edge Banding	As directed by Engineer-in-charge	No.	6401	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1852	Furniture	51.59		<b>Kitchen Trolley</b> Providing and Fixing stainless steel kitchen trolley of overall 26 " height and 22" depth,supported on aluminium pipes ,trolley basket made out of 5 mm stainless steel rod fitted on telescopic channel of size 1.5 " x 20 " x 22 " on both sides of trolley of 12 " or above size, panel having 40 kg load bearing capacity of trolley made out of 20 mm PUC coated plywood and colour combination as directed by E-I-C.Inner side of panel covered by white mica ,100 mm s.s. decorative handle.(The width and height of individual compartments shall be kept as directed by Engineer-in-charge)	As directed by Engineer-in-charge	Rmt	1500	---
1853	Doors and windows	51.60		<b>Solid Core Flush door Single leaf</b> Providing and fixing factory made solid core flush door in single leaf 35 mm thick, decorative types, of exterior grade, as per detailed drawings, conforming to I.S.:2202 - 1962 (Revised) with approved face veneers on both faces with/without glazing and venetians in the positions shown on the drawings or as directed, all necessary beads, moulding and lipping, holdfasts, mat finish stainless steel fixtures fastenings , finishing with french-polish/ waxing complete. (without	As directed by Engineer-in-charge	Sqm	2750	---
1854	Doors and windows	51.61	BDR	<b>Solid Core Flush door Double leaf</b> Providing and fixing factory made solid core flush door shutters in double leaves 35mm thick,decorative type of exterior grade, as per detailed drawings, conforming to I.S.: 2202 – 1966 (Revised) including approved face veneers on both sides, without glazing and venetians including mat finish stainless steel fixtures and fastening, stoppers and finishing with french polishing etc. (Excluding door frame)(Sample to be got approved from Ex. Engineer before use) Commercial Hard Wood shutter	As directed by Engineer-in-charge	Sqm	3100	---
1855	Plastering	51.62	BDL	Providing Silica plaster plaster externally in two coats in all positions including base coat of 8 to 10 mm thick curing the same for not less than two days and keeping the surface of base coat rough to receive the final coat treatment 5 to 7 mm thick .finishing the surface by taking out grains and curing for 8 to 10 dayscaffolding etc complete.(The silica plast material shall contain 53 grade OPC cement with pozzolanic materials .size of agreeegates shall be of 3 mm having 1:3 proportion with cement.	As directed by Engineer-in-charge	Sqm	560	331

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1856	PWD persons	51.63	BDV	Providing and Fixing toilet set for differently Abled persons consist of Floor Mounted white vitreous china water Closet including 6 litre capacity white vitreous china flushing Cistern with raised soft-push button, white vitreous china wash basin of size 46 x 36 cm and one no SS 304 hinged rail 76 cms & three no SS 304 of (Grab Bar) 60 cms all including cutting and making good the walls and floors wherever required ,seat cover, cistern & wash basin fittings,nuts, bolts and gasket etc complete of make Hindware(Matrix series 70002)/ Cera or equivalent as per the direction of Engineer-In-charge.	As directed by Engineer-in-charge	Sqm	70780	21000
1857	PWD persons	51.64	BDT	Providing and fixing ISI marked double swing flush door shutters conforming to IS :2202 (Part I) Non-decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 30 mm thick including ISI marked Stainless Steel L- hinges with necessary screws Fittings & Fixtures per leaf SS kick plates on both sides of the door of 300mm height Heavy Duty satin finish butt SS Hinges (100mm x 75mm x 3mm in size) -4 nos. SS finished lever handle with mortise lock- 1 no. Floor spring- 1 No. 100mm x 100mm safety glass at the specified location	As directed by Engineer-in-charge	Sqm	12500	3750
1858	PWD persons	51.65		Providing and applying blue and white coloured thermoplastic road marking paints for marking a 3ft x 3 ft universal accessibility symbol within the parking bay as paer the drawings and up to the satisfaction of the engineer in charge.	As directed by Engineer-in-charge	No.	1575	470

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1859	PWD persons	51.66		Acrylic tactile audio map Design, supply, fabrication and fixing of acrylic, non glare, tactile audio pictorial building layout as per the approved size, design and make, having 6mm thick acrylic non glare base plate of the approved colour and non glare acrylic cut out symbols and upper case Sans Serif letters of 12mm height, raised 3mm above base plate and Grade 2/ Grade 1 Braille to be integral with the sign face and be raised 0.5mm above base plate. The map to be installed at the specified location as per accessibility standards, shall be oriented to the position of the viewer and to be installed at a height of 800 mm from the finished ground/ floor level and using the necessary hardware specified by the manufacturer and to be installed up to the satisfaction of the engineer in charge	As directed by Engineer-in-charge	No.	20790	6237
1860	PWD persons	51.67	RD	Directional signage Design, supply, fabrication and fixing acrylic multilingual Braille (raised dots) directional signboards of size 6" x 9" designed as per accessibility standards and having 4mm thick acrylic base plate with Upper Case San Serif words made of white acrylic non glare cut out letters of height 15mm raised not less than 0.8mm above base plate and the equivalent word written in Hindi with Devnagri non glare acrylic letters of height 15mm raised not less than 0.8mm above base plate and having a non glare acrylic cut arrow pointing in the required direction. Each signboard to be fixed as per manufacturers specifications on the wall at the approved location and at a height of 1200mm from FFL and as per the directions by the engineer in charge.	As directed by Engineer-in-charge	No.	1633	490

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1861	PWD persons	51.68		Floor Directories Providing and fixing acrylic multilingual Braille (raised dots)ADA compliant modular floor directories system on all floors of size1.5' x 2' , showing the floor plan and the list of rooms on that floor, to be installed on each floor near the staircase, designed as per standards and having 4mm thick blue acrylic base plate with Upper Case San Serif words and symbols made of white acrylic non glare cut out letters of height 20mm raised not less than 0.8mm above base plate and the equivalent word/s written in Hindi with Devnagri non glare imported acrylic letters of height 15mm raised not less than 0.8mm above base plate. Grade 2/ Grade 1 Braille to be integral with the sign face and be raised 0.5mm above base plate. Each directory to be fixed as per manufacturers specifications on the wall at the approved location at a height of 1200mm from FFL and as per the directions by the engineer in charge.	As directed by Engineer-in-charge	No.	17418	5225
1862	PWD persons	51.69		Providing an ADA compliant Disability Service Desk having a lowered portion (800mm from FFL) and leg space of 450 mm, having the approved design and of the approved make as per manufacturers specifications	As directed by Engineer-in-charge	No.	22000	6600
1863	PWD persons	51.70		Providing and fixing SS-304 studs having 35mm dia. of the approved brand and make inside the building on all floors in corridors, lobbies level differences etc. as per accessibility standards and as per the installation instructions prescribed by the manufacturer, using the necessary adhesive including finishing work up to the satisfaction of the engineer in charge complete.	As directed by Engineer-in-charge	No.	59	17
1864	PWD persons	51.71		Providing and fixing SS-304 strips of size 280mm x 35mm of the approved brand and make inside the building on all floors in corridors, lobbies level differences etc. as per accessibility standards and as per the installation instructions prescribed by the manufacturer, using the necessary adhesive including finishing work up to the satisfaction of the engineer in charge complete.	As directed by Engineer-in-charge	No.	293	87
1865	PWD persons	51.72		Providing and fixing Braille indicators for handrails of the approved design and make having Braille dots raised 0.5mm above base plate, to be installed at the specified locations as per the directions of the engineer in charge	As directed by Engineer-in-charge	No.	1500	450

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1866	PWD persons	51.73		Providing and fixing stainless steel (Grade 304) railing made of hollow tubes, channels, plates etc. including welding grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories and stainless steel dash fasteners, stainless steel bolts, etc. of the required size on the top of the floor of the side of waste slab with suitable arrangement as per approval of engineer in charge (for payment purpose, only the weight of the stainless steel members shall be considered excluding fixing accessories such as nut bolts, fasteners etc.). 50mm dia. pipe, 1.5mm thickness and weight 1.92 kg / r. metre	As directed by Engineer-in-charge	Kg	694	205
1867	PWD persons	51.74		ADA compliant modular Multilingual and tactile Emergency evacuation map of each floor indicating the current position of the viewer saying "YOU ARE HERE" of 15mm height letters in red with white background, indicating the emergency exits, locations of fire extinguishers etc. Signs shall have a solid header with the text "EVACUATION PLAN" in contrasting uppercase letters no less than 3/4" in height. The size of the board shall be 2ft x 2ft and shall be installed at a height of 1200mm from FFL and shall be oriented to the position of the viewer as per the direction of the site engineer	As directed by Engineer-in-charge	No.	19750	5925
1868	PWD persons	51.75		Fire exit and floor identification signage as per manufacturer's specifications, ADA compliant and modular system	As directed by Engineer-in-charge	No.	7500	2250
1869	PWD persons	51.76		Supplying and installing of in position the signages " FIRE ORDER" it should contain the following matter on 3mm thick "Opaque" PVC foam board of computerized cut, PVC Non-reflective self adhesive vinyle painted foam board of 3' x 4'.Product to be ADA compliant and modular system.	As directed by Engineer-in-charge	No.	19780	5934
1870	PWD persons	51.77		Providing an emergency evacuation chair of the approved design, weight and loading capacity	As directed by Engineer-in-charge	No.	73500	22050
1871	PWD persons	51.78		Providing and fixing the reader of the approved brand and make as per the manufacturers specifications and as per the directions of the engineer in charge	As directed by Engineer-in-charge	No.	23100	6930

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1872	PWD persons	51.79		Providing and fixing the transmitter of the approved brand and make on each floor as per the manufacturers specifications and as per the directions of the engineer in charge	As directed by Engineer-in-charge	No.	3675	1100
1873	PWD persons	51.80		Providing and fixing SS Braille buttons in the elevator of the approved brand and make to be installed using the specified adhesive and as per the instructions given by the manufacturer	As directed by Engineer-in-charge	No.	189	56
1874	PWD persons	51.81		Providing and fixing of high intensity reflective conspicuity tape 25 to 50mm width, on edges of treads in staircase including, cutting, pasting etc. of make 3M or equivalent brand as per the direction of engineer in charge	As directed by Engineer-in-charge	Rmt	160	48
1875	PWD persons	51.82		Providing a folding wheelchair of Pioneer Surgicals Brand, model no. PS 809/ equivalent make as per the directions of the engineer in charge.	As directed by Engineer-in-charge	No.	8950	2685
1876	PWD persons	51.83		Design, supply, fabrication and fixing of SS, non glare Signage board (2 ft. x 2 ft.- 1 no.) for the accessible parking, as per the approved design and make, having 1.2mm thick SS non glare base plate and Grade 2/ Grade 1 Braille (raised dots)to be etched/ engraved and be raised 0.5mm above base plate and Upper Case San Serif words and Universal Accessibility Symbol to be etched/ engraved and signage to be installed at a height of 2100mm from the ground level using a post of MS hollow square section (50mm x 50mm) as per the installation procedure specified by the manufacturer and as per accessibility standards and up to the satisfaction of the engineer in charge.	As directed by Engineer-in-charge	No.	23100	6930

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1877	PWD persons	51.84		Design, supply, fabrication and fixing of SS, non glare multilingual Braille (raised dots) entrance signage (size 1 ft x 1 ft) as per the approved design and make, indicating the name of the building. Having 1.2mm thick SS non glare blue coloured base plate with the 'Universal Accessibility Symbol' and Upper case Sans Serif words of height 15mm engraved on it along with the equivalent word/ s written in Hindi using Devnagri script of height 15mm in white colour. Grade 2/ Grade 1 Braille to be etched/ engraved and be raised 0.5mm above base plate. The signage to be installed at the specified location on the compound wall near the site entrance gate installed at a height of 1200 mm from the finished ground/ floor level, using the necessary hardware specified by the manufacturer and to be installed up to the satisfaction of the engineer in charge.	As directed by Engineer-in-charge	No.	5969	1791
1878	PWD persons	51.85		Providing and laying in place 300mm x 300mm x 16mm cement tactile directional and warning tiles (for a person with visual impairment) of the approved brand and make and specified colour for outdoor floors such as footpath, courtyard, multimodal location etc. laid on 20mm thick base of cement mortar 1:4 (1 cement: 4 coarse sand) in all shapes and patterns including grouting the joints with white cement with matching pigments etc. complete as per direction of engineer in charge	As directed by Engineer-in-charge	Sqm	1550	465
1879	PWD persons	51.86		Providing and laying in place 300mm x 300mm x 9.8mm vitrified tactile warning and directional tiles of the approved brand, make and colour inside the buildings at in all corridors and lobbies, level differences etc. as per accessibility standards and as per the installation instructions prescribed by the manufacturer including zari making wherever required and finishing including grouting the joints with white cement with matching pigments etc. up to the satisfaction of the engineer in charge complete.	As directed by Engineer-in-charge	Sqm	2200	660



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1880	PWD persons	51.87		Design, supply, fabrication and fixing acrylic multilingual Braille (raised dots) signboards of size 6"x 9" for room titles, designed as per the drawings issued and having 4mm thick blue acrylic base plate with Upper Case San Serif words made of white acrylic non glare cut out letters of height 15mm raised not less than 0.8mm above base plate and the equivalent word/s written in Hindi with Devnagri non glare acrylic letters of height 15mm raised not less than 0.8mm above base plate. Grade 2/ Grade 1 Braille to be integral with the sign face and be raised 0.5mm above base plate.Each signboard to be fixed as per manufacturers specifications on the wall adjoining the respective room door at a height of 1200mm from FFL and as per the directions by the engineer in charge.	As directed by Engineer-in-charge	No.	1633	490
1881	PWD persons	51.88	BDM	Providing and fixing in place 300mm x 300mm x 3mm polyurethane stick on tactile directional tiles and warning tiles having beveled edges and of the approved brand, make and colour and conforming to ISO 23599: 2012 inside the building on all floors in corridors, lobbies , level differences as per accessibility standards and to be installed as per the installation instructions given by the manufacturer using butyl rubber adhesive and the hardware specified by the manufacturer, as per the direction of the engineer in charge complete.	As directed by Engineer-in-charge	No.	3545	1064
1882	PWD persons	51.89		Grab bars-Providing SS grab bars set for accessible toilets comprising of 4 nos. Grab bars as specified below.(1 nos. wing grab bar + 1 nos. L shaped grab bar + 2 nos. straight grab bars = 1 typical set) 27a) Swing grab bar (1 NOS) Providing a S.S. 304 SWING HANDICAP GRAB BAR - 700 mm and of DIA: 32MM and thickness 1.5mm of the roved brand and make. 27b) L Shaped grab bar (1 NOS) Providing S.S. 304 L SHAPED DISABLED GRAB BAR of IZE-600MM (H) X 600MM (D) and 32MM DIA. and thickness mm of the approved brand and make. 27c) Straight grab bar (2 NOS) Providing S.STEEL 304 GRAB RAIL (600 MM),32MM DIA. and thickness 1.5mm of the approved brand and make.	As directed by Engineer-in-charge	No.	19500	5850

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1883	PWD persons	51.90		Providing and Fixing Accessible Wayfinding and navigation signage systems - Providing and fixing in location as directed by Engineer in Charge, accessible modular wayfinding and navigational signage system comprising of ADA and Harmonised Guidelines compliant signage and wayfinding elements, in multilingual, tactile and braille format. Signage systems to be designed for entire building / complex under consideration	As directed by Engineer-in-charge	No.	85640	25692
1884	Doors and Windows	51.91	BDT	Providing & fixing factory-made steel door of Single leaf External Embossed Wood finish type with a.) frame of size 100x58 mm conforming to IS : 4351-2003 , 1.2 mm thick pre galvanized sheet with mitred and welded cones , frame stretches, hinge reinforcing plates , fixing plates and hardware mounting plates and Polyurethane foam infill b.) Shutter of thickness 46mm made of 0.8 mm thick slip coated pre galvanized steel sheet on both sides conforming to ASTM A527/ASTM A525, BS 2989 1994, IS 277 , Zinc coating 120 GSM . Lock formed panels with internal stiffeners of 3mm thick made of galvanized sheet, 3 mm thick hinge reinforcing hardware mounting plates and lock protection with Honey-comb craft paper infill of thickness 150 GSM of load bearing capacity 500 Kg/Sqm. c.) Finish: Powder coated surface finished with thermosetting polyurethane paint of Aliphatic grade of thickness 60-micron d.) Accessories: Min 8 Anchor fastener of HILTI make, min 3 SS Ball Bearing Butt Hinges of Dorset make, Dorset Mortise lock, SS Tower bolt of 200 mm size, Eye hole, Door stopper complete.	As directed by Engineer-in-charge	Sqm	6368	263

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1885	Doors and Windows	51.92	BDT	<p>Providing &amp; fixing factory-made steel door of Single leaf External Plain Wood finish type with a.) frame of size 100x58 mm conforming to IS : 4351-2003 , 1.2 mm thick pre galvanized sheet with mitred and welded cones , frame stretches, hinge reinforcing plates , fixing plates and hardware mounting plates and Polyurethane foam infill b.) Shutter of thickness 46mm made of 0.8 mm thick slip coated pre galvanized steel sheet on both sides conforming to ASTM A527/ASTM A525, BS 2989 1994, IS 277 , Zinc coating 120 GSM . Lock formed panels with internal stiffeners of 3mm thick made of galvanized sheet, 3 mm thick hinge reinforcing hardware mounting plates and lock protection with Honey-comb craft paper infill of thickness 150 GSM of load bearing capacity 500 Kg/Sqm. c.) Finish: Powder coated surface finished with thermosetting polyurethane paint of Aliphatic grade of thickness 60-micron d.) Accessories: Min 8 Anchor fastener of HILTI make, min 3 SS Ball Bearing Butt Hinges of Dorset make, Dorset Mortise lock, SS Tower bolt of 200 mm size, Eye hole, Door stopper complete.</p> <p>Sizes up to 1200 x2439 mm ☒</p>	As directed by Engineer-in-charge	Sqm	6080	263

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1886	Doors and Windows	51.93	BDT	Providing & fixing factory-made steel door of Single leaf External Plain Steel finish type with a.) frame of size 100x58 mm conforming to IS : 4351-2003 , 1.2 mm thick pre galvanized sheet with mitred and welded cones , frame stretches, hinge reinforcing plates , fixing plates and hardware mounting plates and Polyurethane foam infill b.) Shutter of thickness 46mm made of 0.8 mm thick slip coated pre galvanized steel sheet on both sides conforming to ASTM A527/ASTM A525, BS 2989 1994, IS 277 , Zinc coating 120 GSM . Lock formed panels with internal stiffeners of 3mm thick made of galvanized sheet, 3 mm thick hinge reinforcing hardware mounting plates and lock protection with Honey-comb craft paper infill of thickness 150 GSM of load bearing capacity 500 Kg/Sqm. c.) Finish: Powder coated surface finished with thermosetting polyurethane paint of Aliphatic grade of thickness 60-micron d.) Accessories: Min 8 Anchor fastener of HILTI make, min 3 SS Ball Bearing Butt Hinges of Dorset make, Dorset Mortise lock, SS Tower bolt of 200 mm size, Eye hole, Door stopper complete. ☒	As directed by Engineer-in-charge	Sqm	5790	263
1887	Doors and Windows	51.94	BDT	Providing & fixing factory-made steel door of Single leaf Internal Plain Wood finish type with a.) frame of size 100x58 mm conforming to IS : 4351-2003 , 1.2 mm thick pre galvanized sheet with mitred and welded cones , frame stretches, hinge reinforcing plates , fixing plates and hardware mounting plates and Polyurethane foam infill b.) Shutter of thickness 46mm made of 0.8 mm thick slip coated pre galvanized steel sheet on both sides conforming to ASTM A527/ASTM A525, BS 2989 1994, IS 277 , Zinc coating 120 GSM . Lock formed panels with internal stiffeners of 3mm thick made of galvanized sheet, 3 mm thick hinge reinforcing hardware mounting plates and lock protection with Honey-comb craft paper infill of thickness 150 GSM of load bearing capacity 500 Kg/Sqm. c.) Finish: Powder coated surface finished with thermosetting polyurethane paint of Aliphatic grade of thickness 60-micron d.) Accessories: Min 8 Anchor fastener of HILTI make, min 3 SS Ball Bearing Butt Hinges of Dorset make, Dorset cylindrical lock, SS Tower bolt of 200 mm size, Door stopper complete. ☒	As directed by Engineer-in-charge	Sqm	5509	263

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1888	Doors and Windows	51.95	BDT	Providing & fixing factory-made steel door of Single leaf Internal Plain Steel finish type with a.) frame of size 100x58 mm conforming to IS : 4351-2003 , 1.2 mm thick pre galvanized sheet with mitred and welded cones , frame stretches, hinge reinforcing plates , fixing plates and hardware mounting plates and Polyurethane foam infill b.) Shutter of thickness 46mm made of 0.8 mm thick slip coated pre galvanized steel sheet on both sides conforming to ASTM A527/ASTM A525, BS 2989 1994, IS 277 , Zinc coating 120 GSM . Lock formed panels with internal stiffeners of 3mm thick made of galvanized sheet, 3 mm thick hinge reinforcing hardware mounting plates and lock protection with Honey-comb craft paper infill of thickness 150 GSM of load bearing capacity 500 Kg/Sqm. c.) Finish: Powder coated surface finished with thermosetting polyurethane paint of Aliphatic grade of thickness 60-micron d.) Accessories: Min 8 Anchor fastener of HILTI make, min 3 SS Ball Bearing Butt Hinges of Dorset make, Dorset cylindrical lock, SS Tower bolt of 200 mm size, Door stopper complete.	As directed by Engineer-in-charge	Sqm	5211	263
1889	Doors and Windows	51.96	BDT	Providing & fixing factory-made Single leaf 2 hour fire rated door as per IS 3614 Part 2 & BS 476 Part 20 & 22, tested to UL 10 C and conforming to NFPA 80 , tested at NTL /CBRI/ARAI of Plain Steel finish type with a.) Frame of size 143x58 mm and thickness of 1.6 mm thick skin pass galvanized iron sheet (Conform to IS 277 ) formed to single or double rebate profile b.) Shutter of 46 mm thickness and constructed from 1.2 mm thick skin pas galvanized iron sheet (Conform to IS 277) infill Rockwool / Mineral wool/ Honey comb craft paper c.) Vision glass of 5mm thick clear/wired glass Circular or Rectangular d.) Finish : Primed with zinc phosphate stoving primer and finished with Polyurethane aliphatic grade or epoxy paint as required of thickness 60 micron e.) Accessories : Min 8 Anchor fastener of HILTI make, min 3 SS Ball Bearing Butt Hinges, Mortise sash lock with lever handle, Mortise dead bolt , Mortise latch , Door closer and Flush bolts complete.	As directed by Engineer-in-charge	Sqm	7236	263

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1890	Doors and Windows	51.97	BDT	Providing & fixing factory-made Single leaf 2 hour fire rated door as per IS 3614 Part 2 & BS 476 Part 20 & 22, tested to UL 10 C and conforming to NFPA 80 , tested at NTL /CBRI/ARAI of Plain Steel finish type with a.) Frame of size 143x58 mm and thickness of 1.6 mm thick skin pass galvanized iron sheet (Conform to IS 277 ) formed to single or double rebate profile b.) Shutter of 46 mm thickness and constructed from 1.2 mm thick skin pas galvanized iron sheet (Conform to IS 277) infill Rockwool / Mineral wool/ Honey comb craft paper c.) Vision glass of 5mm thick clear/wired glass Circular or Rectangular d.) Finish : Primed with zinc phosphate stoving primer and finished with Polyurethane aliphatic grade or epoxy paint as required of thickness 60 micron e.) Accessories : Min 8 Anchor fastener of HILTI make, min 3 SS Ball Bearing Butt Hinges, Mortise sash lock with lever handle, Mortise dead bolt , Mortise latch , Door closer , Panic bar and external trim lock and Flush bolts complete. ☒	As directed by Engineer-in-charge	Sqm	8686	263
1891	Doors and Windows	51.98	BDT	Providing & fixing factory-made Aluminum windows of aluminum alloy HE 9WP (6063 T5/T6), powder coating of jotun/AkzoNobel of 60 micron thickness a.) Glass: 5mm thick clear float of Saint Gobain / Asahi make b.) Mesh of SS Type 304 grade of .22 mm thickness c.) Accessories: EPDM (Ethylene Propylene Diene Monomer) Gasket , SS Screws , Aluminum cleats , Roller , Push handle , Fly mesh handle , Anti lifter , U guide glass and mesh shutter complete	As directed by Engineer-in-charge	Sqm	5471	385

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1892	Doors and Windows	51.99	BDT	Providing & fixing factory-made steel windows constructed of Skin Pass Galvanized Iron Sheet (as per IS 513 "D" Quality, Galvanized as per IS 277 with Hot Zinc Coating of 120 grams / Sq.Mtr& thickness of 0.6 mm) with a. ) Window Shutter of .6mm thick skin pass Galvanized Iron Sheet b.) Window Frames of .8m thick skin pass Galvanized Iron sheet of size 80mm X 45mm c.) Mullion : of 0.8mmthick skin pass Galvanized Iron sheet of size 80mm X 60mm d.) Vision Glass of 4mm clear float glass in rectangular shape. e.) Finish : Coated with Zinc Phosphate Primer or Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability f. ) MS Grill of 10 mm square MS bright bars g.) Accessories : SS Pin type Hinges — 1 Set; Polypropylene , Handle — 1, Friction Stay Powder Coated — 1, MS powder coated Tower bolt — 2 (Ethyl Propylene Diamine Monomer (EPDM) Should be used all around glass in shutter for fixing of glass); corner brackets — 4 (made of Polypropylene each per shutter and frame) complete	As directed by Engineer-in-charge	Sqm	6383	385
1893	Doors	51.100		Providing, supplying, fabricating and fixing panel of aluminium composite panel cladding in approved shape made out of 4 mm thick ACP sheet material consisting of 3mm thick FR grade mineral core following NBC part IV Fire and life safety (having 2 hours fire resistance in accordance to ASTM E119-12 and BS476 part 6 and 7 class O) sandwiched between two aluminium sheets (each 0.5 mm thick of AA 5005/AA3105 grade) The aluminium composite panel cladding sheet shall be coil coated with kynar 500 based PVDF/Lumiflon based fluopolymer resin (having 70:30 ratio of PVDF and acrylic) coating of approved colour and sg=hade on top face and polymer (service) coating of bottom face as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicon sealent, backer rods etc .overall weight of the ACP shall not be less than 7.5 kg/sqm)	As directed by Engineer-in-charge	Sqm	3870	1150

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1894	Plastering and Pointing	51.101	BDL	Providing internal cement plaster 25 mm thick in single coat using Ready to use wall plaster in cement mortar 1:4 to concrete, brick, stone surfaces in all positions including scaffolding and curing. Providing groove at joint of B.B. Masonry and concrete members complete. With Prior Approval of Concerned S.E.	As directed by engineer in charge	Square Meter	495	177
1895	Plastering and Pointing	51.102	BDL	Providing internal cement plaster 20mm thick in a single coat using Ready to use wall plaster to concrete, brick surfaces in all positions including scaffolding and curing. Providing groove at joint of B.B.Masonry and concrete members complete. a) cement ratio 1:5 With Prior Approval of Concerned S.E.	As directed by engineer in charge	Square Meter	405	162
1896	Plastering and Pointing	51.103	BDL	Providing internal cement plaster 20mm thick in a single coat using Ready to use wall plaster to concrete, brick surfaces in all positions including scaffolding and curing. Providing groove at joint of B.B.Masonry and concrete members complete. b) cement mortar 1:4 With Prior Approval of Concerned S.E.	As directed by engineer in charge	Square Meter	417	162
1897	Plastering and Pointing	51.104	BDL	Providing internal cement plaster 20mm thick in a single coat using Ready to use wall plaster to concrete, brick surfaces in all positions including scaffolding and curing. Providing groove at joint of B.B.Masonry and concrete members complete C ) cement mortar 1:3 With Prior Approval of Concerned S.E.	As directed by engineer in charge	Square Meter	429	162
1898	Plastering and Pointing	51.105	BDL	Providing internal cement plaster 20mm thick in a single coat using Ready to use wall plaster in cement mortar 1:3 to stone masonry surfaces in all positions including scaffolding and curing. Providing groove at joint of stone masonry and concrete members complete. With Prior Approval of Concerned S.E.	As directed by engineer in charge	Square Meter	429	162
1899	Plastering and Pointing	51.106	BDL	Providing internal cement plaster 12 mm thick in a single coat using Ready to use wall plaster to concrete or brick surface in all positions including scaffolding and curing complete. Providing groove at joint of B.B. Masonry and concrete members complete. a) cement ratio 1:5 With Prior Approval of Concerned S.E.	As directed by engineer in charge	Square Meter	213	80



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1900	Plastering and Pointing	51.107	BDL	Providing internal cement plaster 12 mm thick in a single coat using Ready to use wall plaster to concrete or brick surface in all positions including scaffolding and curing complete. Providing groove at joint of B.B. Masonry and concrete members complete. b) cement ratio 1:4 With Prior Approval of Concerned S.E.	As directed by engineer in charge	Square Meter	225	80
1901	Plastering and Pointing	51.108	BDL	Providing internal cement plaster 12 mm thick in a single coat using Ready to use wall plaster to concrete or brick surface in all positions including scaffolding and curing complete. Providing groove at joint of B.B. Masonry and concrete members complete. c) cement ratio 1:3 With Prior Approval of Concerned S.E.	As directed by engineer in charge	Square Meter	228	80
1902	Plastering and Pointing	51.109	BDL	Providing internal cement plaster 6 mm thick in a single coat using Ready to use wall plaster in cement mortar 1:3 to concrete surface in all positions including scaffolding and curing. Providing groove at joint of B.B.Masonry and concrete members complete. With Prior Approval of Concerned S.E.	As directed by engineer in charge	Square Meter	173	55
1903	Brick Masonary	51.110	BDG	Providing Autoclaved areated concrete block masonry of approved manufacture confirming to IS 2185 Part III 1984 of size 600 mm x 200mm and thickness 100,150, 200 or 250 mm using Ready to use BLOCK JOINT MORTAR1:6 in foundations and plinth of inner walls / external walls including bailing out water, striking joints on unexposed faces, racking out joints on exposed faces and watering complete.. With Prior Approval of Concerned S.E.	As directed by engineer in charge	Cubic Meter	6056	1216
1904	Iron Work	51.111	BDW	Providing and fixing 50mm diameter and 1.5 mm thick Stainless steel hand railing in S.S.304 Grade including fabricating ,fixtures, erecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete	As directed by Engineer Incharge	Running Metre	3250	1399

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
	water supply and sanitary	51.112	BDW	<p>Providing and installing bio digester unit based on DRDO technology made of fibre reinforced plastic (FRP) having composition and following technical specifications and including necessary pipe and accessories up to 3 meter length, excluding the necessary excavation for installing the bio digester.</p> <p>Percentage of fibre glass (glass content in fibre glass should be minimum 30%): -33.33%</p> <p>Percentage of polyester resin: - 66.67%</p> <p>Water absorption (as per ASTM):-0.30%</p> <p>Flammability as per ASTM</p> <p>Tensile strength:-115 MPA</p> <p>Specific Gravity at 25 degree centigrade 1.45</p> <p>Izod impact strength:-65KJ/M2</p> <p>Heat deflection/distort temperature:-65deg C</p> <p>Corrosion resistance (Non Corrosive) fitted with</p> <p>Inlet pipe size rigid PVC: -100mm</p> <p>Outlet pipe size rigid PVC:-80mm</p> <p>Gas outlet rigid PVC with Valve: 20mm</p> <p>Bacteria immobilization PVC mattes (on all partition)</p> <p>With DRDO TOT licensee and latest batch certificate(month &amp; year of supply) and capacity as below</p>				
1905		a		a) Up to 10 user size (1.0mx1.0mx0.70m), Capacity of biodigester:-700 liters, Area of top, bottom and side walls: - 4.80 sq.m, Area of partition walls: 1.40sq.m, Total weight of FRP: - 33.48 kg, Bacteria inoculums quantity: - 200 liters , Minimum thickness of side walls / top and bottom: 3mm, Number of inside partitions: - 3, Minimum thickness of partition wall: 3mm.	As directed by Engineer Incharge	No.	40565	4000
1906		b		b) Up to 15 user size (1.0mx1.0mx1.0m), Capacity of biodigester:-1000 liters, Area of top, bottom and side walls: - 6 sq.m, Area of partition walls: 2 sq.m, Total weight of frp: - 54 kg, Bacteria inoculums quantity: - 400 liters, Minimum thickness of side walls / top and bottom: 4mm, Number of inside partitions: - 3, Minimum thickness of partition wall: 3mm	As directed by Engineer Incharge	No.	68345	6800

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1907		c		c) Up to 25 user size (1.5mx1.0mx1.0m), Capacity of biodigester:-1500 liters, Area of top, bottom and side walls:- 8 sq.m, Area of partition walls: 2 sq.m, Total weight of frp: - 82.80 kg, Bacteria inoculums quantity: - 600 liters, Minimum thickness of side walls / top and bottom: 5mm, Number of inside partitions: - 3, Minimum thickness of partition wall: 3mm	As directed by Engineer Incharge	No.	93175	9300
1908		d		d) Up to 40 user size (2.0mx1.0mx1.0m), Capacity of biodigester:-2000 liters, Area of top, bottom and side walls: - 10 sq.m, Area of partition walls: 3 sq.m, Total weight of frp: - 106.20 kg, Bacteria inoculums quantity: - 600 liters, Minimum thickness of side walls / top and bottom: 5mm, Number of inside partitions: - 3, Minimum thickness of partition wall: 3mm	As directed by Engineer Incharge	No.	123978	12000
1909		e		e) Up to 60 user size (2.4mx1.25mx1m), Capacity of Biodigester:-3000 liters, Area of top, bottom and side walls: - 13.30 sq.m, Area of partition walls: 3.75sq.m, Total weight of FRP: - 139.95 kg, Bacteria inoculums quantity: - 1000 liters, Minimum thickness of side walls / top and bottom: 5mm, Number of inside partitions: - 3, Minimum thickness of partition wall: 3mm	As directed by Engineer Incharge	No.	163261	16000
1910		f		f) Up to 80 user size (2.7mx1.5mx1m), Capacity of Biodigester:-4000 liters, Area of top, bottom and side walls: - 16.50 sq.m, Area of partition walls: 4.50sq.m, Total weight of FRP: - 202.50 kg, Bacteria inoculums quantity: - 1400 liters, Minimum thickness of side walls / top and bottom: 6mm, Number of inside partitions: - 4, Minimum thickness of partition wall: 3mm	As directed by Engineer Incharge	No.	236232	23000
1911		g		g) Up to 100 user size (2.5mx2mx1m), Capacity of Biodigester:-5000 liters, Area of top, bottom and side walls: - 19.00 sq.m, Area of partition walls: 8.00sq.m, Total weight of FRP: - 248.40 kg, Bacteria inoculums quantity: - 1800 liters, Minimum thickness of side walls / top and bottom: 6mm, Number of inside partitions: - 4, Minimum thickness of partition wall: 3mm	As directed by Engineer Incharge	No.	290862	29000

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1912		h		h) Up to 150 user size (3.2mx2.0mx1.25m), Capacity of Biodigester:-8000 liters, Area of top, bottom and side walls: - 25.80 sq.m, Area of partition walls: 10.00sq.m, Total weight of FRP: - 397.08 kg, Bacteria inoculums quantity: - 3200 liters, Minimum thickness of side walls / top and bottom: 7mm, Number of inside partitions: - 4, Minimum thickness of partition wall: 4mm	As directed by Engineer Incharge	No.	466876	46000
1913		i		i) Up to 200 user size (4mx2.0mx1.25m), Capacity of Biodigester:-10000 liters, Area of top, bottom and side walls: - 31.00 sq.m, Area of partition walls: 10.00sq.m, Total weight of FRP: - 462.60 kg, Bacteria inoculums quantity: - 3400 liters, Minimum thickness of side walls / top and bottom: 7mm, Number of inside partitions: - 4, Minimum thickness of partition wall: 4mm	As directed by Engineer Incharge	No.	549936	54000
1914		j		j) Up to 300 user size (4.8mx2.0mx1.25m), Capacity of Biodigester:-12000 liters, Area of top, bottom and side walls: - 36.20 sq.m, Area of partition walls: 10.00sq.m, Total weight of FRP: - 593.28 kg, Bacteria inoculums quantity: - 4200 liters, Minimum thickness of side walls / top and bottom: 8mm, Number of inside partitions: - 4, Minimum thickness of partition wall: 4mm	As directed by Engineer Incharge	No.	689174	68000
1915		k		k) Up to 400 user size (5mx2.0mx1.5m), Capacity of Biodigester:-15000 liters, Area of top, bottom and side walls: - 41.00 sq.m, Area of partition walls: 12.00sq.m, Total weight of FRP: - 678.80 kg, Bacteria inoculums quantity: - 5200 liters, Minimum thickness of side walls / top and bottom: 8mm, Number of inside partitions: - 4, Minimum thickness of partition wall: 4mm	As directed by Engineer Incharge	No.	800153	80000
1916		l		l) Up to 500 user size (6mx2.0mx1.6m), Capacity of Biodigester:-20000 liters, Area of top, bottom and side walls: - 50.72 sq.m, Area of partition walls: 13.36sq.m, Total weight of FRP: - 917.86 kg, Bacteria inoculums quantity: - 7000 liters, Minimum thickness of side walls / top and bottom: 9 mm, Number of inside partitions: - 4, Minimum thickness of partition wall: 4mm	As directed by Engineer Incharge	No.	1081250	100000

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1917	water proofing	51.113	BDJ	Providing and laying Hyperplas Aluminium or equivalent polymeric multiple monolithic five layer water proofing flexible, pliable and high tensile strength membrane (3 kg/sqm) which is comprise of top with "V" shape embossed 40 micron Aluminium foil to bear thermal expansion and avoiding delamination & consist of centre core of 90 micron thick High Molecular High density Polyethylene film (HMHDPE) which is protected on both the side with polymeric mix. Applying the membrane by thermofusing to roof & parapet after applying thin film of hot blown bitumen 85/25 or 90/15 grade @ 1.2 kg/sqm maximum as per surface condition or Hyperplas primer @ 250 gms/sqm as per site condition on the surface to be treated with 10 cm overlapping including finishing etc. complete and covering guarantee of 7 years on stamp paper of Rs. 100/- and as directed by Engineer-in-charge. (Prior permission of S.E.in writing is necessary before inclusion of this item in estimate).	As directed by Engineer Incharge	Sqm	747	212
1918	water proofing	51.114	BDJ	Providing and laying Hyperplas standard or equivalent polymeric multiple monolithic five layer water proofing flexible, pliable and high tensile strength membrane (3 kg/sqm) & consist of centre core of 90 micron thick High Molecular High density Polyethylene film (HMHDPE) which is protected on both the side with polymeric mix. Applying the membrane by thermofusing to roof & parapet after applying thin film of hot blown bitumen 85/25 or 90/15 grade @ 1.2 kg/sqm maximum as per surface condition or Hyperplas primer @ 250 gms/sqm as per site condition on the surface to be treated with 10 cm overlapping including finishing etc. complete and covering guarantee of 7 years on stamp paper of Rs. 100/- and as directed by Engineer-in-charge. (Prior permission of S.E.in writing is necessary before inclusion of this item in estimate).	As directed by Engineer Incharge	Sqm	604	133

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1919	water proofing	51.115	BDJ	Providing and laying mechanical protective layer over water proofing membrane with cement screed plaster 1:5 after laying chicken mesh over membrane including curing etc. complete 20 mm thick with cost of chicken mesh etc. complete and covering 7 years guarantee on court stamp paper of Rs.100/- including necessary testing specified by Engineer (Prior permission of S.E. is necessary before inclusion of this item in estimate) (Note :- This item shall be executed over item no. 5 of BD-J Water Proofing)	As directed by Engineer Incharge	Sqm	286	120
1920	Plastering	51.116	BDL	Providing and applying a Silicon Base Water Repellent Stone Sealers, on Brick / Stone masonry / Concrete surfaces in Two coats by spraying. Including cleaning / sand blasting for removing dirt / cement mortar patches etc. by force water jet, wire brushing etc. complete.	As directed by Engineer Incharge	Sqm	512	
1921	Plastering	51.117	BDL	Providing internal / external 12 mm thick Ready Mix plaster confirming to IS:4031(Part-4) 1988 and IS 383-1970 in a single coat using Cement mortar of proportion 1:4 containing special type of polymer additives about 0.4%, to all type of surfaces in all positions including scaffolding and curing complete.	As directed by Engineer Incharge	Sqm	214	
1922	Plastering	51.118	BDL	Providing internal / external 20 mm thick Ready Mix plaster confirming to IS:4031(Part-4) 1988 and IS 383-1970 in a single coat using Cement mortar of proportion 1:4 containing special type of polymer additives about 0.4%, to all type of surfaces in all positions including scaffolding and curing complete	As directed by Engineer Incharge	Sqm	378	
1923	Brick Masonary	51.119	BGG	Providing brick masonry with interlock "Fourlock" bricks in retaining walls ,diaphragm wall ,compound wall ,plinth & partition wall etc of specified 150 mm thick including construction with interlock "Fourlock" brick, filling the hollow spaces with cementious grout material of proportion of C:M 1:6 using trap stone grit metal/artificial sand dusting off the finished brick masonry"Fourlock" bricks, surface,watering & curing etc complete. ( Including steel reinforcement of 8mm bar as strengthening bar in hollow spaces of fourlock bricks with cementious greet material )	As directed by Engineer Incharge	Sqm	1273	

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1924	Brick Masonary	51.120	BGG	Providing brick masonry with interlock "Fourlock" bricks in plinth & superstructure of specified 150 mm thick including construction with interlock "Fourlock" bricks,filling the hollow spaces with cementious grout material of proportion of C:M 1:6 using trap stone grit metal/artificial sand including dusting off the finished brick masonry surface,watering & curing etc complete. ( Excluding steel reinforcecment for strengthening )	As directed by Engineer Incharge	Sqm	1099	
1925	Brick Masonary	51.121	BGG	Providing brick masonry with interlock "Fourlock" bricks in retaining walls ,diaphragm wall ,compound wall ,plinth & partition wall etc of specified 100 mm thick including construction with interlock "Fourlock" brick, filling the hollow spaces with cementious grout material of proportion of C:M 1:6 using trap stone grit metal/artificial sand dusting off the finished brick masonry"Fourlock" bricks, surface,watering & curing etc complete. ( Including steel reinforcement of 8mm bar as strengthening bar in hollow spaces of fourlock bricks with cementious greet material )	As directed by Engineer Incharge	Sqm	1085	
1926	Brick Masonary	51.122	BGG	Providing brick masonry with interlock "Fourlock" bricks in plinth & superstructure of specified 100 mm thick including construction with interlock "Fourlock" bricks,filling the hollow spaces with cementious grout material of proportion of C:M 1:6 using trap stone grit metal/artificial sand including dusting off the finished brick masonry surface,watering & curing etc complete. ( Excluding steel reinforcecment for strengthening )	As directed by Engineer Incharge	Sqm	903	

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
<b>ROAD WORKS</b>								
1927	Rigid Pavement (New item)	51.123	RD	Construction of M-40 grade reinforced prestressed precast concrete panel of 200 mm thickness having size 4.5m x 3.5m or as per drawing, casting the panels as per approved design and drawing in factory or plant including cost of all materials, formwork, reinforcement, dowel bars, tie bars, chairs, lifting bolts, grout ports, labour and all necessary machineries which are required for prestressing the wires, preparing concrete mix as per job mix design (The minimum cement content for M40 grade of PPCP shall be 440 kg/cum of concrete), making slots in panels for fixing dowel bars, tie bars, and placing necessary reinforcement as per design and drawing, steam/curing for 28 days including lifting, transportating and placing the panels at the required position, line, level and alignment as directed by Enginner in Charge, with max 20% fly Ash ( Fly-ash upto 20% by weight of Cement) over a prepared sub base. including providing and fixing in position MS Plain dowel bars precoated with anticorrosive epoxy paint of required Dia. having 45 cms. length and at 30.00 cm. c/c lubricated for half length with bituminous paint and providing & fixing TMT Fe 500 tie bars 12 mm dia. 60 cm long at 75 cm c/c, handling, straightening, necessary cutting supported by TMT FE 500, chairs with proper alignment by using properly designed assembly of Bulkheads. Including, Grouting of base of the panels as well as dowel and tie slots in the panels, Providing contraction joints polysulphide sealent (Pouring grade) confirming to BS : 5212 - 1989 into groove of specified size and shape as per detailed drawing including fixing Polyethylene foam backer rod of required diameter (appaox. 25% larger than the initial 3 mm.to 4 mm. joint) overlaid with bond breaking tape as per detailed drawing. Item includes cleaning the joints with water jet / air compressor and allowing joint to become thoroughly dry before sealent is applied and applying primer.(A) Contraction and longitudinal joints (50 mm. deep x max. 6 mm wide)	As directed by Engineer in charge	Cubic Metre	11385	---



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1928	Road Furniture	51.124	RD	Providing and laying of Plastirib T or equivalent raised profile edge line marking (audible vibratory) with special hot applied thermoplastic road marking compound according to IRC 35 : 2015, Clause 7.7 with 2 mm thick base coat layer above that ribs profile size of length 40 mm x width 140 mm x height 6mm thick (Total 8 mm thick) at the distance of 250 mm between two ribs including reflectorizing glass beads @ 250 gm / sq. mtr. area. The minimum and maximum width of raised profile should be 150 mm. The thickness of 8 mm profil should be exclusive of surface applied glass beads. The finished surface to be exclusive of surface applied glass beads. The finished surface to be levelled, uniform and free from streaks and holes, to be applied on edge lines.	As directed by Engineer in charge	Square Metre	1009	27
1929	Road Furniture	51.125	RD	Providing and laying of Plastirib 2K or equivalent raised profile edge line marking (audible vibratory) with special 2 component cold applied road marking compound according to IRC 35 : 2015, Clause 7.7 with 2 mm thick base coat layer above that ribs profile size of length 40 mm x width 140 mm x height 6mm thick (Total 8 mm thick) at the distance of 500 mm between two ribs including reflectorizing glass beads @ 250 gm / sq. mtr. area. The minimum and maximum width of raised profile should be 150 mm. The thickness of 8 mm profil should be exclusive of surface applied glass beads. The finished surface to be exclusive of surface applied glass beads. The finished surface to be levelled, uniform and free from streaks and holes, to be applied on edge lines.	As directed by Engineer in charge	Square Metre	2629	27
1930	Road Furniture	51.126	RD	Providing and Laying of Rumble strips with Plastirib 2K, or equivalent 2 component cold plastic profiled material to give total width of 500 mm and height of 10 mm. Ramp provided to give width of 145 mm, width of ribs to be 55mm laid at centre to centre distance of 35 mm, with reflective glass beads @ 350 gm / sqm. The finished surface to be levelled, uniform and free from streaks and holes, to be applied on the edge lines, including surface cleaning and cost of all materials etc. complete.	As directed by Engineer in charge	Square Metre	3706	27

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1931	Road Furniture	51.127	RD	Supplying and fixing of Plastic body studs with two shanks and without shanks of SWAREFLEX or equivalent in yellow, red and white color made of ABS body with size 100*100*17.9 mm, having reflective panels of 34 special Swaro glass reflective elements embedded in plastic and 19 degrees tilted to provide the highest reflectivity. Having reflective panels in yellow, red and white plastic with yellow, red, white or green Swaro glass elements. The studs shall have a compressive strength test certificate of 25 tons in accordance with ASTM D 4280 and successfully passing retro reflectivity test as per EN 1463-1 and the road test EN 1463-2 from a reputed laboratory. The fixing of the road studs shall be done by using a recommended Two Component Epoxy. In addition two holes should be drilled in the depth of 50 mm on the road for the version with two shanks.	As directed by Engineer in charge	Number	477	27
1932	Road Furniture	51.128	RD	Supplying and fixing of Swareflex or equivalent Metal Road studs with shank, made of Die-cast Aluminum alloy molded body with the size of 100*100*19.8 mm, shank size 50mm, having reflective panels of 34 glass reflective elements embedded in plastic and 19 degrees tilted to provide the highest reflectivity having reflective panels in yellow, red and white plastic with yellow, red, white or green glass elements. The weight of Aluminum stud should be not less than 370 grams. The studs shall have a compressive strength test certificate of 40 tons in accordance with ASTM D 4280-04 and successfully passing retro reflectivity test as per EN 1463 part 1 & part 2, from a reputed international laboratory . The bidder shall attach a product warranty certificate against Breakage and loss of reflectivity from the manufacturer for 3 years from installation. The fixing of road studs shall be done by using a recommended Two Component Epoxy after drilling 60 mm hole on the road for the shank to go inside.	As directed by Engineer in charge	Number	562	27

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1933	Road Furniture	51.129	RD	Supplying and fixing of Plastic body of Swaro Warn or equivalent 184*81*60 mm, mounted on road side plastic guide posts at a height of 80cm to 100cm from the ground level and fixed on post with screws supplied with the Swaro warn product. Swaro Warn comes in white or blue color. Visual wildlife warning system deflecting the headlights of approaching vehicle towards Road side at Dusk or night for creating a visual warning fence for the wildlife to avoid the accidents of wild life. Confirming standards RVS 04.03.12. The Swaro Warn article 7178 can be used for all types of terrain.	As directed by Engineer in charge	Number	3446	27
1934	Road Sub Grade	51.130	RD	<b>Soil Stabilisation</b> -Stabilization of in-situ (existing pavement crust) or soil or otherwise sub-base course upto the required depth by cold in-situ recycling using chemical additives/otherwise: Providing pulverizing,spreading,milling and mixing of chemical additives at the rate of minimum 750 ml/cum require quantity as per job mix design in accordance with IRC37-2012.Cementitious additive @ rate of minimum 4% should be spread on the existing pavement using a mobile truck mounted containerized cement/additive spreader with microprocessor controlled weighing and spreading system.The additive spreader shall have variable working width sufficient to cover whole pavement lane.The in-situ stabilization process shall be carried out by a mobile and self propelled stabilizer / reclaimer of working width of 2.4 mt and with minimum engine horse power of 440 kw with a variable working depth of minimum 50 cm.The resultant stabilised mix then would be profiled to the required grade ,level and thickness using motor grader and the mix would be compacted using 20 tonne pad foot roller in combination with smooth whell roller to achieve desired proctor density as per IRC37-2012 and complete in all respects and curing with water as required including all materials ,labor and	As directed by Engineer in charge	Cubic Metre	3495	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1935	Road Maintainance	51.131	RD	<p>Rehabilitation of existing damaged asphalt pavement by, cold, in-situ, recycling process, using foam bitumen as binder and cement as filler, as per IRC 120 2015 / IRC 37 2012.</p> <p>A layer of 20 mm fresh aggregates to a thickness of 30 mm, or, as per design mix, would be pre-spread evenly, on the existing surface using paver / motor grader.</p> <p>1.00% cement by weight of mix shall be pre-spread on the layer of fresh aggregates using truck mounted cement spreader with computer-controlled spreader system of width 2.40 meters.</p> <p>The freshly laid aggregates, spreaded cement, and, a layer of existing damaged pavement shall be then pulverised and recycled in-situ by injecting 2% bitumen (VG30) as foam-bitumen to design depth using self-propelled 4 wheeled, cold recycler machine with working width of 2.4 m fitted with 440 KW engine.</p> <p>The machine shall have in-built bitumen heating unit and duel spray bar, for foaming the heated bitumen (VG30) and water spray bar. The built-in nozzles shall evenly spray both, foamed bitumen and water during the milling process.</p> <p>The resultant mix would then compact to required density by heavy roller, profiled by grader and further compacted by smooth roller and PTR.</p> <p>(This cold recycled surface shall be then covered with tack coat and bituminous concrete of 50mm thickness, cost of both to be accounted separately)</p>	As directed by Engineer in charge	Running Metre	6396	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1936	Road Safety	51.132	RD	Providing and erecting a Road Restraint system - <b>Roller System Barrier ETI Roller System</b> H1 & H2 comprising of post of hot dip galvanized steel of 139.8mm diameter (L-2200 and L-750 ) thickness 4.5 mm spaced with interval of 1 meter installed in to hardened road . Safety frame rail from sheet of 3.20mm thick are fixed to main posts, shock absorbing rollers 345 mm diameter and 480mm height made of polypropelene - EVA , post caps, locker , pipes and connection material. Distance between main post and short post shall be 500 mm. the height of upper edge rail is 960 mm. All steel parts( FRAME s235R equivalent SS400) and post S235JR shall be hot dip galvanized to protect against corrosion. The system shall be installed in accordance with the drawings and assembly instructions. etc. complete.	As directed by Engineer in charge	Running Metre	73618	---
1937	Road Surfacing Course	51.133	MORTH Section-515	Providing and laying <b>Stone Matrix Asphalt</b> with 100-120 TPH batch type hot mix plant producing an average output of 75 tonne per hour using crushed aggregate of specified grading premixed with bituminous binder @ 5.80 minimum percent of mix and filler, transporting the hot mix towards site, laying with hydrostatic paver finisher with sensor control to required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause no.515 etc. complete in all respects, IRC SP 79	MORTH Section-515	Cubic Metre	9283	---
1938	Road Maintainance	51.134	RD	<b>Milling</b> of existing bituminous surface to specified depth of bituminous layer including disposal of removed material with all lift and lead upto 1000 m etc complete. Using machine like Writgen (W100) or equivalent	As directed by Engineer in charge	Square Metre	40.70	---
1939	Road Maintainance	51.135	RD	Providing and applying low viscosity bitumen <b>emulsion RS1</b> for sealing cracks less than 3 mm wide or incipient fretting or disintegration in an existing bituminous surfacing.	As directed by Engineer in charge	Square Metre	29	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1940	Road Surfacing Course	51.136	MORTH Section-514	Providing and laying <b>Microsurfacing course</b> comprising of dry (A) fine aggregates conforming to Type III grading @12 Kg/Sqm. of Road Surface coverage of specification as per IRC SP 81, 2008 Polymer / latest modified cationic quick setting bitumen emulsion having 60% binder content and 3.6% polymer (B) @ 12.5% by weight of fine aggregate ordinary portland cement (C) @ 2% by weight of aggregate chemical additives (D) @1.5% by weight of fine aggregate and water as per requirement.	MORTH Section-514	Square Metre	173.00	---
1941	Road Maintainance	51.137	RD	Providing and laying a <b>Stress Absorbing Membrane Interlayer (SAMI)</b> / bitumen impregnated geotextile layer after cleaning the road surface, geotextile conforming to requirements of clause 703.3, laid over a tack coat with 1.05 kg per sqm of paving grade bitumen 80 - 100 penetration / emulsion as per requirement and as directed by Engineer in Charge.	As directed by Engineer in charge	Square Metre	110	---
1942	Road Maintainance	51.138	RD	Pot Hole filling with <b>Jet Patcher</b> -Repairs to potholes 50 mm upto 100 mm by using semidense bituminous concrete in cold mix by using emulsion including making the potholes /patches in regular shape and size. Removing loose pockets, Dewatering in potholes,tack coats of 25 Kg/10 Sq.Mt.with RS1 emulsion etc.by use of advanced jetpatching technology machine of approved make and specification having capacity 5.50 TO 8.00 cubic meters with auxillary engine with direct drive to heavy duty blower, Rotary Positive Displacement Blower with direct drive and separate airline silencer. (Capacity – 15 PSI, Flow rate 1370/cum/hr). cleaning as directed by Engineer – in-Charge etc. complete (Emulsion @ 5% by weight of mix )	As directed by Engineer in charge	Square Metre	1634	---
1943	Road Surfacing Course	51.139 a	MORTH 511	<b>Open Graded Premix Surfacing</b> - Providing and Laying OGC 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates premixed with bituminous binder transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction but <b>excluding prime / tack and Seal coat</b> . For Bitumen of specified grade-- <b>USING Batch mix type hot mix plant with SCADA, Paver and Vibratory roller( over BT Surface)</b> (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 511	Square Metre	128	4

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1944	Road Surfacing Course	51.139 b	MORTH 511	<b>Open Graded Premix Surfacing</b> - Providing and Laying OGC 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates premixed with bituminous binder transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction but <b>excluding prime / tack and Seal coat</b> . For Bitumen of specified grade-- <b>USING Batch mix type hot mix plant with SCADA, Paver and Vibratory roller ( Over MPM Surface)</b> (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 511	Square Metre	132	4

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
<b>DGE &amp; CD WORKS</b>								
1944	Bridge Maintenance	51.140	BR	Chipping of all loose and Spalling of concrete to bottom of slab, beams etc.(wherever required), cleaning of reinforcement, carrying out thorough sand blasting, application of anti-corrosive zinc rich epoxy primer to exposed reinforcement including cost of material, labour, equipment, tools, scaffolding etc. complete.	As directed by Engineer in charge	Sqm	490	--
1945	Bridge Maintenance	51.141	BR	Providing and applying epoxy bonding agent for bonding old to new concrete for structural members prior applying the epoxy mortar to the concrete surfaces etc complete.	As directed by Engineer in charge	Sqm	490	--
1946	Bridge Maintenance	51.142	BR	Providing and applying epoxy mortar of resin and hardner with Silica sand upto 20 mm thickness of Sika/Fosroc/Pidilite or its equivalent including proper wire brushing etc complete as per the direction of Site-In-Charge.	As directed by Engineer in charge	Sqm	4383	--
1947	Bridge Maintenance	51.143	BR	Charges for groove cutting of 15 mm x 15 mm deep along crack and sealing and refilling the same with epoxy mortar including cost of material, labour etc. complete	As directed by Engineer in charge	Rmt	434	--
1948	Bridge Maintenance	51.144	BR	Cleaning of rocker & roller bearing using high pressure water jet, free from rust scales, re-setting & greasing the bearings using graphite grease including cost of materials, labour etc., complete.	As directed by Engineer in charge	Per bearing	8675	--
1949	Bridge Maintenance	51.145	BR	Bearing cleaning and pier cap cleaning for the proper movement of bearing etc. complete including all tools and machineries scaffolding etc. complete as per the direction of Site in Charge.	As directed by Engineer in charge	No.	8945	--
1950	Bridge Maintenance	51.146	BR	Providing and applying "high strength, non shrink free flow grout material" i. e. micro concrete (like shrink comp or equivalent) having compressive strength as 400 Kg/sq.cm. including finishing the surface and curing for 07 days. Etc complete. The usage of this non shrink concrete with zero slump is to allow to occupy every free space leaving no voids, thereby producing dense concrete with proper bonding with concrete (The quoted rates to be inclusive of all materials, labours, tools & tackles, transportation, taxes etc complete) to be applied for foundation and strengthening of pier etc and as per the direction of Site-In-Charge. (The product like Ultratech/Rendroc (RGL) of FOSROC or its equivalent)	As directed by Engineer in charge	Cubic M.	65000	--



Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1951	Bridge Maintenance	51.147	BR	Providing applying Polymer modified cement mortar pointing to the stone masonry structure including chipping, cleaning, applying bonding agent, staggering, curing and all tools and tacks including safety etc. complete.	As directed by Engineer in charge	Sqm	1389	--
1952	Bridge Maintenance	51.148	BR	Grouting to the Dowel bars with epoxy of resin+hardner to ensure the proper fixing of dowel bars including all the machineries etc. complete, as per the direction of Site- In-Charge.	As directed by Engineer in charge	No.	403	--
1953	Bridge Maintenance	51.149	BR	Providing and applying waterproof coating to the concrete surface to resist entry of moisture and prevent growth of fungus etc. complete as per the direction of site in charge.	As directed by Engineer in charge	Sqm	97	--
1954	Bridge Maintenance	51.150	BR	Lifting of span and bearing locations by suitable hydraulic jacks connected by high pressure, rubber hoses to pump & removal of old exsting bearing ( Roller side only) As per Quotation	As directed by Engineer in charge	Span	175110	--
1955	Bridge Maintenance	51.151	BR	Strengthening structural elements by providing & fixing CARBON FIBER (Make Sika or BASF or FOSROC) Surface preparation: Grinding concrete substrate, cleaning it with wire brush removing oil, laitance if present, rounding sharp edges to min 25 mm radius etc. complete. Profiling: providing & Applying compatible Mbrace primer on prepared substrate, Filling the holes and uneven surface with high strength epoxy putty etc. complete IF Required. Wrapping: Providing & Applying first coat of Saturant, cutting the carbon fiber sheet to size, wrapping the fiber sheet to structural element at desired orientation using tamping roller to avoid any air voids etc. complete. Sand pasting: Providing & Applying second coat of Saturant after min. 12 hrs, rectify air voids if any paste the rive sand on it to make surface rough to take any further finishes (Mode of measurement: Per sq.mt of Mbrace CF 400 sheet applied and not surface area of Concrete application & Quantity will be measured including wastage) The rate includes all type of material,application,equipment & scaffolding etc complete. Rate is applicable for all height & level.	As directed by Engineer in charge	Sqm	5750	--

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1956	Bridge Maintenance	51.152	BR	Replacement of existing damaged Expansion joints by providing and laying of Strip Seal Expansion Joint System, including removal of existing damaged exp joints by dismantling of deck slab, wearing coat etc. and back filling of the recess up to final finish level with conc of grade M-35, complete as per M.O.R. T&H specification.	As directed by Engineer in charge	Rmt	17890.334	--
1957	Bridge Maintenance	51.153	BR	Providing Polymer modified cement Mortar treatment after removing of existing, clading, plaster, gunite & cleaning and preparing the surface. Applying Polymer cement bond coat and Polymer modified cement Mortar as per manufacturer specification up to 50 mm thick with 8% polymer by weight of cement to fill the all cavities & making protective cover plaster including shuttering	As directed by Engineer in charge	Sqm	5605	--
1958	Bridge Maintenance	51.154	BR	Providing, drilling and fixing Nipples for pressure injection grouting of polymer cement grout etc. complete	As directed by Engineer in charge	No.	239	--
1959	Bridge Maintenance	51.155	BR	Filling voids/honeycomb with high pressure injection grouting of Polymer Cement Grout (10% of Polymer by Weight of Cement)	As directed by Engineer in charge	Kg	195	--
1960	Bridge Maintenance	51.156	BR	Providing and laying in situ / ready mix M35 grade RCC jacketing work around the existing piers of bridges etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer with fine agregates of required specifications (Natural sand / VSI sand finely washed etc ), height of 8 to 10 meter)	As directed by Engineer in charge	No.	8565	--

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1961	Bridge cum Bhandara	51.157		<b>A) Precast BeB Panals</b> 1 Providing and fixing Precast M 25 grade Concrete curved Sqm 2967.00 section of 100 mm thick to serve as bandhara as per the standard drawing approved by department having elliptical shape with base upto 6m as per table attached to be casted in factory in suitable sections and transporting to site and erecting the same including all leads, lifts, labour and machinaries with finishing .Number of elements in which compled section is proposed to be cast shall be approved.Necessary equipments for placing giving support through turn bucle or similar arrangement to maintain its verticality till insitu joining..The total steel quantity is 75kg per cubic meter of concrete The method statement shall be prepared and got approved from engineer including cost of plasticizer and viscosity admixture.	As directed by Engineer in charge	Sqm	2967	
1962	Bridge cum Bhandara	51.158		<b>b) Hot Dip Galvanised Needle Gate</b> 1 Manufacturing with OAP & fabrication of hot dip galvanised needle gates - curved type of required size and Weight as per the detailed design and drawings with all material, Mild steel confirming to IS 2062, Rubber seal confirming to IS 4623 & Welding electrodes AWS E6013 for general weld joints. It includes all materials, Labour charges, machinery charges, 1km lead charges of transportation, loading and unloading charges of Gate parts at Site, Inspection & Quality control charges, Sand blasting,overhead charges of 10%, and all incidental charges including all duties, taxes, levies and insurance charges excluding GST	As directed by Engineer in charge	MT	166000	
1963	Bridge cum Bhandara	51.159		Providing and fabricating and fixing at site <b>hot dip galavanised structural steel work</b> in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted I bolted lwelded connections without connecting plates, braces etc. complete including all transporation , labour and all lift excluding GST	As directed by Engineer in charge	MT	110000	

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1964	Bridge cum Bhandara	51.160		<b>c) FRP Needle Gate</b> 1 Providing , supplying and fixing of FRP gates -needles in curved or straight shape in size required size and 60mm thick for the Bridge - cum- Bhandara .The gate/needles should withstand under minimum water pressure of 7.00 tonne. with interlocking arrangements, required rubber seals to arrest water leakage due to surface unevenness including FRP "C" channels at both side of gate of size 100 mm x 100 mm with 10 mm thick, with lifting eye bolts. And as per specifications mentioned in the Technical spectications and product features excluding GST	As directed by Engineer in charge	Sqm	13500	
1965	Bridge cum Bhandara	51.161		Providing and fixing <b>Sill beam in size 100 X100 mm with 10 mm thick</b> , in FRP material with lifting eye bolts. And as per specifications mentioned in the Technical spectications and product features excluding GST	As directed by Engineer in charge	Rmt	2400	

**MATERIAL RATES FOR SSR For Year 2019-2020**

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
<b>Building (Bd-A : Excavation)</b>			
1	Blasting Powder	Kg.	70
2	Detonator	No.	17
3	Fuse	No.	170
4	Nipple For Fastening Detenator	No.	43
5	Noble Dynamite	Kg.	107
6	Red Tape Safety Fuse	R.Mt.	11
7	Blasting Fuse (Fuse wire)	No.	16
<b>Building (Bd-C : Structural Steel Work)</b>			
1	M.S.screws etc. 35mm dia. and 75mm long (100nos.)	Per Box	120
2	Nut Bolts 16mm dia./Nails all size	Kg.	85
3	Nut Bolts washers 12mm dia. 45mm long	No.	14
4	Nut Bolts washers 12mm dia. 75mm long	No.	19
5	M.S. Locking Arrangement for gate	No.	740
<b>Building (Bd-F : Reinforcement Cement concrete)</b>			
1	Binding Wire	Kg.	80
2	Centering Oil	Ltr.	10
3	Plastic Cover Block	No.	2.5
4	R.C.C.Jali 50mm thick	Sq.Mt.	493.5
5	Plastizer (Rheobuild) 825 R Mt.	Ltr.	150
6	Concrete Spacer Block 15 mm	No.	2.5
7	Concrete Spacer Block 20 mm	No.	2.8
8	Concrete Spacer Block 25 mm	No.	3
9	Concrete Spacer Block 30 / 40 mm	No.	5
10	Anticorrrosive Primer Coat	Ltr.	152
11	Swaling Coat	Ltr.	132
12	PVC Coated GI Wire	L/M	189
13	Repairs to cut ends and damages with special liquid epoxy	L/M	105
14	Epoxy paint	Ltr	360
15	R.C.C.Jali 80mm thick	Sq.Mt.	735
<b>Building (Bd-G : Brick Work)</b>			
1	1st Class Bricks (Red)	No.	6.50
2	AAC Block 600x200x100 mm	No.	49
3	Jointing Mortar	Kg	18
4	Fly ash Bricks	No.	5
<b>Building (Bd-H : Stone Masonry)</b>			
1	Corner stone 38*20*30cm	No.	83
2	Khandakies	No.	73
3	Pin Header (Standard Size)	No.	54
<b>Building (Bd-I : Cement Concrete Stone Masonry)</b>			
1	Hollow Blocks C.C.0.2*0.2*0.4M	No.	38
2	Hollow Blocks C.C.0.1*0.2*0.4M	No.	32
3	Hollow Block C C 0.30 x 0.20 x 0.15	No.	40
4	Siporex Block 75x240x650 mm	No.	71
5	GBP Build Fast plus	Kg.	31
6	Siporex Block 100x240x650 mm	No.	78
7	Siporex Block 200x240x650 mm	No.	158
<b>Building (Bd-J : Water Proofing)</b>			

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
1	Bitumen (Compound)	Kg.	60
2	Brick bats	Cu.Mt.	700
3	Water proof compound I.S	Kg.	130
4	Tar Felt B.H.I.S.I.3mm thick	Sq.Mt.	84
5	Acrylic Polymer Modified waterproofing Powder	Kg.	153
6	Acrylic Polymer Modified Liquid	Ltr.	211
7	Fibre Glass Mesh	Sq.Mt.	68
8	Bitumen 85/25 Grade	Kg.	59
9	Bitumen 85/25 Grade Cold Primer	Kg.	42
10	Grit (Add Below 5.6)	Cmt	709
11	Bitumen Felt	Sqm	84
<b>Building (Bd-K : Expansion Joint)</b>			
1	Polydee-TP40 Primer	Kg.	505
2	Polydee-TP40 Primer	Kg.	505
3	Polydee-LM	Kg.	510
4	Polydee-LM 150mm width	Kg.	570
5	Bituflex Cloesdcell foam 30x30 mm	R.Mt.	61
6	AG 10 Granules	Kg.	22
7	Polydee-MC	Kg.	800
8	Polydee-41 sealant and polyseal	Kg.	770
9	Polydee-11	Kg.	1200
10	Bitumen Pad 25mm thick 1.20 x 1.20 Mtr	Smt.	905
<b>Building (Bd-L : Plastering and Pointing)</b>			
1	Neeru / Sanala	Kg.	5.00
2	White Putty (Cement)	Kg.	26
3	Texture Material	bags	1300
<b>Building (Bd-M : Paving,Flooring and Dado)</b>			
1	Rough Shahabad 25 to 30mm thick	Sq.Mt.	215
2	Rough Shahabad 40 to 45 mm thick	Sq.Mt.	250
3	Polished Shahabad 25 to 30mm thick	Sq.Mt.	248
4	Rough Shahabad 50 to 60mm thick	Sq.Mt.	296
5	Polished Shahabad 40 to 50mm thick For step	Sq.Mt.	400
6	Polished Shahabad Machine cut 25mm thick	Sq.Mt.	280
7	Polished Shahabad for step 25mm thick	Sq.Mt.	290
8	Tandoor Polished 25mm thick (Machine cut)	Sq.Mt.	349
9	Tandoor Polished 25mm thick (Hand Cut)	Sq.Mt.	297
10	Tandoor Polished for steps 25mm thick	Sq.Mt.	377
11	Black Kadappa (one side polish) (Machine cut) 25 mm thick	Sq.Mt.	410
12	Black Kadappa (one side polish) (Machine cut) 35mm thick	Sq.Mt.	460
13	Both Sides Polished Kadappa stone 25mm thick	Sq.Mt.	521
14	Kota stone (Machine cut) upto 25-30mm thick one	Sq.Mt.	512
15	Kota stone (Hand cut) upto 25-30mm thick one side polished	Sq.Mt.	477
16	Kota stone for step polished) upto 25mm thick (1.2*0.3M)	Sq.Mt.	525
17	Ceramic tiles 30*30cm	Sq.Mt.	480
18	Ceramic Antiskid Flooring Tiles 30 x 30 cm	Sq.Mt.	495
19	Ceramic Tiles for dado 30 cm x 30 cm	Sq.Mt.	480
20	Ceramic Tiles for dado 30 x 45 cm	Sq.Mt.	516
21	Heavy duty interlocking concrete block 60mm thick gray 300 kg/sq.cm.	Sq.Mt.	486
22	Heavy duty interlocking concrete block 60mm thick coloured 300kg/sq.cm	Sq.Mt.	578

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
23	Heavy duty interlocking concrete block 80mm thick gray 300kg/sq.cm	Sq.Mt.	635
24	Heavy duty interlocking concrete block 80mm thick coloured 300kg/sq.cm	Sq.Mt.	728
25	Heavy duty interlocking concrete block 80mm thick rubber mould glossy 400kg/sq.cm	Sq.Mt.	880
26	Heavy duty interlocking concrete block 40mm thick colour 200 kg/sq.cm	Sq.Mt.	486
27	Telephone Black Granite	Sq.Mt.	2436
28	Green marble	Sq.Mt.	990
29	Vitrified tiles Glossy Size 590 to 605 mm* 590 to 605 mm*8 to 10mm	Sq.Mt.	550
30	Vitrified matt finish - size 590 to 605 mm* 590 to 605 mm *8 to 10mm	Sq.Mt.	850
31	Vitrified rustic matt stone finish size 590 to 605mm *590 to 605mm*8 to 10mm	Sq.Mt.	850
32	Vertified stone effect finish size 590 to 605mm* 590 to 605mm * 8 to 10mm	Sq.Mt.	950
33	Calcet Powder	Kg.	49
34	Black Oxide powder	Kg.	115
35	Fevi Matt Chemical 10 Kg Bag	bags	662
36	Marble chips	Kg.	47
37	Heavy duty interlocking concrete block 60mm thick rubber mould glossy 400kg/sq.cm	Sq.Mt.	486
38	Tremix Treatment 100 mm thick	Sq.Mt.	72
39	Marble mosaic chequered tiles (gray)	Sq.Mt.	259
40	Colour cement	Kg.	15
41	Heavy Duty Designer come. tile for flooring	Sq.Mt.	845
42	Heavy Duty Designer come. tile for Steps	Sq.Mt.	925
43	PVC flooring	Sq.Mt.	332
44	Ceramic Tiles for dado 30 x 60 cm	Sq.Mt.	542
45	Marble (other than white makrana)	Sq.Mt.	990
46	Kota stone (Hand cut) upto 45-55mm thick one side polished	Sq.Mt.	580
47	<b>Vitrified matt finish - size 895 to 900 mm* 895 to 900 mm *10 to 12 mm</b>	<b>Sq.Mt.</b>	<b>1100</b>
<b>Building (Bd-N : Wood finish)</b>			
1	Bees wax	Kg.	150
2	Coal Tar	Kg.	68
3	Common Spirit	Ltr.	85
4	French Polish	Ltr.	187
5	Varnish	Ltr.	175
6	Malemaine Polish	Ltr.	350
7	C.C.T.W. Ballies 125 mm Diameter	R.Mt.	166
<b>Building (Bd-O : Oil Painting)</b>			
1	Oil enamel paint/flat/glossy paint(ready mix) (with I.S.I. Mark)	Ltr.	270
2	Synthetic paint (ready mix)	Ltr.	255
3	Catonic emulsion paint	Kg.	325
4	White oil paint 100ml pack tin	No.	40
5	Red Oxide paint	Ltr.	165
6	Cement paint	Kg.	62
7	Steel Primer	Ltr.	160
8	Primer for plaster surface	Ltr.	180
9	Putty	Kg.	28
10	Boiled linseed oil	Ltr.	80
11	Linseed oil double boiled	Ltr.	118
12	Terpentine	Ltr.	90

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
13	Wood Primer	Ltr.	130
14	Brush for lettering	No.	40
15	Brush for road marking 5cm	No.	95
16	Brush for marking road 8cm	No.	184
17	Brush for road marking 10cm	No.	220
18	Lustre paint	Ltr.	220
19	Textured Synthetic paint	Ltr.	230
20	White lead paint	Kg.	290
21	Birla wall care putty	Kg.	50
22	Aluminium Paint	Lit.	290
23	Plastic emulsion paint	Ltr.	305.00
24	Acrylic Emulsion Paint	Ltr.	210.00
25	Exterior Primer	Ltr.	123.00
26	Weather shield paint	Ltr.	205.00

**Building (Bd-P : Colour,white washing,distemping)**

1	Neel	Kg.	125
2	Oil bound distemper	Kg.	105
3	Red powder / Geru	Kg.	20
4	Saras	Kg.	64
5	Scrapping sand paper size (30 * 20cm)	No.	11
6	Dry distemper	Kg.	92
7	Chunam / White lime Powder	Kg.	16
8	paint Luster Paint	Ltr.	213
9	Roller Brush	No.	263
10	Royale Luxury Emulsion Paint	Ltr.	410

**Building (Bd-Q : Wood work)**

	Country Teak Wood	Cu.Mt.	99500
1	Ghana teak wood	Cu.Mt.	83000
2	Teak Wood planks above 2.5 m length	Cu.Mt.	88900
3	Teak wood bidding 1/2" * 1/2"	Rmt	20
4	T.W.Balli 100 mm dia	Rmt	172
5	Jungle wood (non teak) normal	Cu.Mt.	36700
6	Bamboo 25mm dia.(4.5 to 6m)	No.	22
7	Bamboo 50mm dia.	No.	24
8	Bamboo Matting 1.2*1.8m	Sq.Mt.	56
9	Ply wood 12mm thick	Sq.Mt.	436
10	Ply wood 6mm thick	Sq.Mt.	329
11	Mica laminate as per ISI 0.1 mm thick	Sq.Mt	800
12	Face Veneel board 4 mm thick	Sq.Mt	450
13	Particle board B.W.P.Phinol bond 12mm thick	Sq.Mt.	350
14	Particle board B.W.P.Phinol bond 19 mm thick	Sq.Mt.	600
15	Formica 1.5 mm thick	Sq.Mt	950
16	Tower bolt brass oxidised 10 mm dia length 150 mm	No	192
17	Ferical	Kg	197
18	Ply wood 18mm thick Commercial	Sq.Mt.	850
19	Teak wood battens 50 * 25mm	Cu.Mt.	58111
20	Teak wood batten 25 mm * 12 mm	Cu.Mt.	58111
21	Veneer 3.5 to 4 mm thick	Sq.mt.	470
22	Alluminium rod 25mm dia	Rmt.	60

**Building (Bd-R : Roofing and ceiling)**

1	A.C.Corrugated sheet 6mm thick	Sq.Mt.	120
2	A.C.Sheet ridge	Pair	275



Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
3	A.C.Sheet plain 4mm thick	Sq.Mt.	195
4	G.C.I. Sheet (Corrugated) 22 BWG	M.T.	62763
5	G.C.I. Sheet (Corrugated) 24 BWG	M.T.	62763
6	G.I. Sheet (plain) 22 BWG	Sq.Mt.	395
7	G.I. Sheet (plain) 24 BWG	Sq.Mt.	315
8	G.I.Washers	Kg.	99
9	G.I. J or L hooks 6 mm dia.	No.	7
10	Nails iron all size	Kg.	80
11	Mangalore tiles class AA	No.	18
12	Mangalore Ridge / Hip tiles	No.	32
13	Mangalore Glass tiles	No.	370
14	Mangalore Pattern cowl Ventilator	No.	235
15	G.I. Pre coated trapezoidal 0.50 mm thick roof Metallic Coloured Sheet	Sq.Mt.	700
16	G.I. Pre coated Ridge Sheet	R.Mt.	500
17	Gypsum powder	Kg.	18.00
18	Aluminium Alloy plate 2mm thick	Sq.Mt.	1325
19	Aluminium sheeting fixed with encapsuled lens type reflective sheeting including 2% towards lettering , cost of angle iron, cost of drilling holes , nuts, bolts etc. and signs as applicable.	Kg.	155
20	Plaster Of Paris	bags	220
21	Decorative Board of Fibrous Plaster of Paris 12 to 15 mm	Sq.Mt.	365
22	Acoustic Board 12 mm thick	Sq.Mt.	212
23	Gypsum Board 12.5 mm thick	Sq.Mt.	195
24	UPVC 3 layer trapezoidal 2.00 mm sheet	Sq.Mt.	805
25	Light weight calcium silicate tile of size 595 x 595 mm of texture spin stone / cosmos / plain / Glode fine fissured.	Sq.Mt.	955
26	Bioguard Board 16 mm	Sq.Mt.	965
27	Ultima tile	Sq.Mt.	1188
28	Optra tile	Sq.Mt.	1550
29	Proflex Sheet 1 mm	Kg.	65
30	Sky light 2 mm thick	Kg.	1255
31	Hanger rod 4mm thick	No.	10
32	level Adjustment clip size 85x30x0.8mm	No.	10
33	Dash fastener 12.5mm dia 50mm long	No.	50
34	Soffit cleat 25mmx35mmx1.60mm	No.	5.5
35	Wooden Screws with plastic rawl plugs 35mmx8mm	No.	1.00
36	Light weight calcium silicate tiles of size 595x595mm of texture Spintone for Tegular edge ceiling	No.	1120
37	Plain Zinc Sheet	Sq.Mt.	230
38	UPVC ridge/hip tiles	No.	350
39	Hanger wire (2.68 mm dia), 1.82 m long	No.	18
40	Dune edge tiles	Sq.Mt.	855
41	Fine fissured edge tiles	Sq.Mt.	706
42	Turbo ventilator 24"	No.	8090
43	Tarat 36" width ( Gunny Cloth)	R.Mt.	33
44	Wire glass	Sq.Mt.	600
45	Fire wood	Quintal	339
46	Precoated Galvanised Steel Plain Sheet	Smt	919
47	Connecting clip for supports	No.	6
48	Dry wall screws 25 mm	No.	3
49	Jointing Compound	Kg.	44
50	Jointing Tape	Rmt.	3.0
51	Mineral Fibre board 600 x 600 mm	Sq.Mt.	900.0

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
52	Perimeter Channel 80 x 8 mm	Kg.	184.0
53	Screws 1 1/2"	No.	0.7
54	Screws 1/2"	No.	0.6
55	Rawal Plug	No.	0.9
55	Plain Zinc Sheet 0.50 mm thick	Sq.mt.	580.0
<b>Building (Bd-T : Doors and windows)</b>			
1	Aldrop 300*16mm Chromium Plated	No.	164
2	Aldrop Iron Oxidise 300*16mm	No.	135
3	Aldrop Stainless steel 300*16mm	No.	355
4	Handle 125mm M.S. Chromium Plated	No.	65
5	Handle 150mm Brass Chromium plated (Rounded Shape)	No.	259
6	Handle Alluminium 125 mm	No.	59
7	Iron hinges chromium plated 125mm	No.	59
8	But Hinges Alluminium 125mm	No.	65
9	G.I.Screw 50mm	Doz.	22
10	G.I.Screw 25mm	Doz.	12
11	Stainless Steel Hinges - 125mm 14 gauge (Heavy	No.	65
12	Tower bolt Aluminium 10mm dia.length 250mm	No.	79
13	Tower bolt Aluminium 10mm dia.length 200mm	No.	65
14	Tower bolt M.S. Chromium plated 10mm dia,length 300mm	No.	75
15	Tower bolt M.S. Chromium plated 10mm dia,length 200mm	No.	69
16	Cold Rolled Steel Hollow Section Door frame 1829*610mm	No.	1600
18	Aluminium stay 25cm	No.	61
19	Aluminium stay 30cm	No.	70
20	Jali fly proof	Sq.Mt.	204
21	Jali chicken mesh	Sq.Mt.	49
22	Jali welded mesh 25*25* 13 Guage	Sq.Mt.	150
23	Jali welded mesh 25*25* 11 Guage	Sq.Mt.	252
24	Jali welded mesh 50*25 13 Guage	Sq.Mt.	175
25	Jali welded mesh 50*25 11 Guage	Sq.Mt.	315
26	Hold fast Iron 300*40*5mm	No.	59
27	Sliding Door Bolt Stainless Steel 12mm dia. 250mm length	No.	90
28	Glass plain 3mm	Sq.Mt.	320
29	Glass plain 5mm	Sq.Mt.	446
30	Glass obscured (bajara) 5mm	Sq.Mt.	485
31	G.I. Nut Bolt	Kg.	115
32	Housing box to rolling shutter	Sq.Mt.	1312
33	Mechanical Gear For Rolling Shutter	No.	2082
34	Mortice lock superior	No.	765
35	Solid Core commercial shutter 30mm thick phenol bonded with face veneer 3 mm thick both side	Sq.Mt.	858
36	Iron washer 12mm to 16mm	No.	1
37	Aluminium Section	Kg.	180
38	Nylon / PVC Gasket	R.Mt.	26
39	Alluminium Screw 32 x 6 mm, 25 x 6 mm	Doz.	22
40	Concealed locking arrangement of 100 mm length for sliding window	No.	111
41	Alluminium Grill 7.50 mm thick	Sq.Mt.	1142
42	Hydraulic floor spring heavy duty ( 150 Kg capacity) ISI mark	No.	1100
43	Iron Oxidized sliding door bolt 200 mm length, 12 mm	No.	73
44	Powder and Chemicals for colour anodizing process of alluminium sections	Kg.	39

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
45	Lock for Sliding Shutter	No.	125
46	All Bearing Roller	No.	93
47	All Frame Rail Angle	Kg.	206
48	Welding Electrodes	No.	4.5
49	C.R.C. Sheet	Sq.Mt.	560
50	Abstrone Butadyne Styrene (ABS) Door Shutter including Transportation	No.	635
51	Puff Insulation 35-40 Kg/Cumt. Density	Kg.	273
52	PVC Door Shutter 34 mm thick Factory Made Shutter	Sq.Mt.	3898
53	FRP Door Shutter 30 mm thick Factory Made Shutter	Sq.Mt.	1245
54	FRP Door Shutter 35 mm thick Factory Made Shutter	Sq.Mt.	1349
55	Bison Pannel	Sq.Mt.	465
56	PVC factory made solid panel door shutter with stainless steel fixutres & fastening	Sq.Mt.	3794
57	PVC factory made flush door 30 mm with stainless steel fixutres & fastening	Sq.Mt.	3617
58	Sliding door bolt Chromium plated 250mm	No.	74
59	Acrylic Plain Sheet 3 mm	Sq.Mt.	847
60	Aldrop Stainless steel 300*16mm	No	355
61	Aldrop Stainless steel 250*16 mm	No	305
62	Handle 150mm Stainless Steel (Rounded Shape)	No	27
63	Handle 200mm Stainless Steel (Rounded Shape)	No	65
64	Stainless Steel Hinges - 100mm 14 gauge (Heavy Duty)	No	39
65	Stainless Steel Hinges - 125mm 14 gauge (Heavy Duty)	No	65
66	Housing box to rolling shutter	Smt	1310
67	Mechanical Gear For Rolling Shutter	No	2085
68	Door Stopper Stainless Steel	No	135
69	Tower Bolt Stainless Steel 200 mm	No.	80
70	Tower Bolt Stainless Steel 250 mm	No.	135
71	Sliding Door Bolt Stainless Steel 250 mm	No.	95
72	Handle Stainless Steel 100 mm	No.	40
73	Eye Hole Lens	No.	205
74	Rolling Shutter	Smt.	1805
75	Ply Wood	Smt.	395
76	Stainless steel hooks and eyes 200 mm	No.	70
77	Steel Window	Kg.	50
78	Powder Coating	Sq.Mt.	450
79	Rubber Lining	R.Mt.	25
80	Ply wood 9 mm thick	Sq.Mt.	410
81	Laminated board double 12mm thick	Sq.Mt.	800
82	Alluminium Section anodized	Kg.	220
83	Handle iron oxidised 150 mm	No.	55
84	Hinges iron oxidised 100 mm	No.	40
85	T. W. Particle board, both face laminated 12 mm	Smt.	400
86	Battens T.W. 70 x 45 mm	Cmt.	79000
87	Nuts and Bolts	Nos.	105
88	Plain FRP Sheet 22 B.W.G.	Smt.	2300
89	TW Runner (6" x 3")	Cmt.	79500
90	Alluminium Screw	Doz.	5
91	F Patti	Kg.	185
92	Teak wood planks above 2.5m length	Cu.Mt.	90000
93	Vision Panel	No.	215
94	Solid core shutter 35 mm thick with commercial veneer facing and phenol bonded	Sq.mt.	1188

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
95	Oil Paint	Ltr.	270
96	Acrylic Plain Sheet 2 mm thick	Sq.Mt.	700
97	Aluminium Sheet 24 B.W.G	Sq.mt.	383
98	Alluminium Section with Powder Coating	Kg.	205
99	Concealed lock	No.	115
100	Mosquito proof Nylone net	Sq.Mt.	214
101	Solid Core commercial shutter 30mm thick phenol bonded with face veneer 3 mm thick both side with bidding patty	Sq.Mt.	900

**Building (Bd-V : Water supply and sanitary fittings)**

1	G.I. Pipe 100mm dia. Medium type	R.Mt.	785
2	G.I. Pipe 100mm dia. Heavy type	R.Mt.	1040
3	G.I. Pipe 15mm dia. Medium type	R.Mt.	140
4	G.I. Pipe 15mm dia. Heavy type	R.Mt.	170
5	G.I. Pipe 20mm dia. Medium type	R.Mt.	162
6	G.I. Pipe 20mm dia. Heavy type	R.Mt.	195
7	G.I. Pipe 25mm dia. Medium type	R.Mt.	200
8	G.I. Pipe 25mm dia. Heavy type	R.Mt.	265
9	G.I. Pipe 32mm dia. Medium type	R.Mt.	245
10	G.I. Pipe 32mm dia. Heavy type	R.Mt.	285
11	G.I. Pipe 40mm dia. Medium type	R.Mt.	290
12	G.I. Pipe 40mm dia. Heavy type	R.Mt.	335
13	G.I. Pipe 50mm dia. Medium type	R.Mt.	392
14	G.I. Pipe 50mm dia. Heavy type	R.Mt.	455
15	G.I. Pipe 65mm dia. Medium type	R.Mt.	484
16	G.I. Pipe 65mm dia. Heavy type	R.Mt.	575
17	G.I. Pipe 80mm dia. Medium type	R.Mt.	605
18	G.I. Pipe 80mm dia. Heavy type	R.Mt.	775
19	PVC Nahani Trap 75 mm	No.	110
20	G.I.Clamps 100mm to 150mm	No.	22
21	PVC Nahani Trap 150 mm	No.	132
22	G.I.Clamps 12mm to 32mm	No.	12
23	G.I.Clamps 40mm to 80mm	No.	14
24	Anglo Indian W.C. Pan Colour	No.	1026
25	G.I.Fixtures	Kg.	85
26	P.V.C. Cowl 100 mm	No.	45
27	G.I.Screws 30mm	No.	2
28	G.I.Screws 40mm	No.	3
29	G.I.Union 25mm dia.	No.	90
30	Gully trap cover with frame	No.	555
31	Gun Metal stop tap with crutch wheel 20mm	No.	465
32	Gun metal stop tap with crutch wheel 25mm	No.	745
33	Gun metal stop tap with crutch wheel 15mm	No.	340
34	Gun metal stop tap with crutch wheel 20mm	No.	605
35	C.I.Bend 75mm dia.	No.	260
36	C.I.Bend 100mm dia.	No.	312
37	C.I.Bip tap 12mm	No.	95
38	C.I.Grating 150mm dia.	No.	115
39	C.I.Grating 100mm dia.	No.	65
40	C.I.Grating 75mm dia.	No.	32
41	C.I.Brackets	Pair	115
42	C.I.Collers 100mm dia.	No.	315
43	C.I.Copllers 75mm dia.	No.	222
44	C.I.Cover 45*30 cm with frame	No.	555
45	C.I.Cowl / Vent 100mm dia.	No.	315

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
46	C.I.Cowl / Vent 150mm dia.	No.	645
47	C.I.Cowl / Vent 75mm dia.	No.	250
48	C.I.Hinged Cover with frame	No.	580
49	C.I.Man hole cover 50 kg.	No.	3625
50	C.I.Man hole cover 75 kg.	No.	5335
51	C.I.Man hole cover 100 kg.	No.	6865
52	C.I.Man hole cover 175 kg.Heavy (0.9*0.45m)	No.	12500
53	C.I.Nahani trap 100mm dia.(375mm long)	No.	435
54	C.I.Nahani trap 75 to 80mm dia.(375mm long)	No.	320
55	C.I.100*75*300 long arm (wt. 6kg)nahani trap	No.	985
56	C.I.Soil pipe 100mm dia.	R.Mt.	860
57	C.I.Soil pipe 150mm dia.	R.Mt.	1625
58	C.I,Soil pipe 75 to 80mm dia.	R.Mt.	705
59	C.I.Shoe 75 mm dia.	No.	260
60	C.I. Shoe 100 mm dia.	No.	365
61	C.I.Shoe 150mm	No.	515
62	Ball cock 15mm dia.P.V.C.FLOAT	No.	285
63	Ball cock 25mm dia.P.V.C.FLOAT	No.	555
64	Ball cock 40mm dia.P.V.C.FLOAT	No.	555
65	Ball cock 50mm dia.P.V.C.FLOAT	No.	1905
66	Bib cock stop tap brass heavy 15mm	No.	390
67	Bib cock stop tap brass heavy 20mm	No.	590
68	Bib cock stop tap brass heavy 25mm	No.	855
69	Bib tap 12mm brass medium	No.	245
70	Colour wash hand basin 55*40cm	No.	1285
71	Colour wash hand basin 63*45cm	No.	1330
72	White glazed wash basin 45*30cm	No.	1105
73	White glazed wash hand basin 55*50cm	No.	1555
74	P.V.C. flexible Waste Pipe 32 mm dia	No.	45
75	White Glazed Wash Hand Basin 63 x 45 cm	No.	2005
76	Sink white glazed 45*20*30cm	No.	705
77	Pedestal for wash basin (standard size)	No.	1955
78	C.C.Septic tank 0.9m dia.(2.5m long)	No.	7775
79	C.C.Septic tank 1.20m dia.(2.5m long)	No.	10150
80	C.I.Steps for manhole	No.	509
81	C.I.Cover with frame (Gully trap)	No.	195
82	C.I.Plug Bend 150MM dia.	No.	1085
83	Clamp for G.I.pipe 25mm	No.	12
84	Colour European type W.C.Pan	No.	4305
85	European type glazed W.C.pan	No.	4305
86	W.C.PAN Coloured glazed 64CM.(Orissa)	No.	2310
87	W.C.PAN White glazed 58 CM.Indian	No.	2255
88	W.C.PAN White glazed 57.50 CM (Orissa)	No.	905
89	Fibre flushing tank for W.C.	No.	675
90	Flushing tank automatic Urinal 10ltr. C.I.	No.	882
91	Flushing tank automatic Urinal 5ltr. (P.V.C.)	No.	655
92	Low level flush pr. St. 10ltr.	No.	1175
93	Flat back Urinal	No.	1355
94	Stall Type Urinal	No.	4010
95	Lipped type Urinal	No.	560
96	Coloured glazed full stall Urinal	No.	4020
97	Bleaching Powder	Kg.	65
98	Potassium Permanganate	Kg.	357
99	Nylon Brush	No.	55
100	Duster	No.	45
101	Plastic Bucket	No.	115

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
102	Coir	Kg.	58
103	Gunny Cloth	R.Mt.	30
104	Kharata	No.	30
105	Wheel stop tap brass 15mm	No.	245
106	Wheel stop tap brass 20mm	No.	330
107	Wheel stop tap brass 25mm	No.	480
108	Socket brass for 32mm tap	No.	52
109	Socket brass for 40mm tap	No.	64
110	Socket brass for 50mm tap	No.	104
111	Socket brass for 65mm tap	No.	167
112	Socket for 100mm tap	No.	402
113	Socket for 15mm tap	No.	18
114	Socket for 20mm tap	No.	27
115	Socket for 25mm tap	No.	35
116	Socket for 32mm tap	No.	55
117	Socket for 40mm tap	No.	64
118	Socket for 50mm tap	No.	103
119	Socket for 65mm tap	No.	168
120	Socket for 80mm tap	No.	255
121	Span Yarn	No.	135
122	Strainer for 100mm	No.	2535
123	Strainer for 40mm	No.	478
124	Strainer for 50mm	No.	720
125	Strainer for 80mm	No.	1610
126	Strainer for 15mm	No.	148
127	Strainer for 20mm	No.	148
128	Strainer for 25mm	No.	280
129	Stone ware pipe 100mm dia.	R.Mt.	102
130	Stone ware pipe 150mm dia.	R.Mt.	147
131	Stone ware pipe 225mm dia.	R.Mt.	193
132	Stone ware glazed pipe half round 100mm dia.	R.Mt.	137
133	Stop tap brass with crunch wheel 15mm dia.	No.	108
134	Towel rod with clamps 16mm dia.	No.	177
135	Mirror 40*50cm. With plastic frame	No.	280
136	Brass T Thimble Socket 32mm dia.	Pair	100
137	Brass wheel stop tap 32mm dia.	No.	445
138	Brass wheel stop tap 40mm dia.	No.	580
139	Brass wheel stop tap 50mm dia.	No.	1097
140	Brass wheel stop tap 65mm dia.	No.	1437
141	Brass wheel stop tap 80mm dia.	No.	2392
142	Half turn flush cock 25mm dia.	No.	555
143	12mm flexible inlet pipe connection	No.	255
144	Bell mouth cover 100mm dia.	No.	75
145	Box chamber with lock 0.6*0.45m	No.	555
146	Brass nozzle pillar tap 12mm	No.	203
147	Black bakelite seat to european closer	No.	322
148	Concussion push button type gun metal tap 15 to 25mm dia.	No.	82
149	Coupling cast Iron 100mm dia.	No.	355
150	Coupling cast Iron 80mm dia.	No.	330
151	Chromium plated 12mm dia.bib cock	No.	75
152	C.I.Trap grating 15*10 cm	No.	75
153	C.I.Y junction 100mm dia.	No.	790
154	C.I.Y junction 150mm dia.	No.	1750
155	C.I.Y junction 75mm dia.	No.	570
156	Enameled bend 40mm dia.	No.	185

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
157	Ferrul for C.I.pipr 100mm	No.	148
158	White glazed foot rest chequred 25*10 cm	Pair	148
159	Half round earthware pipe 100mm(60cm long)	No.	100
160	Half round earthware pipe 150mm(60cm long)	No.	300
161	Jute Rope	Kg.	88
162	Half round chaina ware pipe 100mm(60cm long)	No.	100
163	Lead pipe 32mm dia.	R.Mt.	315
164	Mohagani seat with lid	No.	280
165	Mosquito proof coupling	No.	42
166	Non-return valve 15mm for water meter	No.	177
167	Non-return valve 25mm for water meter	No.	325
168	Non-return valve 20mm for water meter	No.	225
169	Piller tap 12mm dia.chromium plated heavy	No.	355
170	P.Trap and lead pipe upto 40mm dia.	No.	280
171	Rubber gasket (25, 28 and 20 cm)	R.Mt.	155
172	Rubber Incertion	Kg.	285
173	Rubberised adhesive	Ltr.	305
174	Salt glazed stone ware gully trap (150*150mm)	No.	92
175	Self project tap brass chromium plated 15mm	No.	18
176	Sewer trap	No.	655
177	Shower rose chromium plated brass 10cm	No.	255
178	P.V.C. pipe 15mm dia.10kg/cm2 pressure(class IV)	R.Mt.	28
179	P.V.C. pipe 20mm dia.10kg/cm2 pressure(class IV)	R.Mt.	45
180	P.V.C. pipe 25mm dia.10kg/cm2 pressure(class IV)	R.Mt.	65
181	P.V.C. pipe 32mm dia.10kg/cm2 pressure(class IV)	R.Mt.	95
182	P.V.C. pipe 40mm dia.10kg/cm2 pressure(class IV)	R.Mt.	145
183	P.V.C. pipe 50mm dia.10kg/cm2 pressure(class IV)	R.Mt.	227
184	P.V.C. pipe 60mm dia.10kg/cm2 pressure(class IV)	R.Mt.	317
185	P.V.C. pipe 75mm dia.4 kg/cm2 pressure(class II)	R.Mt.	195
186	P.V.C. 75 mm Soil Pipe 6 Kg/cm2 Pressure	R.Mt.	220
187	P.V.C. pipe 90mm dia.4 kg/cm2 pressure(class II)	R.Mt.	195
188	P.V.C.pipe 110mm dia.4kg/cm2 pressure (class II)	R.Mt.	280
189	P.V.C. 110 mm Rain Water Pipe 6Kg/cm2 Pressure	R.Mt.	195
190	P.V.C. 110 mm Soil Pipe 6 Kg/cm2 Pressure	R.Mt.	327
191	P.V.C.pipe 140mm dia.4kg/cm2 pressure (class II)	R.Mt.	458
192	P.V.C.pipe 160mm dia.4kg/cm2 pressure (class II)	No.	610
193	P.V.C.pipe 160mm dia.Soil Pipe	R.Mt.	620
194	P.V.C.pipe 160mm dia. Rain Water Pipe	R.Mt.	620
195	P.V.C.Socket 15mm dia.	No.	6
196	P.V.C.Socket 20mm dia.	No.	8
197	P.V.C.Socket 25mm dia.	No.	10
198	P.V.C.Socket 32mm dia.	No.	13
199	P.V.C.Socket 40mm dia.	No.	18
200	P.V.C.Socket 50mm dia.	No.	32
201	P.V.C.Socket 60mm dia.	No.	48
202	P.V.C.Flushing tank (12 ltr. Capacity)	No.	885
203	Flush valve 32mm dia.	No.	1355
204	Ferocret tank	Ltr.	9
205	Stainless Steel sink of size 600*510*200mm of nirali or equivalent make	No.	6700
206	C.P.pillar cock jaquar make continental (Cat.No. CON-011)	No.	600

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
207	C.P.pillar cock (ISI) jaquar make continental	No.	600
208	C.P.pillar cock long neck with aerator jaquar make continental (Cat.No. CON- 021)	No.	800
209	C.P.Bib cock (ISI) jaquar make continental (Cat.No. CON-037)	No.	575
210	C.P.Bib Cock long thread jaquar make continental (Cat.No. CON-039)	No.	575
211	C.P.2-way bib cock jaquar make continental (Cat.No. CON-041)	No.	800
212	C.P.bib cock with wall flange long thread jaquar make continental (Cat.No. CON- 047)	No.	590
213	C.P.Bib cock with nozzle jaquar make continental (Cat.No. CON-049)	No.	625
214	C.P.Angular stop cock jaquar make continental (Cat.No. CON-053)	No.	515
215	C.P.Angular stop cock long thread jaquar make continental (Cat.No. CON-055)	No.	1800
216	C.P.angular stop cock with wall flange jaquar make continental (Cat.No. CON- 059)	No.	545
217	C.P.central hole basin mixer without popup waste system with 450mm long braided hoses jaquar make continental (Cat.No. CON-167B)	No.	1965
218	C.P.wall mixer with telephone shower arrangement only but without telephone shower crutch jaquar make continental (Cat.No. CON-217)	No.	2395
219	C.p.wall mixer non-telephonic shower arrangement jaquar make continental (Cat.No. CON-219)	No.	2030
220	C.P.wall mixer(wall mounted model) with telephone shower arrangement only and with telephone shower crutch jaquar make continental (Cat.No. CON-267)	No.	2650
221	C.P.wall mixer with provision for overhead shower with 115mm long bend pipe and wall flange jaquar make continental (Cat.No. CON-273UPR)	No.	2700
222	C.P.sink mixer with swinging casted spout (wall mounted) jaquar make continental (Cat.No. CON-309)	No.	2100
223	C.P.sink mixer swinging spout (table mounted model) 450mm long braided hoses jaquar make continental (Cat.No. CON-309B)	No.	2100
224	C.P.sink cock with swinging casted spout jaquar make continental (Cat.No. CON- 347)	No.	1050
225	C.P.sink cock with raised 'J' shaped swinging casted spout (table mounted) jaquar make continental (Cat.No. CON- 359)	No.	1050
226	C.p.shower arm 190mm long light body with wall flange jaquar make continental (Cat. No. SHA - 477)	No.	310
227	C.P.Flush cock with wall flange 25mm with plain knob jaquar make continental (Cat.No. FLR 6081)	No.	1410
228	C.P.Towel rail 24" jaquar make continental (Cat. No. ACN 1111N )	No.	795
229	C.P.Towel ring square jaquar make continental (Cat. No. ACN 1121N )	No.	675
230	C.P.Soap dish hooker jaquar make continental (Cat. No. AKB 35731 )	No.	625
231	C.P.soap dish (polyurethane) jaquar make continental (Cat. No. AQN 7733 )	No.	810
232	C.P.Toilet paper holder jaquar make continental (Cat. No. AQ 7751 )	No.	795
233	C.P.Toilet rack 24"with lower hanger jaquar make continental (Cat. No. ACN 1181N )	No.	1785
234	C.P.Handshower (health faucet) 1m.PVC tube with wall hook jaquar make (Cat. No. ALD 563 )	No.	790
235	C.P.Pillar cock jaquar make queen's collection (quarter turn fitting) (Cat. No. QQT 7011 )	No.	1140
236	C.P.Bib cock with wall flange aqua make queen's collection (quarter turn fitting) (Cat. No. QQT7037 )	No.	1100



Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
237	C.P.2-way bib cock with wall flange aqua make queen's collection (quarter turn fitting) (Cat. No. QQT 7041 )	No.	1610
238	C.P.Angular stop cock with wall flange aqua make queen's collection (quarter turn fitting) (Cat. No. QQT 7053 )	No.	1030
239	C.P.central hole basin mixer with regular spout without popup waste system with 450mm long braided hoses jaquar make queen's collection (quarter turn fitting) (Cat. No. QQT 7167bB )	No.	2950
240	C.P.central hole basin mixer with regular spout with popup waste system with 450mm long braided hoses jaquar make queen's collection (quarter turn fitting) (Cat. No. QQT 7169b )	No.	2950
241	C.P.central hole basin mixer with small spout without popup waste system with 450mm long braided hoses jaquar make queen's collection (quarter turn fitting) (Cat. No. QQT 7171B)	No.	2650
242	C.P.wall mixer (wall mounted model) with telephonic shower arrangement only but without crutch jaquar make queen's collection (quarter turn filling) (Cat. No. QQT 7217 )	No.	2900
243	C.P.wall mixer non-telephonic shower system jaquar make queen's collection (quarter turn filling) (Cat. No. QQT 7219 )	No.	2950
244	C.P.wall mixer (wall mounted model) with telephonic shower arrangement only and with telephone shower crutch jaquar make queen's collection (quarter turn filling) (Cat. No. QQT 7267)	No.	3550
245	Hydraulic door closer	No.	1130
246	cPVC pipe 15mm dia.	R.Mt.	50
247	cPVC pipe 20mm dia.	R.Mt.	67
248	cPVC pipe 25mm dia.	R.Mt.	103
249	cPVC pipe 32mm dia.	R.Mt.	155
250	cPVC pipe 40mm dia.	R.Mt.	217
251	cPVC pipe 50mm dia.	R.Mt.	365
252	cPVC Coupling for 15mm dia.	No.	11
253	cPVC Coupling for 20mm dia.	No.	13
254	cPVC Coupling for 25mm dia.	No.	22
255	cPVC Coupling for 32mm dia.	No.	45
256	cPVC Coupling for 40mm dia.	No.	80
257	cPVC Coupling for 50mm dia.	No.	160
258	Elbow 90 Degree for 15mm dia.	No.	14
259	Elbow 90 Degree for 20mm dia.	No.	16
260	Elbow 90 Degree for 25mm dia.	No.	32
261	Elbow 90 Degree for 32mm dia.	No.	70
262	Elbow 90 Degree for 40mm dia.	No.	130
263	Elbow 90 Degree for 50mm dia.	No.	160
264	Tee for 15mm dia.	No.	18
265	Tee for 20mm dia.	No.	25
266	Tee for 25mm dia.	No.	40
267	Tee for 32mm dia.	No.	90
268	Tee for 40mm dia.	No.	155
269	Tee for 50mm dia.	No.	325
270	End cap for 15mm dia.	No.	8
271	End cap for 20mm dia.	No.	12
272	End cap for 25mm dia.	No.	17
273	End cap for 32mm dia.	No.	35
274	End cap for 40mm dia.	No.	51
275	End cap for 50mm dia.	No.	115
276	Ball cock for 15mm dia.	No.	90

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
277	Ball cock for 12mm dia.	No.	145
278	Ball cock for 25mm dia.	No.	265
279	Ball cock for 32mm dia.	No.	466
280	Ball cock for 40mm dia.	No.	727
281	Araldite adhesive	Kg	1130
282	Ball valves for 50mm dia.	No.	1290
283	Male adapter (Brass Threads) for 15mm dia.	No.	130
284	Male adapter (Brass Threads) for 20mm dia.	No.	166
285	Male adapter (Brass Threads) for 25mm dia.	No.	255
286	Male adapter (Brass Threads) for 32mm dia.	No.	519
287	Male adapter (Brass Threads) for 40mm dia.	No.	645
288	Male adapter (Brass Threads) for 50mm dia.	No.	1240
289	Male adapter (Plastic Threads) for 15mm dia.	No.	14
290	Male adapter (Plastic Threads) for 20mm dia.	No.	18
291	Male adapter (Plastic Threads) for 25mm dia.	No.	30
292	Male adapter (Plastic Threads) for 32mm dia.	No.	50
293	Male adapter (Plastic Threads) for 40mm dia.	No.	72
294	Male adapter (Plastic Threads) for 50mm dia.	No.	135
295	Female adapter (Brass Threads) for 15mm dia.	No.	125
296	Female adapter (Brass Threads) for 20mm dia.	No.	167
297	Female adapter (Brass Threads) for 25mm dia.	No.	252
298	Female adapter (Brass Threads) for 32mm dia.	No.	530
299	Female adapter (Brass Threads) for 40mm dia.	No.	592
300	Female adapter (Brass Threads) for 50mm dia.	No.	1135
301	Female adapter (Plastic Threads) for 15mm dia.	No.	17
302	Female adapter (Plastic Threads) for 20mm dia.	No.	25
303	Female adapter (Plastic Threads) for 25mm dia.	No.	37
304	Union for 15mm dia.	No.	75
305	Union for 20mm dia.	No.	90
306	Union for 25mm dia.	No.	106
307	Union for 32mm dia.	No.	142
308	Union for 40mm dia.	No.	232
309	Union for 50mm dia.	No.	410
310	Cross for 15mm dia.	No.	28
311	Cross for 20mm dia.	No.	57
312	Step over Bend 15mm dia.	No.	57
313	Step over Bend 20mm dia.	No.	90
314	Tee holder for 15mm dia.	No.	27
315	Tee holder for 32mm dia.	No.	82
316	End plug threaded for 15mm dia.	No.	12
317	R.C.C.Chamber cover with frame 90cm*45cm Heavy Duty 225kg	No.	3400
318	R.C.C.Chamber cover with frame 90cm*45cm Medium Duty 140kg	No.	2210
319	R.C.C.Chamber cover with frame 60cm*45cm Heavy Duty 160kg	No.	3010
320	R.C.C.Chamber cover with frame 60cm*45cm Medium Duty 100kg	No.	1860
321	I.S.I.Ferrul Connection 15mm dia.	No.	495
322	I.S.I.Ferrul Connection 20mm dia.	No.	792
323	I.S.I.Ferrul Connection 25mm dia.	No.	1350
324	I.S.I.Ferrul Connection 32mm dia.	No.	2250
325	I.S.I.Ferrul Connection 40mm dia.	No.	3225
326	I.S.I.Ferrul Connection 50mm dia.	No.	5450
327	Water meter 15 mm diameter	No.	1305
328	Water meter 20 mm diameter	No.	2155
329	Water meter 25 mm diameter	No.	3310

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
330	Water meter 40 mm diameter	No.	5575
331	Water meter 50 mm diameter	No.	7200
332	Water meter 80 mm diameter	No.	12235
333	Water meter 100 mm diameter	No.	17435
334	Non return Valve 40 mm diameter	No.	1507
335	Non return Valve 50 mm diameter	No.	2010
336	Non return Valve 80 mm diameter	No.	6115
337	Non return Valve 100 mm diameter	No.	11415
338	Colour Wash Hand Basin 0.45 x 0.30	No.	710
339	White Glaze Earth Sink 0.6 x 0.2 x 0.45	No.	1650
340	Clamp for G.I.pipe 200mm	No.	30
341	European type glazed W.C.pan 68cm	No.	2375
342	European white glazed earthen ware closet pan	No.	2375
343	P.V.C. Nahni Trap	R.Mt.	142
344	P.V.C. Connector. 15 mm dia	No.	60
345	Low level flushing cistern	No.	1020
346	Upvc sanitary pipes all 20 mm dia.	R.Mt.	85
347	Upvc sanitary pipes all 75 mm dia.	R.Mt.	202
348	Bib cock stop tap brass heavy 15mm	No.	792
349	Stainless Steel sink of size 610 x 460 x 200 mm of nitali or equivalent make	No.	9205
350	Upvc sanitary pipes all 63 mm dia.	R.Mt.	1385
351	W.C.PAN Colour glazed 57.50 CM (Orissa)	No.	1410
352	Pillar cock mixer & Angle cock	No.	755
353	Upvc sanitary pipes all 25 mm dia.	R.Mt.	370
354	Upvc sanitary pipes all 15 mm dia.	R.Mt.	180
355	Cement	bags	235
356	Upvc sanitary pipes all 40 mm dia.	R.Mt.	610
357	Upvc sanitary pipes all 50 mm dia.	R.Mt.	850
358	Stainless Steel sink of size 470 x 420 x 178 mm of nitali or equivalent make	No.	4750
359	Bib cock Long Arm	No.	278
360	Bottletrap wash basin 32 mm Cromium Plated	No.	1355
361	Upvc sanitary pipes all 32 mm dia.	R.Mt.	495
362	Hamp rope	Kg.	88
363	Bib cock stop tap brass heavy 15 mm	No.	390
364	Colour wash hand basin 45*30cm	No.	710
365	Ultra 250 mm. dia. uPVC 90 degree junction chamber base with U trap	No.	925
366	Ultra 250 mm.dia. uPVC Cover & Frame	No.	405
367	uPVC Blanking Plug 110 mm	No.	278
368	uPVC 90 degree bend	No.	262
369	Ultra Shaft 250x470mm	No.	383
370	Water jet with accessories	No.	341
371	White glazed full stall urinal	No.	4211
372	Glass plain 6mm thick	Sq.Mt.	893
373	White Glazed Earthenware Squatting plate (Ladies Urinal)	No.	630
374	Autoclosing pillar cock of pressmatic tap	No.	1589
375	PVC Aqua kraft type super bib tap 15 mm	No.	193
376	PVC Aqua kraft type super Two Way bib tap 15 mm	No.	372
377	Super push button type cock / tap with flange 15 mm	No.	210
378	PVC Aqua kraft type super jet spray 15 mm	No.	420
379	PVC Aqua kraft type super right angle stop tap	No.	206
380	PVC Aqua kraft type super Pillar tap 15 mm	No.	301

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
381	Fixing in CC BK Clamp, Battan	No.	21
382	Wall Mounted European type glazed W.C.pan	No.	6959
383	Super wall sink type tap with flange 15 mm	No.	583
384	Two Way bib tap with flange	No.	372
385	super jet spray with flange 2 in 1 faucet 1.50 metre long	No.	420

**Building (Bd-W : Water supply and sanitary fittings)**

1	Chloryphyriphos	Liter	245
2	Solvent	Ltr	370
3	D.D.V.P.	Ltr	492
4	Malathion	Ltr	270
5	Pine Oil	Ltr	440
6	S.S. Pipe 40 mm dia	Rmt	142
7	Mild Steel	M.T.	34010
8	Barbed Wire	Kg.	84
9	Concentina Coil Wire	Rmt	163
10	M.S. Steel	Kg	35
12	RCC Pole	No	264
14	Green marble	Sq.Mt	990
15	Telephone black granite	Sq.Mt	2438
16	Karva (for roof and sides 10kg bundle)	Bundle	24
17	Tatti	Sq.Mt	20
18	Bamboo 25mm dia.	R.Mt	18
20	Lightening Conductor	No.	8470
21	Salt	Kg.	20
22	Copper Tape width 25mm*3mm thick	Kg	400
23	Aluminium Strips 50 mm x 3 mm	R.Mt	61
24	Cripped wire 3' - 0" , 4' - 0" and 5' - 0" wide	Sq.mt	200
25	Welding Electrodes	No	5.00
26	Welded Mesh 75 X 75 mm	Sqm	190
27	Welded Mesh 150 X 150 mm	Sqm	163
28	Tarat 36" width (Gunny cloth)	R.Mt	32
29	Chain link 3' - 0" , 4' - 0" and 5' - 0" wide	Sq.Mt	185
30	Bamboo 50mm dia.	R.Mt	15
31	Hold Fast for Steel Gate	No.	56.00
32	Nut Bolts 12 mm dia. /Nails all size	No.	75.00
33	M.S. Pipe 40 mm dia	Rmt	135.00
34	Welding Rod	Box	368.00
35	PVC hand rail cover	Rmt.	210.00
36	Antitermite Liquid	Kg.	3,326.00
37	Lock for Drawer/Cupboard	No.	124.00
38	Glycel	Ltr.	268.00
39	Hing	Kg.	2,940.00
40	Hot lime	Kg.	5.00
41	Ladder	No.	105.00
42	Fine tooth chisel	No.	57.00
43	Saw	No.	32.00
44	Gloves	No.	11.00

**CD Works (CD : Cross Drainage Works)**

1	R.C.C.Pipe 1200mm dia.(Np3)2.5m long	R.Mt.	7990.00
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Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
2	R.C.C.Pipe 1100mm dia.(Np3)2.5m long	R.Mt.	7800.00
3	R.C.C.Pipe 1000mm dia.(Np3)2.5m long	R.Mt.	6074.00
4	R.C.C.Pipe 900mm dia.(Np3)2.5m long	R.Mt.	5415.00
5	R.C.C.Pipe 800mm dia.(Np3)2.5m long	R.Mt.	4859.00
6	R.C.C.Pipe 700mm dia.(Np3)2.5m long	R.Mt.	3754.00
7	R.C.C.Pipe 600mm dia.(Np3)2.5m long	R.Mt.	2823.00
8	R.C.C.Pipe 500mm dia.(Np3)2.5m long	R.Mt.	2226.00
9	R.C.C.Pipe 450mm dia.(Np3)2.5m long	R.Mt.	1860.00
10	R.C.C.pipe Np2 class 1000mm dia. 2.5m long	R.Mt.	3471.00
11	R.C.C.Np2 Pipe Collar 1000 mm Dia.	No.	347.50
12	R.C.C.pipe Np2 class 1200mm dia. 2.5m long	R.Mt.	5017.00
13	R.C.C.Np2 Pipe Collar 1200 mm Dia.	No.	502.00
14	R.C.C.pipe Np2 class 1800mm dia. 2.5m long	R.Mt.	8243.00
15	R.C.C.pipe Np2 class 900mm dia. 2.5m long	R.Mt.	3009.00
16	R.C.C.Np2 Pipe Collar 900 mm Dia.	No.	301.00
17	R.C.C.pipe Np2 class 800mm dia. 2.5m long	R.Mt.	2504.00
18	R.C.C.Np2 Pipe Collar 800 mm Dia.	No.	250.00
19	R.C.C.pipe Np2 class 700mm dia. 2.5m long	R.Mt.	2099.00
20	R.C.C.pipe Np2 class 600mm dia. 2.5m long	R.Mt.	1480.00
21	R.C.C.Np2 Pipe Collar 600 mm Dia.	No.	149.00
22	R.C.C.pipe Np2 class 500mm dia. 2.5m long	R.Mt.	1195.00
23	R.C.C.pipe Np2 class 450mm dia. 2.5m long	R.Mt.	946.00
24	R.C.C.Np2 Pipe Collar 450 mm Dia.	No.	95.00
25	R.C.C.pipe Np2 class 100mm dia. 2m long	R.Mt.	296.00
26	R.C.C.pipe Np2 class 150mm dia. 2m long	R.Mt.	319.00
27	R.C.C.pipe Np2 class 225mm dia. 2m long	R.Mt.	365.00
28	R.C.C.pipe Np2 class 300mm dia. 2m long	R.Mt.	576.00
29	RCC Pipe Np 4 heavy duty non presure pipe 1000 mm diameter	R.Mt.	7593.00
30	RCC Pipe Np4 heavy duty non presure pipe 1200 mm	R.Mt.	8915.00
31	RCC Pipe Np4 heavy duty non presure pipe 900 mm diameter	R.Mt.	5934.00

General Rates			
1	Cement	M.T.	<b>4700</b>
2	Structural Steel	M.T.	<b>44100</b>
3	TMT FE - 500	M.T.	<b>41200</b>
4	HCRM/CRS Reinforcement	M.T.	44000
5	Bitumen VG 10 (Bulk) (80/100)	M.T.	28400
6	Bitumen VG 30 (Bulk) (60/70)	M.T.	29200
7	Bitumen VG 40 (Bulk) (30/40)	M.T.	30180
8	Bitumen VG 30 (Packed) (60/70)	M.T.	32500
9	Bitumen VG 40 (Packed) (30/40)	M.T.	33580
10	Bitumen VG 10 (Packed) (80/100)	M.T.	31700
11a	Sand - Natural/V.S.I.(Vertical Shaft Impact Crusher)Quality Artificial Sand	Cu.Mt.	<b>1575</b>
12	Sand - Crushed	Cu.Mt.	<b>700</b>
13	<b>Natural Sand - Screened (for plaster work only)</b>	Cu.Mt.	2153
14	Bricks II Class	No.	6.00
15	<b>Rubble stone excluding royalty</b>	Cu.Mt.	<b>473</b>
16	<b>Aggregate 40 mm (Hand Broken) Blasted excluding royalty</b>	Cu.Mt.	<b>700</b>
17	Aggregate 25 mm	Cu.Mt.	<b>800</b>

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
18	Aggregate 20 mm	Cu.Mt.	800
19	Aggregate 12 mm	Cu.Mt.	800
20	Aggregate 10 mm	Cu.Mt.	800
21	Aggregate 6 mm	Cu.Mt.	800
22	Stone Dust	Cu.Mt.	675
23	Soft Murum	Cu.Mt.	210
24	Hard Murum	Cu.Mt.	235
25	Water	1000 lit.	150
26	White Cement	Kg.	22
27	Plasticizer	Ltr.	110
28	Stainless Steel Plate	Kg.	260
29	EMULSION RS1 ( Hincol) BULK	M.T.	29960
30	EMULSION RS1 ( Hincol) Packed	M.T.	30770
31	WASTE PLASTIC to be used in bituminous treatment as per IRC SP-098-2013	Kg.	50
32	Portland Slag Cement (PSC)	Bag	242
33	Ground Granulated Blast Furnance Slag (GGBS)	M.T.	3990
<b>General (MORTH: Roads)</b>			
1	Bitumen VG-40 (bulk (30-40 grade))	M.T.	30180
2	Stone Boulder of size 150 mm and below at Crusier Plant	Cu.Mt.	750
3	Supply of quarried stone 150 - 200 mm size for Hand Broken at site	Cu.Mt.	750
4	Boulder with minimum size of 300 mm for Pitching at Site	Cu.Mt.	750
5	Coarse sand at Mixing Plant	Cu.Mt.	1350
6	Coarse sand at Site	Cu.Mt.	1350
7	Murum at Site	Cu.Mt.	235
8	Fly ash conforming to IS: 3812 ( Part II & I) atHMP Plant / Batching Plant / Crushing Plant	Cu.Mt.	1470
9	Filter media/Filter Material as per Table 300-3 (MoRT&H Specification)	Cu.Mt.	650
10	Close graded Granular sub-base Material 53 mm to 9.5 mm	Cu.Mt.	800
11	Close graded Granular sub-base Material 37.5 mm to 9.5 mm	Cu.Mt.	800
12	Close graded Granular sub-base Material 26.5 mm to 9.5 mm	Cu.Mt.	800
13	Close graded Granular sub-base Material 9.5 mm to 4.75 mm	Cu.Mt.	800
14	Close graded Granular sub-base Material 9.5 mm to 2.36 mm	Cu.Mt.	800
15	Close graded Granular sub-base Material 4.75mm to 2.36 mm	Cu.Mt.	800
16	Close graded Granular sub-base Material 4.75mm to 75 micron mm	Cu.Mt.	800
17	Close graded Granular sub-base Material 2.36 mm	Cu.Mt.	800
18	Stone crusher dust finer than 3mm with not more than 10% passing 0.075 sieve.	Cu.Mt.	675
19	Coarse graded Granular sub-base Material 2.36 mm & below	Cu.Mt.	800
20	Coarse graded Granular sub-base Material 4.75mm to 75 micron mm	Cu.Mt.	800
21	Coarse graded Granular sub-base Material 4.75 mm to 2.36 mm	Cu.Mt.	800
22	Coarse graded Granular sub-base Material 9.5 mm to 4.75 mm	Cu.Mt.	800
23	Coarse graded Granular sub-base Material 26.5 mm to 4.75 mm	Cu.Mt.	800

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
24	Coarse graded Granular sub-base Material 26.5 mm to 9.5 mm	Cu.Mt.	800
25	Coarse graded Granular sub-base Material 37.5 mm to 9.5 mm	Cu.Mt.	800
26	Coarse graded Granular sub-base Material 53 mm to 26.5mm	Cu.Mt.	800
27	Aggregates below 5.6 mm	Cu.Mt.	800
28	Aggregates 22.4 mm to 2.36 mm	Cu.Mt.	800
29	Aggregates 22.4 mm to 5.6 mm	Cu.Mt.	800
30	Aggregates 45 mm to 2.8 mm	Cu.Mt.	800
31	Aggregates 45 mm to 22.4 mm	Cu.Mt.	800
32	Aggregates 53 mm to 2.8 mm	Cu.Mt.	800
33	Aggregates 53 mm to 22.4 mm	Cu.Mt.	800
34	Aggregates 63 mm to 2.8 mm	Cu.Mt.	800
35	Aggregates 63 mm to 45 mm	Cu.Mt.	800
36	Aggregates 90 mm to 45 mm	Cu.Mt.	800
37	Aggregates 10 mm to 5 mm	Cu.Mt.	800
38	Aggregates 11.2 mm to 0.09 mm	Cu.Mt.	800
39	Aggregates 13.2 mm to 0.09 mm	Cu.Mt.	800
40	Aggregates 13.2 mm to 5.6 mm	Cu.Mt.	800
41	Aggregates 13.2 mm to 10 mm	Cu.Mt.	800
42	Aggregates 20 mm to 10 mm	Cu.Mt.	800
43	Aggregates 25 mm to 10 mm	Cu.Mt.	800
44	Aggregates 19 mm to 6 mm	Cu.Mt.	800
45	Aggregates 37.5 mm to 19 mm	Cu.Mt.	800
46	Aggregates 37.5 mm to 25 mm	Cu.Mt.	800
47	Aggregates 6 mm nominal size	Cu.Mt.	800
48	Aggregates 10 mm nominal size	Cu.Mt.	800
49	Aggregates 13.2/12.5 mm nominal size	Cu.Mt.	800
50	Aggregates 20 mm nominal size	Cu.Mt.	800
51	Aggregates 25 mm nominal size	Cu.Mt.	800
52	Aggregates 40 mm nominal size	Cu.Mt.	800
53	Binding wire	Kg.	60
54	Bitumen ( Cationic Emulsion )	M.T.	23500
55	Bitumen VG-30 (bulk (60-70 grade))	M.T.	29200
56	Bitumen VG -10 (bulk (80-100 grade ))	M.T.	28400
57	Bitumen (Cutback )	M.T.	32000
58	Bitumen (emulsion)	M.T.	23490
59	Bitumen (modified graded) (bulk Cr-60)	M.T.	30735
60	Geo grids	Sq.Mt.	60
61	Geomembrane	Sq.Mt.	90
62	Geonets	Sq.Mt.	70
63	Geotextile	Sq.Mt.	60
64	Geotextile filter fabric	Sq.Mt.	50
65	LDO	Ltr.	40.70
66	Pavement Marking Paint	Ltr.	210
67	RCC Pipes 200 mm dia, 2.5 m long for drainage	R.Mt.	350
68	Quarry spall	Cum	550
69	Road Barricade Perforated fench (2000 x 1000 x 40 mm )	No.	3350
70	Road Barricade Sand Fillable only 1 mtr. [1000(L) x 350(W) x 760(H) mm ]	No.	2760

**Coastal Material list**

1	Polypropylene multifilament woven geotextile fabric for filter layer (approved opening size 0.075mm & water permeability 9.00 Litres/Sqm/Second)	Sqm	50
2	Polythene bags	No.	6

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2019-20
3	Trap stones weighing upto 20 kilogram	Cum	450
4	Trap stones weighing from 20 to 50 kilogram	Cum	450
5	Trap stones weighing from 50 to 100 kilogram	Cum	450
6	Trap stones weighing from 100 to 200 kilogram	Cum	465
7	Trap stones weighing from 200 to 300 kilogram	Cum	510
8	Trap stones weighing from 300 to 500 kilogram	Cum	540
9	Trap stones weighing from 500 to 1000 kilogram	Cum	550
10	Trap stones weighing from 1000 kilogram and above	Cum	565
11	Laterite stones rubbles upto 20 kilogram	Cum	330
12	Laterite stones rubbles from 20 to 50 kilogram	Cum	330
13	Laterite stones rubbles from 50 to 100 kilogram	Cum	330
14	Gabions boxes of mechanically woven hexagonal shaped wire mesh of type, 10 cm x 12 cm. edges mechanically selvedged (Zinc+ PVC) coated G.I. wires as per BS: 443, mesh wire dia. 3.00 mm, edge wire 3.70 mm size		
	a) Gabion size - 1.00 x 1.00 x 1.00 M	No.	1294
	b) Gabion size - 1.50 x 1.00 x 1.00 M	No.	1577
	c) Gabion size - 2.00 x 1.00 x 1.00 M	No.	2210
	d) Gabion size - 3.00 x 1.00 x 1.00 M	No.	3107
	e) Gabion size - 4.00 x 1.00 x 1.00 M	No.	3944
15	Flexible gabions of polypropylene material of 10 mm ø four strand mesh size of 150mm x 150 mm size		
	a) Gabion size - 1.00 x 1.00 x 1.00 M	No.	1043
	b) Gabion size - 1.50 x 1.00 x 1.00 M	No.	1392
	c) Gabion size - 2.00 x 1.00 x 1.00 M	No.	1232
	d) Gabion size - 3.00 x 1.00 x 1.00 M	No.	2459
16	Used tyre fender	No.	300
17	Geotextile bags of sizes		
	a) Geotextile bags size - 1.00 x 0.70 M	No.	180
	b) Geotextile bags size - 2.00 x 1.50 M	No.	1080
18	Geotextile tube of 20 metre long &		
	a) Geotextile tube diameter - 3.00 M	Rmt.	87500
	b) Geotextile tube diameter - 1.50 M	Rmt.	54300



**LABOUR RATES FOR SSR For Year 2019-2020**

<b>Sr. No.</b>	<b>Description</b>	<b>Per Unit</b>	<b>Rate</b>
1	Black Smith With Tools - II Class	Day	512.00
2	Stone Cutter With Tools - Semi Skilled	Day	512.00
3	Mason I Class Skilled	Day	539.00
4	Mason II Class Skilled	Day	539.00
5	Carpenter I Class Skilled	Day	539.00
6	Carpenter II Class Skilled	Day	539.00
7	Plumber With Tools - Skilled	Day	539.00
8	Glazier With Tools - Skilled	Day	539.00
9	Tin Smith With Tools - Semi Skilled	Day	512.00
10	Painter I Class Skilled	Day	539.00
11	Painter II Class Skilled	Day	539.00
12	Head Fitter With Tools - Skilled	Day	539.00
13	Mechanic	Day	539.00
14	Lorry Driver / Mixer Operator	Day	539.00
15	Welder / Driller - Skilled	Day	539.00
16	Polishman - Semi Skilled	Day	512.00
17	Assistant Plumber - Skilled	Day	512.00
18	Maistry Skilled / Supervisor / Mate	Day	539.00
19	Vibrator Operator - Skilled	Day	539.00
20	Skilled Labour	Day	539.00
21	Boreman Skilled	Day	539.00
22	Asphalt Sprayer Skilled	Day	539.00
23	Minor or Blaster Semi Skilled	Day	512.00
24	Quarry Man - Semi Skilled	Day	512.00
25	Painter / White Washer - Semi Skilled	Day	512.00
26	Labour for Excavation in Hard Rock (Un Blast)	Day	493.00
27	Tile Turner Semi Skilled	Day	512.00
28	Mazdoor - For Polishing	Day	493.00
29	Bar Bender Skilled	Day	512.00
30	Bhisti (Mixing / Curing) - Semi Skilled	Day	512.00
31	Mukadam - Semi Skilled	Day	512.00
32	Tar Handler - Semi Skilled	Day	512.00
33	Helper Un Skilled	Day	512.00
34	Tree Cutter - Semi Skilled	Day	512.00
35	Navaghani	Day	512.00
36	Mazdoor - Unskilled Heavy Male	Day	493.00
37	Mazdoor - Unskilled Heavy Female	Day	493.00
38	Below Boy	Day	493.00
39	Fitter With Tools I Class Skilled	Day	539.00
40	Fitter With Tools II Class Skilled	Day	512.00
41	Gun Man for Guniting	Day	539.00
42	Laboratory Assistant	Day	539.00
43	Labour for Tile Turning	Day	493.00
44	Excavator - Unskilled Heavy	Day	493.00
45	Breaker - Semi Skilled	Day	512.00
46	Hole Driller Semi Skilled	Day	512.00
47	Chiseler Semi Skilled	Day	512.00
48	Foreman Skilled	Day	539.00
49	Bandhani Semi Skilled	Day	512.00
50	Emgraver for lettering Skilled	Day	539.00
51	Frahi - Weld - Drilling	Day	512.00
52	Khalashi / Diers	Day	539.00
53	Jack Hammer Operator	Day	539.00
54	Electrician	Day	539.00
55	Welder Skilled	Day	539.00

**LABOUR RATES FOR SSR For Year 2019-2020**

<b>Sr. No.</b>	<b>Description</b>	<b>Per Unit</b>	<b>Rate</b>
56	Labour for Traffic Regulation	Day	493.00
57	Watchman	Day	493.00
58	Compressor Operator / Driver	Day	539.00
59	Supervisor / Mate	Day	539.00
60	Blacksmith (1st Class) Welder / Plumber / Electrician.	Day	539.00
61	Blaster (Stone Cutter)	Day	493.00
62	Mali	Day	512.00
63	Mazdoor / Dresser (Semi Skilled)	Day	512.00
64	Mazdoor / Dresser Sinker B116 Skilled	Day	512.00
65	Medical Officer	Day	1924.00
66	Operator (grouting)	Day	539.00
67	Para Medical Personnel	Day	962.00
68	Mazdoor unskilled female (light)	Day	512.00
69	Painting Lettering Number	Day	512.00
70	Junior Engineer	Day	1353.00
71	Surveyor	Day	932.00
72	Autocad Operator	Day	1353.00
73	Attendent	Day	493.00
74	Computer Typist	Day	728.00
75	Tracer	Day	932.00
76	Total Station Operator	Day	1353.00
77	Senior Engineer	Day	1971.00
78	Assistant	Day	728.00
79	Operator / Fitter	Day	539.00
80	Mazdoor Unskilled Light Male	Day	493.00
81	Computer Operator	Day	824.00
82	Survey Helper	Day	493.00
83	Technician	Day	1971.00
84	Skilled Assistants-on the site	Day	539.00
85	Supervisor	Day	932.00
86	Valuation expert	Day	1638.00
87	Office support Staff	Day	493.00
88	Co-ordinator	Day	1093.00
89	Senior Surveyor	Day	932.00
90	Revenue expert	Day	1093.00
91	Welder	Day	512.00

**(A) Usage Rates of Plant and machinery for Year 2019-20**

Sr.No.	Description of Machine	Unit	Cap.	Rate
1	2	3	4	5
<b>A</b>	<b>Earthmoving Machinery</b>			
1	Dozer D-8 H ( Heavy )	Hour	270 HP	3522.00
2	Dozer D 80 A 12 (Medium )	Hour	180 Hp	1831.00
3	Dozer D-3 B (Medium)	Hour	65 HP	1267.00
4	Hydraulic Excavator (BEML BE 200, Tata Hitachi EX200 or	Hour	0.9 Cum	1200.00
5	Hydraulic Excavator (BEML BE 200, Tata Hitachi EX200 or	Day	0.9 Cum	9600.00
6	Excavator (JCB JS140/Tata Hitachi EX120 or equivalent))	Hour	0.6 Cum	1050.00
7	Excavator (JCB JS140/Tata Hitachi EX120)	Day	0.6 Cum	8400.00
8	Hydraulic Excavator (wheeled)	Hour	0.3 Cum	800.00
9	Hydraulic Excavator (wheeled)	Day	0.3 Cum	6400.00
12	Loader 1 cum bucket capacity	Hour	1 Cum	800.00
13	Loader 1 cum bucket capacity	Day	1 Cum	6400.00
14	Motor grader 3.35 mtr Blade	Hour	145 Hp	1755.00
15	Tandem Vibratory Road Roller 8 tonne	Hour	8 Tonn	1515.00
16	Static Road Roller 8 tonne	Hour	8 Tonn	725.00
17	Pneumatic Road Roller	Hour	8 Tonn	725.00
18	Tipper -10 cum	Km.	10 Cum	61.00
19	Tipper -10 cum	Km.	10 Cum	1220.00
20	Tipper -6 cum	Km.	6 Cum	58.00
21	Tipper -6 cum	t.km	6 Cum	5.80
22	Tipper -6 cum	Hour	6 Cum	696.00
23	Tipper -3.5 cum	Km.	3.5 Cum	45.00
24	Tipper -3.5 cum	Hour	3.5 Cum	540.00
25	Tractor	Hour	35 HP	330.00
26	Tractor with rotevator	Hour	35 HP	350.00
27	Tractor with Ripper	Hour	35 HP	600.00
28	Water Tanker	Hour	9000 Liter	600.00
29	Water Tanker (15 km per Hour)	Km.	9000 Liter	40.00
<b>B</b>	<b>Asphalt / Road Machinery</b>			
30	Air Compressor 175 cfm	Hour	175 cfm	500.00
31	Air Compressor 510 cfm	Hour	510 cfm	600.00
32	Bitumen Pressure Distributor (Spray Bar Width 4.5 Mtr.)	Hour	4 to 9 KLtr.	1158.00
33	Bitumen Boiler oil fired	Hour	2000 Ltr.	200.00
34	Emulsion Pressure Distrubutor	Hour	4 to 9 KLtr.	968.00
35	Hot Mix Plant 90-120 TPH capacity (Drum Mix Plant) with SCADA	Hour	90 TPH	13000.00
36	Hot Mix Plant 60-90 TPH capacity (Drum Mix Plant) with SCADA	Hour	60 TPH	11000.00
37	Hot Mix Plant 40-60 TPH capacity (Drum Mix Plant) with SCADA	Hour	40 TPH	10000.00
38	Hydraulic chip Spreader (3 Mtr.Width)	Hour	3 Mtr.	400.00
39	Integrated Stone Crusher 100 TPH	Hour	100 TPH	12000.00
40	Integrated Stone Crusher 200 TPH	Hour	200 TPH	15000.00
41	Mastic Cooker	Hour		908.00
42	Mechanical Broom Hydraulic (Width 2.25 Mtr.)	Hour	2.25 Mtr.	250.00
43	Motor grader 3.35 mtr Blade	Hour	145 HP	1755.00

Sr.No.	Description of Machine	Unit	Cap.	Rate
1	2	3	4	5
44	Paver Finisher Hydrostatic with sensor control 100TPH	Hour	100 TPH	3000.00
45	Paver Finisher Mechanical 100 TPH	Hour	100 TPH	1200.00
46	Pot Hole Repair kit mounted on truck	Hour		400.00
47	Road Marking Machine	Hour		100.00
48	Batch Mix Asphalt Plant 160 TPH with SCADA	Hour	160 TPH	30000.00
49	Batch Mix Asphalt Plant 120 TPH with SCADA	Hour	120 TPH	25000.00
50	Batch Mix Asphalt Plant 80 TPH with SCADA	Hour	80 TPH	20000.00
51	Dumper 6 cum Capacity with VTS	Hour	6 Cum	1250.00
52	Loader 1.00 cum Bucket capacity	Hour	1.00 Cum	800.00
53	Loader 1.00 cum Bucket capacity	Day	1.00 Cum	6400.00
<b>C</b>	<b>Concrete Machinery</b>			
54	Batching and mixing plant (a) 30 cum capacity with SCADA	Hour	30 cum	1750.00
55	Batching and mixing plant (b) 15-20 cum capacity with SCADA	Hour	15-20 cum	1500.00
56	Concrete Paver Finisher with 40 HP Motor	Hour		2594.00
57	Concrete Pump of 45 & 30 cum capacity	Hour	30 - 45 cum	721.00
58	Concrete Bucket	Hour	1 cum	50.00
59	Concrete Mixer (a) 0.28 - 04 cum	Hour	0.28 - 04	450.00
60	Concrete Mixer (b) 1 cum	Hour	1 cum	600.00
61	Reversible drum concrete mixer with SCADA	Hour	1 Cum	698.00
62	Transit Mixer 4.0/4.5 cum	Hour	4 - 4.5 cum	1399.00
63	Transit Mixer 4/4.5 cum	t.km	4 - 4.5 cum	10.00
64	Transit Mixer 3.0 cum	Hour	3 cum	1100.00
65	Transit Mixer 3.0 cum	t.km	3 cum	8.00
66	Cement concrete batch mix plant @ 175 cum per hour (effective output) with SCADA	Hour	175 cum	7500.00
67	Cement concrete batch mix plant @ 75 cum per hour with SCADA	Hour	75 cum	3400.00
68	Wet Mix Plant 100 TPH	Hour	100 TPH	4000.00
69	Wet Mix Plant 75 TPH	Hour	75 TPH	3000.00
70	Wet Mix plant 60 TPH	Hour	60 TPH	2000.00
71	Vibrator (Electrical)	Hour		157.00
72	Vibrator (Diesel)	Day		960.00
<b>D</b>	<b>Other Allied Machinery</b>			
73	Crane (a) 80 tonnes	Hour	80 Tonnes	2700.00
74	Crane 40 tonne capacity	Hour	40 Tonnes	2295.00
75	Crane 20 tonne capacity	Hour	20 Tonnes	1225.00
76	Crane 15 tonne capacity	Hour	15 Tonnes	1100.00
77	Crane 10 tonne capacity	Hour	10 Tonnes	1000.00
78	Crane 5 tonne capacity	Hour	5 Tonne	917.00
79	Cranes (c) 3 tonnes	Hour	3 Tonnes	612.00
80	Generator (a) 125 KVA	Hour	125 kva	1065.00
81	Generator (b) 63 KVA	Hour	63 kva	526.00
82	GSB Plant 50 cum	Hour	50 Cum	1737.00
83	Kerb Casting Machine	Hour		532.00
84	Piling Rig with Bantonite Pump	Hour		4500.00
85	Ripper	Hour		25.00

Sr.No.	Description of Machine	Unit	Cap.	Rate
1	2	3	4	5
86	Rotavator	Hour		20.00
87	Truck 5.5 cum per 10 tonnes	Km.		31.00
88	Truck 5.5 cum per 10 tonnes	Hour		600.00
89	Truck 5.5 cum per 10 tonnes	t.km		3.63
90	Air Compressor with pneumatic chisel attachment for cutting hard clay	Hour		900.00
91	Belt conveyor system	Hour		125.00
92	Boat to carry atleast 20 persons	Hour		550.00
93	Cold mining machine @ 20 cum per hour	Hour		150.00
94	Compressor with guniting equipment along with accessories	Hour		900.00
95	Generator 33 KVA	Hour	33 KVA	394.00
96	Generator 100 KVA	Hour	100 KVA	794.00
97	Generator 250 KVA	Hour	250 KVA	2000.00
98	Generator 325 KVA	Hour	325 KVA	2500.00
99	Joint cutting machine with 2-3 blades (for rigid pavement)	Hour		800.00
100	Jack for lifting 40 tonne capacity	Day	40 Tonnes	3000.00
101	Piling ring including double acting pile driving hammer (Hydraulic ring)	Hour		4500.00
102	Plate Compactor	Hour		150.00
103	Texturing machine (for rigid pavement)	Hour		145.00
104	Truck Trailor 30 tonne capacity	Hour		1065.00
105	Truck Trailor 30 tonne capacity	t.km		6.00
106	Vibrating Pile driving hammer complete with power unit and accessories	Hour		4500.00
107	Pile boring machinery 325-400 mm dia.	R.Mt		186.00
108	Pumping Charges	Cmt		200.00
109	Pile Boaring Machine 325 to 400 mm	Day		4110.00
110	Pile Boaring Machine 425 to 500 mm	Day		4280.00
111	Pile Boaring Machine 525 to 600 mm	Day		4762.00
112	Pile Boaring Machine 625 to 700 mm	Day		5713.00
113	Pile Boaring Machine 725 to 1050 mm	Day		6200.00
114	Bentonite Pump	Day		75.00
115	Guiniting Gun	Hour		259.00
116	Chain and pully	Day		226.00
117	Welding machine	Day		336.00
118	Electric drill machine	Day		339.00
119	Electric gas cutting	Day		245.00
120	Rammer	Hour		156.00
121	Polishing machine with Polishman	Day		771.00
122	Tile Cutting Machine	Hour		26.00
123	Hand polishing with Polishman	Day		450.00
124	Tile Polishing machine (Grinder)	Day		185.00

**Asstt. Chief Engineer, (Mech.)  
Public Works, Region, Pune**

**STATEMENT - C (With Machine Loading)**  
**(FOR YEAR 2019-2020) Maharashtra**

Cost of Diesel (As on 16-04-2019)  
Cost of mobile Oil ( As on 16-04-2019)  
Hire charges of Loader

68.67 Per Litre  
270 Per Litre  
569 Per trip (Rate of Loader Rs.968/- per Hr. with 85% bucket effi., Cycle time 3 minutes)

Carrage of material over distance exceeding 0.50 km. including loading and unloading.

Lead in Km	Av.Speed Km/Hrs	Factor	No. of Trips	Km done	Qty of Diesel= 4Km/Ltr	Cost of Diesel	Qty of mobile oil in Ltr	Cost of mobile oil@270/Ltr	Hire Charges of Truck@ Rs. 2200	Total cost	add 10% Overhead Charges	Gross Total of 12+13	Cost per Trip=(Col 13/4)	Cost of loader per trip of tipper	Total Cost	Lead in km
L	S	F	$N=8/((F*(L/S))+1)$	$(2*NL)+6$												
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>
0.50	15.00	2.00	7.50	13.50	3.38	232.10	0.076	20.53	2200.00	2452.63	245.26	2697.89	359.72	569.00	928.72	0.50
1.00	16.00	2.00	7.11	20.22	5.06	347.47	0.114	30.74	2200.00	2578.21	257.82	2836.03	398.82	569.00	967.82	1.00
1.50	16.50	2.00	6.77	26.31	6.58	451.85	0.148	39.97	2200.00	2691.82	269.18	2961.00	437.42	569.00	1006.42	1.50
2.00	17.00	2.00	6.48	31.90	7.98	547.99	0.180	48.48	2200.00	2796.47	279.65	3076.12	474.99	569.00	1043.99	2.00
2.50	17.25	2.00	6.20	37.01	9.25	635.20	0.208	56.19	2200.00	2891.39	289.14	3180.53	512.80	569.00	1081.80	2.50
3.00	17.50	2.00	5.96	41.74	10.44	716.91	0.235	63.42	2200.00	2980.33	298.03	3278.36	550.30	569.00	1119.30	3.00
3.50	17.75	2.00	5.74	46.16	11.54	792.45	0.260	70.11	2200.00	3062.56	306.26	3368.82	587.17	569.00	1156.17	3.50
4.00	18.00	2.00	5.54	50.31	12.58	863.87	0.283	76.42	2200.00	3140.29	314.03	3454.32	623.70	569.00	1192.70	4.00
4.50	18.25	2.00	5.36	54.22	13.56	931.17	0.305	82.38	2200.00	3213.55	321.36	3534.91	659.77	569.00	1228.77	4.50
5.00	18.50	2.00	5.19	57.93	14.48	994.34	0.326	87.97	2200.00	3282.31	328.23	3610.54	695.27	569.00	1264.27	5.00
5.50	18.50	2.00	5.02	61.19	15.30	1050.65	0.344	92.95	2200.00	3343.60	334.36	3677.96	733.11	569.00	1302.11	5.50
6.00	18.75	2.00	4.88	64.54	16.13	1107.65	0.363	97.99	2200.00	3405.64	340.56	3746.20	767.97	569.00	1336.97	6.00
6.50	18.85	2.00	4.73	67.55	16.89	1159.84	0.380	102.61	2200.00	3462.45	346.25	3808.70	804.42	569.00	1373.42	6.50
7.00	19.00	2.00	4.61	70.48	17.62	1209.97	0.396	107.04	2200.00	3517.01	351.70	3868.71	839.92	569.00	1408.92	7.00
7.50	19.15	2.00	4.49	73.29	18.32	1258.03	0.412	111.29	2200.00	3569.32	356.93	3926.25	875.21	569.00	1444.21	7.50
8.00	19.30	2.00	4.37	75.98	19.00	1304.73	0.428	115.43	2200.00	3620.16	362.02	3982.18	910.43	569.00	1479.43	8.00

Lead in Km	Av. Speed Km/Hrs	Factor	No. of Trips	Km done	Qty of Diesel= 4Km/Ltr	Cost of Diesel	Qty of mobile oil in Ltr	Cost of mobile oil@270/Ltr	Hire Charges of Truck@ Rs. 2200	Total cost	add 10% Overhead Charges	Gross Total of 12+13	Cost per Trip=(Col 13/4)	Cost of loader per trip of tipper	Total Cost	Lead in km
L	S	F	$N=8/((F*(L/S))+1)$	$(2*NL)+6$												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
8.50	19.45	2.00	4.27	78.57	19.64	1348.68	0.442	119.31	2200.00	3667.99	366.80	4034.79	945.17	569.00	1514.17	8.50
9.00	19.60	2.00	4.17	81.06	20.27	1391.94	0.456	123.14	2200.00	3715.08	371.51	4086.59	979.95	569.00	1548.95	9.00
9.50	19.80	2.00	4.08	83.57	20.89	1434.52	0.470	126.91	2200.00	3761.43	376.14	4137.57	1013.50	569.00	1582.50	9.50
10.00	20.00	2.00	4.00	86.00	21.50	1476.41	0.484	130.61	2200.00	3807.02	380.70	4187.72	1046.93	569.00	1615.93	10.00
11.00	21.00	2.00	3.91	91.95	22.99	1578.72	0.517	139.66	2200.00	3918.38	391.84	4310.22	1103.21	569.00	1672.21	11.00
12.00	22.00	2.00	3.83	97.83	24.46	1679.67	0.550	148.59	2200.00	4028.26	402.83	4431.09	1158.13	569.00	1727.13	12.00
13.00	23.00	2.00	3.76	103.63	25.91	1779.24	0.583	157.40	2200.00	4136.64	413.66	4550.30	1211.76	569.00	1780.76	13.00
14.00	24.00	2.00	3.69	109.38	27.35	1878.12	0.615	166.15	2200.00	4244.27	424.43	4668.70	1264.44	569.00	1833.44	14.00
15.00	25.00	2.00	3.64	115.09	28.77	1975.64	0.647	174.78	2200.00	4350.42	435.04	4785.46	1316.00	569.00	1885.00	15.00
20.00	25.00	2.00	3.08	129.08	32.27	2215.98	0.726	196.04	2200.00	4612.02	461.20	5073.22	1648.80	569.00	2217.80	20.00
25.00	25.00	2.00	2.67	139.33	34.83	2391.78	0.784	211.59	2200.00	4803.37	480.34	5283.71	1981.39	569.00	2550.39	25.00
30.00	30.00	2.00	2.67	166.00	41.50	2849.81	0.934	252.11	2200.00	5301.92	530.19	5832.11	2187.04	569.00	2756.04	30.00
35.00	30.00	2.00	2.40	174.00	43.50	2987.15	0.979	264.26	2200.00	5451.41	545.14	5996.55	2498.56	569.00	3067.56	35.00
40.00	30.00	2.00	2.18	180.55	45.14	3099.76	1.016	274.23	2200.00	5573.99	557.40	6131.39	2810.22	569.00	3379.22	40.00
45.00	30.00	2.00	2.00	186.00	46.50	3193.16	1.046	282.49	2200.00	5675.65	567.57	6243.22	3121.61	569.00	3690.61	45.00
50.00	30.00	1.75	2.04	210.26	52.56	3609.30	1.183	319.30	2200.00	6128.60	612.86	6741.46	3300.51	569.00	3869.51	50.00
60.00	35.00	1.75	2.00	246.00	61.50	4223.21	1.384	373.61	2200.00	6796.82	679.68	7476.50	3738.25	569.00	4307.25	60.00
70.00	35.00	1.75	1.78	254.89	63.72	4375.65	1.434	387.10	2200.00	6962.75	696.28	7659.03	4308.20	569.00	4877.20	70.00
80.00	35.00	1.75	1.60	262.00	65.50	4497.89	1.474	397.91	2200.00	7095.80	709.58	7805.38	4878.36	569.00	5447.36	80.00
90.00	35.00	1.75	1.45	267.82	66.95	4597.46	1.506	406.72	2200.00	7204.18	720.42	7924.60	5448.16	569.00	6017.16	90.00
100.00	35.00	1.75	1.33	272.67	68.17	4681.23	1.534	414.13	2200.00	7295.36	729.54	8024.90	6018.68	569.00	6587.68	100.00

Lead in Km	Av. Speed Km/Hrs	Factor	No. of Trips	Km done	Qty of Diesel= 4Km/Ltr	Cost of Diesel	Qty of mobile oil in Ltr	Cost of mobile oil@270/Ltr	Hire Charges of Truck@ Rs. 2200	Total cost	add 10% Overhead Charges	Gross Total of 12+13	Cost per Trip=(Col 13/4)	Cost of loader per trip of tipper	Total Cost	Lead in km
L	S	F	$N=8/((F*(L/S))+1)$	$(2*NL)+6$												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
125.00	40.00	1.50	1.41	357.65	89.41	6139.78	2.012	543.17	2200.00	8882.95	888.30	9771.25	6946.75	569.00	7515.75	125.00
150.00	40.00	1.50	1.21	368.26	92.07	6322.45	2.072	559.33	2200.00	9081.78	908.18	9989.96	8272.94	569.00	8841.94	150.00
175.00	40.00	1.25	1.24	438.85	109.71	7533.79	2.468	666.49	2200.00	10400.28	1040.03	11440.31	9250.56	569.00	9819.56	175.00
200.00	40.00	1.25	1.10	447.38	111.84	7680.05	2.516	679.43	2200.00	10559.48	1055.95	11615.43	10526.48	569.00	11095.48	200.00
250.00	40.00	1.25	0.91	459.90	114.98	7895.68	2.587	698.50	2200.00	10794.18	1079.42	11873.60	13079.51	569.00	13648.51	250.00
300.00	40.00	1.25	0.77	468.65	117.16	8045.38	2.636	711.75	2200.00	10957.13	1095.71	12052.84	15631.03	569.00	16200.03	300.00
350.00	40.00	1.25	0.67	475.11	118.78	8156.62	2.673	721.59	2200.00	11078.21	1107.82	12186.03	18183.84	569.00	18752.84	350.00
400.00	40.00	1.25	0.59	480.07	120.02	8241.77	2.700	729.12	2200.00	11170.89	1117.09	12287.98	20735.97	569.00	21304.97	400.00
500.00	40.00	1.25	0.48	487.20	121.80	8364.01	2.741	739.94	2200.00	11303.95	1130.40	12434.35	25840.13	569.00	26409.13	500.00
600.00	40.00	1.25	0.41	492.08	123.02	8447.78	2.768	747.35	2200.00	11395.13	1139.51	12534.64	30944.89	569.00	31513.89	600.00
700.00	40.00	1.25	0.35	495.62	123.90	8508.21	2.788	752.69	2200.00	11460.90	1146.09	12606.99	36048.11	569.00	36617.11	700.00
800.00	40.00	1.25	0.31	498.31	124.58	8554.91	2.803	756.82	2200.00	11511.73	1151.17	12662.90	41154.43	569.00	41723.43	800.00
900.00	40.00	1.25	0.27	500.42	125.11	8591.30	2.815	760.04	2200.00	11551.34	1155.13	12706.47	46259.49	569.00	46828.49	900.00
1000.00	40.00	1.25	0.25	502.12	125.53	8620.15	2.824	762.59	2200.00	11582.74	1158.27	12741.01	51362.20	569.00	51931.20	1000.00



**STATEMENT - C 1 (With Machine Loading)**  
**(FOR YEAR 2019-2020) Maharashtra**

Cost of Diesel (As on 16-04-2019)  
 Cost of mobile Oil ( As on 16-04-2019)  
 Hire charges of Loader

68.67 Per Litre  
 270 Per Litre  
 569 Per trip (Rate of Loader Rs.968/- per Hr. with 85% bucket effi., Cycle time 3 minutes)

Carrage of material over distance exceeding 0.50 km. including loading and unloading.

Lead in km	Total Cost Per Trip Lead Charges (Including loader)	Fuel Component										
			Murrum, Building Rubish, Earth		Manure Sludge		Excavated Rock soling stone		Sand, Stone below 40 mm, Normal Brick sider aggre. Timber		Stone aggregate 40mm Normal size and above	
			Unit Cum		Unit Cum		Unit Cum		Unit Cum		Unit Cum	
		L.F.	Fuel Comp.	L.F.	Fuel Comp.	L.F.	Fuel Comp.	L.F.	Fuel Comp.	L.F.	Fuel Comp.	
		6.00		5.45		4.70		5.75		6		
0.50	928.72	37.05	154.79	6.18	170.41	6.80	197.60	7.88	161.52	6.44	154.79	6.18
1.00	967.82	58.51	161.30	9.75	177.58	10.74	205.92	12.45	168.32	10.18	161.30	9.75
1.50	1006.42	79.91	167.74	13.32	184.66	14.66	214.13	17.00	175.03	13.90	167.74	13.32
2.00	1043.99	101.25	174.00	16.88	191.56	18.58	222.13	21.54	181.56	17.61	174.00	16.88
2.50	1081.80	122.67	180.30	20.45	198.50	22.51	230.17	26.10	188.14	21.33	180.30	20.45
3.00	1119.30	144.02	186.55	24.00	205.38	26.43	238.15	30.64	194.66	25.05	186.55	24.00
3.50	1156.17	165.44	192.70	27.57	212.14	30.36	245.99	35.20	201.07	28.77	192.70	27.57
4.00	1192.70	186.70	198.78	31.12	218.84	34.26	253.77	39.72	207.43	32.47	198.78	31.12
4.50	1228.77	208.00	204.80	34.67	225.46	38.17	261.44	44.26	213.70	36.17	204.80	34.67
5.00	1264.27	229.39	210.71	38.23	231.98	42.09	268.99	48.81	219.87	39.89	210.71	38.23
5.50	1302.11	250.75	217.02	41.79	238.92	46.01	277.04	53.35	226.45	43.61	217.02	41.79
6.00	1336.97	271.93	222.83	45.32	245.32	49.90	284.46	57.86	232.52	47.29	222.83	45.32
6.50	1373.42	293.24	228.90	48.87	252.00	53.81	292.22	62.39	238.86	51.00	228.90	48.87
7.00	1408.92	314.61	234.82	52.44	258.52	57.73	299.77	66.94	245.03	54.71	234.82	52.44
7.50	1444.21	335.84	240.70	55.97	264.99	61.62	307.28	71.46	251.17	58.41	240.70	55.97
8.00	1479.43	357.10	246.57	59.52	271.46	65.52	314.77	75.98	257.29	62.10	246.57	59.52
8.50	1514.17	378.36	252.36	63.06	277.83	69.42	322.16	80.50	263.33	65.80	252.36	63.06
9.00	1548.95	399.66	258.16	66.61	284.21	73.33	329.56	85.03	269.38	69.51	258.16	66.61
9.50	1582.50	420.77	263.75	70.13	290.37	77.21	336.70	89.53	275.22	73.18	263.75	70.13
10.00	1615.93	441.93	269.32	73.66	296.50	81.09	343.81	94.03	281.03	76.86	269.32	73.66
11.00	1672.21	483.86	278.70	80.64	306.83	88.78	355.79	102.95	290.82	84.15	278.70	80.64

Lead in km	Total Cost Per Trip Lead Charges (Including loader)	Fuel Component										
			Murrum, Building Rubish, Earth		Manure Sludge		Excavated Rock soling stone		Sand, Stone below 40 mm, Normal Brick sider aggre. Timber		Stone aggregate 40mm Normal size and above	
			Unit Cum		Unit Cum		Unit Cum		Unit Cum		Unit Cum	
		L.F.	Fuel Comp.	L.F.	Fuel Comp.	L.F.	Fuel Comp.	L.F.	Fuel Comp.	L.F.	Fuel Comp.	
		6.00		5.45		4.70		5.75		6		
12.00	1727.13	525.52	287.86	87.59	316.90	96.43	367.47	111.81	300.37	91.39	287.86	87.59
13.00	1780.76	567.23	296.79	94.54	326.74	104.08	378.89	120.69	309.70	98.65	296.79	94.54
14.00	1833.44	608.96	305.57	101.49	336.41	111.74	390.09	129.57	318.86	105.91	305.57	101.49
15.00	1885.00	650.53	314.17	108.42	345.87	119.36	401.06	138.41	327.83	113.14	314.17	108.42
20.00	2217.80	862.24	369.63	143.71	406.94	158.21	471.87	183.46	385.70	149.95	369.63	143.71
25.00	2550.39	1074.09	425.07	179.02	467.96	197.08	542.64	228.53	443.55	186.80	425.07	179.02
30.00	2756.04	1279.48	459.34	213.25	505.70	234.77	586.39	272.23	479.31	222.52	459.34	213.25
35.00	3067.56	1490.23	511.26	248.37	562.86	273.44	652.67	317.07	533.49	259.17	511.26	248.37
40.00	3379.22	1700.96	563.20	283.49	620.04	312.10	718.98	361.91	587.69	295.82	563.20	283.49
45.00	3690.61	1911.60	615.10	318.60	677.18	350.75	785.24	406.72	641.85	332.45	615.10	318.60
50.00	3869.51	2115.94	644.92	352.66	710.00	388.25	823.30	450.20	672.96	367.99	644.92	352.66
60.00	4307.25	2528.25	717.88	421.38	790.32	463.90	916.44	537.93	749.09	439.70	717.88	421.38
70.00	4877.20	2946.97	812.87	491.16	894.90	540.73	1037.70	627.01	848.21	512.52	812.87	491.16
80.00	5447.36	3365.86	907.89	560.98	999.52	617.59	1159.01	716.14	947.37	585.37	907.89	560.98
90.00	6017.16	3784.94	1002.86	630.82	1104.07	694.48	1280.25	805.31	1046.46	658.25	1002.86	630.82
100.00	6587.68	4203.70	1097.95	700.62	1208.75	771.32	1401.63	894.40	1145.68	731.08	1097.95	700.62
125.00	7515.75	5226.48	1252.63	871.08	1379.04	958.99	1599.10	1112.02	1307.09	908.95	1252.63	871.08
150.00	8841.94	6268.39	1473.66	1044.73	1622.37	1150.16	1881.26	1333.70	1537.73	1090.15	1473.66	1044.73
175.00	9819.56	7293.67	1636.59	1215.61	1801.75	1338.29	2089.27	1551.84	1707.75	1268.46	1636.59	1215.61
200.00	11095.48	8334.07	1849.25	1389.01	2035.87	1529.19	2360.74	1773.21	1929.65	1449.40	1849.25	1389.01
250.00	13648.51	10412.96	2274.75	1735.49	2504.31	1910.63	2903.94	2215.52	2373.65	1810.95	2274.75	1735.49
300.00	16200.03	12493.10	2700.01	2082.18	2972.48	2292.31	3446.81	2658.11	2817.40	2172.71	2700.01	2082.18
350.00	18752.84	14572.49	3125.47	2428.75	3440.89	2673.85	3989.97	3100.53	3261.36	2534.35	3125.47	2428.75
400.00	21304.97	16652.93	3550.83	2775.49	3909.17	3055.58	4532.97	3543.18	3705.21	2896.16	3550.83	2775.49
500.00	26409.13	20811.81	4401.52	3468.64	4845.71	3818.68	5618.96	4428.04	4592.89	3619.45	4401.52	3468.64

**STATEMENT - C (With Manual Loading)**  
**(FOR YEAR 2019-2020) Maharashtra**

Cost of Diesel (As on 16-04-2019)  
Cost of mobile Oil ( As on 16-04-2019)  
Labour Charges of mazdoor

68.67 Per Litre  
270 Per Litre  
493 Per Labour

Carrage of material over distance exceeding 0.50 km. including loading and unloading.

Lead in Km	Av.Speed Km/Hrs	Factor	No. of Trips	Km done	Qty of Diesel= 4Km/Ltr	Cost of Diesel	Qty of mobile oil in Ltr	Cost of mobile oil@270/Ltr	Cost of 6 Mazdoor @448/lbr	Hire Charges of Truck@Rs. 2200 per day	Total cost	add 10% Overhead Charges	Gross Total of 12+13	Cost per Trip=(Col 14/4)	Lead in km	Fuel Componant	Cost Per trip 10 MT
L	S	F	$N=8/((L/S))$	$(2*NL)+6$													
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>
0.50	15.00	2.00	7.5	13.50	3.38	232.10	0.076	20.53	2958.00	2200.00	5410.63	541.06	5951.69	793.56	0.50	37.05	793.56
1.00	16.00	2.00	7.11	20.22	5.06	347.47	0.114	30.74	2958.00	2200.00	5536.21	553.62	6089.83	856.52	1.00	58.51	856.52
1.50	16.50	2.00	6.77	26.31	6.58	451.85	0.148	39.97	2958.00	2200.00	5649.82	564.98	6214.80	917.99	1.50	79.91	917.99
2.00	17.00	2.00	6.48	31.92	7.98	547.99	0.180	48.48	2958.00	2200.00	5754.47	575.45	6329.92	976.84	2.00	101.25	976.84
2.50	17.25	2.00	6.20	37.00	9.25	635.20	0.208	56.19	2958.00	2200.00	5849.39	584.94	6434.33	1037.8	2.50	122.67	1037.80
3.00	17.50	2.00	5.96	41.76	10.44	716.91	0.235	63.42	2958.00	2200.00	5938.33	593.83	6532.16	1096	3.00	144.02	1096.00
3.50	17.75	2.00	5.74	46.18	11.55	793.14	0.260	70.17	2958.00	2200.00	6021.31	602.13	6623.44	1153.91	3.50	165.44	1153.91
4.00	18.00	2.00	5.54	50.32	12.58	863.87	0.283	76.42	2958.00	2200.00	6098.29	609.83	6708.12	1210.85	4.00	186.70	1210.85
4.50	18.25	2.00	5.36	54.24	13.56	931.17	0.305	82.38	2958.00	2200.00	6171.55	617.16	6788.71	1266.55	4.50	208.00	1266.55
5.00	18.50	2.00	5.19	57.90	14.48	994.34	0.326	87.97	2958.00	2200.00	6240.31	624.03	6864.34	1322.61	5.00	229.39	1322.61
5.50	18.50	2.00	5.02	61.22	15.31	1051.34	0.344	93.01	2958.00	2200.00	6302.35	630.24	6932.59	1380.99	5.50	250.75	1380.99
6.00	18.75	2.00	4.88	64.56	16.14	1108.33	0.363	98.05	2958.00	2200.00	6364.38	636.44	7000.82	1434.59	6.00	271.93	1434.59
6.50	18.85	2.00	4.73	67.49	16.87	1158.46	0.380	102.49	2958.00	2200.00	6418.95	641.90	7060.85	1492.78	6.50	293.24	1492.78
7.00	19.00	2.00	4.61	70.54	17.64	1211.34	0.397	107.16	2958.00	2200.00	6476.50	647.65	7124.15	1545.37	7.00	314.61	1545.37
7.50	19.15	2.00	4.49	73.35	18.34	1259.41	0.413	111.42	2958.00	2200.00	6528.83	652.88	7181.71	1599.49	7.50	335.84	1599.49
8.00	19.30	2.00	4.37	75.92	18.98	1303.36	0.427	115.30	2958.00	2200.00	6576.66	657.67	7234.33	1655.45	8.00	357.10	1655.45
8.50	19.45	2.00	4.27	78.59	19.65	1349.37	0.442	119.37	2958.00	2200.00	6626.74	662.67	7289.41	1707.12	8.50	378.36	1707.12
9.00	19.60	2.00	4.17	81.06	20.27	1391.94	0.456	123.14	2958.00	2200.00	6673.08	667.31	7340.39	1760.29	9.00	399.66	1760.29
9.50	19.80	2.00	4.08	83.52	20.88	1433.83	0.470	126.85	2958.00	2200.00	6718.68	671.87	7390.55	1811.41	9.50	420.77	1811.41
10.00	20.00	2.00	4.00	86.00	21.50	1476.41	0.484	130.61	2958.00	2200.00	6765.02	676.50	7441.52	1860.38	10.00	441.93	1860.38

Lead in Km	Av.Speed Km/Hrs	Factor	No. of Trips	Km done	Qty of Diesel= 4Km/Ltr	Cost of Diesel	Qty of mobile oil in Ltr	Cost of mobile oil@270/Ltr	Cost of 6 Mazdoor @448/lbr	Hire Charges of Truck@Rs. 2200 per day	Total cost	add 10% Overhead Charges	Gross Total of 12+13	Cost per Trip=(Col 14/4)	Lead in km	Fuel Compa n t	Cost Per trip 10 MT
L	S	F	$N=8/((2*(L/S))+1)$	(2*NL)+6													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
11.00	21.00	2.00	3.91	92.02	23.01	1580.10	0.518	139.79	2958.00	2200.00	6877.89	687.79	7565.68	1934.96	11.00	483.86	1934.96
12.00	22.00	2.00	3.83	97.92	24.48	1681.04	0.551	148.72	2958.00	2200.00	6987.76	698.78	7686.54	2006.93	12.00	525.52	2006.93
13.00	23.00	2.00	3.76	103.76	25.94	1781.30	0.584	157.59	2958.00	2200.00	7096.89	709.69	7806.58	2076.22	13.00	567.23	2076.22
14.00	24.00	2.00	3.69	109.32	27.33	1876.75	0.615	166.03	2958.00	2200.00	7200.78	720.08	7920.86	2146.57	14.00	608.96	2146.57
15.00	25.00	2.00	3.64	115.20	28.80	1977.70	0.648	174.96	2958.00	2200.00	7310.66	731.07	8041.73	2209.27	15.00	650.53	2209.27
20.00	25.00	2.00	3.08	129.20	32.30	2218.04	0.727	196.22	2958.00	2200.00	7572.26	757.23	8329.49	2704.38	20.00	862.24	2704.38
25.00	25.00	2.00	2.67	139.50	34.88	2395.21	0.785	211.90	2958.00	2200.00	7765.11	776.51	8541.62	3199.11	25.00	1074.09	3199.11
30.00	30.00	2.00	2.67	166.20	41.55	2853.24	0.935	252.42	2958.00	2200.00	8263.66	826.37	9090.03	3404.51	30.00	1279.48	3404.51
35.00	30.00	2.00	2.40	174.00	43.50	2987.15	0.979	264.26	2958.00	2200.00	8409.41	840.94	9250.35	3854.31	35.00	1490.23	3854.31
40.00	30.00	2.00	2.18	180.40	45.10	3097.02	1.015	273.98	2958.00	2200.00	8529.00	852.90	9381.90	4303.62	40.00	1700.96	4303.62
45.00	30.00	2.00	2.00	186.00	46.50	3193.16	1.046	282.49	2958.00	2200.00	8633.65	863.37	9497.02	4748.51	45.00	1911.60	4748.51
50.00	30.00	1.75	2.04	210.00	52.50	3605.18	1.181	318.94	2958.00	2200.00	9082.12	908.21	9990.33	4897.22	50.00	2115.94	4897.22
60.00	35.00	1.75	2.00	246.00	61.50	4223.21	1.384	373.61	2958.00	2200.00	9754.82	975.48	10730.30	5365.15	60.00	2528.25	5365.15
70.00	35.00	1.75	1.78	255.20	63.80	4381.15	1.436	387.59	2958.00	2200.00	9926.74	992.67	10919.41	6134.5	70.00	2946.97	6134.50
80.00	35.00	1.75	1.60	262.00	65.50	4497.89	1.474	397.91	2958.00	2200.00	10053.80	1005.38	11059.18	6911.99	80.00	3365.86	6911.99
90.00	35.00	1.75	1.45	267.00	66.75	4583.72	1.502	405.51	2958.00	2200.00	10147.23	1014.72	11161.95	7697.9	90.00	3784.94	7697.90
100.00	35.00	1.75	1.33	272.00	68.00	4669.56	1.530	413.10	2958.00	2200.00	10240.66	1024.07	11264.73	8469.72	100.00	4203.70	8469.72
125.00	40.00	1.50	1.41	358.50	89.63	6154.89	2.017	544.50	2958.00	2200.00	11857.39	1185.74	13043.13	9250.45	125.00	5226.48	9250.45
150.00	40.00	1.50	1.21	369.00	92.25	6334.81	2.076	560.42	2958.00	2200.00	12053.23	1205.32	13258.55	10957.5	150.00	6268.39	10957.48
175.00	40.00	1.25	1.24	440.00	110.00	7553.70	2.475	668.25	2958.00	2200.00	13379.95	1338.00	14717.95	11869.3	175.00	7293.67	11869.31
200.00	40.00	1.25	1.1	446.00	111.50	7656.71	2.509	677.36	2958.00	2200.00	13492.07	1349.21	14841.28	13492.1	200.00	8334.07	13492.07
250.00	40.00	1.25	0.91	461.00	115.25	7914.22	2.593	700.14	2958.00	2200.00	13772.36	1377.24	15149.60	16647.9	250.00	10412.96	16647.91
300.00	40.00	1.25	0.77	468.00	117.00	8034.39	2.633	710.78	2958.00	2200.00	13903.17	1390.32	15293.49	19861.7	300.00	12493.10	19861.68
350.00	40.00	1.25	0.67	475.00	118.75	8154.56	2.672	721.41	2958.00	2200.00	14033.97	1403.40	15437.37	23040.9	350.00	14572.49	23040.85

Lead in Km	Av.Speed Km/Hrs	Factor	No. of Trips	Km done	Qty of Diesel= 4Km/Ltr	Cost of Diesel	Qty of mobile oil in Ltr	Cost of mobile oil@270/Ltr	Cost of 6 Mazdoor @448/lbr	Hire Charges of Truck@Rs. 2200 per day	Total cost	add 10% Overhead Charges	Gross Total of 12+13	Cost per Trip=(Col 14/4)	Lead in km	Fuel Componant	Cost Per trip 10 MT
L	S	F	$N=8/((2*(L/S))+6)$	(2*NL)+6													
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>
400.00	40.00	1.25	0.59	478.00	119.50	8206.07	2.689	725.96	2958.00	2200.00	14090.03	1409.00	15499.03	26269.5	400.00	16652.93	26269.54
500.00	40.00	1.25	0.48	486.00	121.50	8343.41	2.734	738.11	2958.00	2200.00	14239.52	1423.95	15663.47	32632.2	500.00	20811.81	32632.23
600.00	40.00	1.25	0.41	498.00	124.50	8549.42	2.801	756.34	2958.00	2200.00	14463.76	1446.38	15910.14	38805.2	600.00	24966.66	38805.22
700.00	40.00	1.25	0.35	496.00	124.00	8515.08	2.790	753.30	2958.00	2200.00	14426.38	1442.64	15869.02	45340.1	700.00	29129.19	45340.06
800.00	40.00	1.25	0.31	502.00	125.50	8618.09	2.824	762.41	2958.00	2200.00	14538.50	1453.85	15992.35	51588.2	800.00	33285.63	51588.23
900.00	40.00	1.25	0.27	492.00	123.00	8446.41	2.768	747.23	2958.00	2200.00	14351.64	1435.16	15786.80	58469.6	900.00	37455.57	58469.63
1000.00	40.00	1.25	0.25	506.00	126.50	8686.76	2.846	768.49	2958.00	2200.00	14613.25	1461.33	16074.58	64298.3	1000.00	41603.08	64298.32

## STATEMENT - C 1 (With Manual Loading)

### For 2019-2020 Maharashtra

Cost of Diesel ( 16-04-2019)

68.67 Per Litre

Cost of Oil ( As on 16-04-19)

270 Per Litre

Labour Charges of mazdoor

493 Per Labour

Lead in km	Cost Per Trip Lead Charges	ConcreteBlock (FORM)		Cement, Lime, Stone Block, GI, CI, CC & AC Pipes / Sheet & Plate, Glass in packs, Distemper, AC Sheet, Fitting Iron Sheet		Bricks		Tiles Half Round Tiles /Roofing Tiles/Manlore Tiles		Steel (MS, TMT, H.Y.S.D.) Structural Steel		Flooring Tiles Ceramic/ Marbonate		Asphalt In Drum (approx Gross wt 172 kg per drum)	
		Unit Cum	Fuel	Unit MT.	Fuel	Unit Cum	Fuel Comp.	Unit Cum	Fuel	Unit MT.	Fuel	Unit Sqm	Fuel	Unit Drums.	Fuel
L	Rs.	L.F.	Comp.	L.F.	Comp.	5	Fuel Comp.	5	Comp.	10.00	Comp.	100	Comp.	50	Comp.
0.50	793.56	113.37	5.29	79.36	3.71	158.71	18.53	158.71	7.41	79.36	3.71	7.94	0.37	15.87	0.74
1.00	856.52	122.36	8.36	85.65	5.85	171.30	29.26	171.30	11.70	85.65	5.85	8.57	0.59	17.13	1.17
1.50	917.99	131.14	11.42	91.80	7.99	183.60	39.96	183.60	15.98	91.80	7.99	9.18	0.80	18.36	1.60
2.00	976.84	139.55	14.46	97.68	10.13	195.37	50.63	195.37	20.25	97.68	10.13	9.77	1.01	19.54	2.03
2.50	1037.80	148.26	17.52	103.78	12.27	207.56	61.34	207.56	24.53	103.78	12.27	10.38	1.23	20.76	2.45
3.00	1096.00	156.57	20.57	109.60	14.40	219.20	72.01	219.20	28.80	109.60	14.40	10.96	1.44	21.92	2.88
3.50	1153.91	164.84	23.63	115.39	16.54	230.78	82.72	230.78	33.09	115.39	16.54	11.54	1.65	23.08	3.31
4.00	1210.85	172.98	26.67	121.09	18.67	242.17	93.35	242.17	37.34	121.09	18.67	12.11	1.87	24.22	3.73
4.50	1266.55	180.94	29.71	126.66	20.80	253.31	104.00	253.31	41.60	126.66	20.80	12.67	2.08	25.33	4.16
5.00	1322.61	188.94	32.77	132.26	22.94	264.52	114.70	264.52	45.88	132.26	22.94	13.23	2.29	26.45	4.59
5.50	1380.99	197.28	35.82	138.10	25.08	276.20	125.38	276.20	50.15	138.10	25.08	13.81	2.51	27.62	5.02
6.00	1434.59	204.94	38.85	143.46	27.19	286.92	135.97	286.92	54.39	143.46	27.19	14.35	2.72	28.69	5.44
6.50	1492.78	213.25	41.89	149.28	29.32	298.56	146.62	298.56	58.65	149.28	29.32	14.93	2.93	29.86	5.86
7.00	1545.37	220.77	44.94	154.54	31.46	309.07	157.31	309.07	62.92	154.54	31.46	15.45	3.15	30.91	6.29
7.50	1599.49	228.50	47.98	159.95	33.58	319.90	167.92	319.90	67.17	159.95	33.58	15.99	3.36	31.99	6.72
8.00	1655.45	236.49	51.01	165.55	35.71	331.09	178.55	331.09	71.42	165.55	35.71	16.55	3.57	33.11	7.14
8.50	1707.12	243.87	54.05	170.71	37.84	341.42	189.18	341.42	75.67	170.71	37.84	17.07	3.78	34.14	7.57
9.00	1760.29	251.47	57.09	176.03	39.97	352.06	199.83	352.06	79.93	176.03	39.97	17.60	4.00	35.21	7.99
9.50	1811.41	258.77	60.11	181.14	42.08	362.28	210.39	362.28	84.15	181.14	42.08	18.11	4.21	36.23	8.42

Lead in km	Cost Per Trip Lead Charges	ConcreteBlock (FORM)		Cement, Lime, Stone Block, Gl, Cl, CC & AC Pipes / Sheet & Plate, Glass in packs, Distemper, AC Sheet, Fitting Iron Sheet		Bricks		Tiles Half Round Tiles /Roofing Tiles/Manlore Tiles		Steel (MS, TMT, H.Y.S.D.) Structural Steel		Flooring Tiles Ceramic/ Marbonate		Asphalt In Drum (approx Gross wt 172 kg per drum)			
		L	Rs.	Unit Cum		Unit MT.		Unit Cum		Unit Cum		Unit MT.		Unit Sqm		Unit Drums.	
				L.F.	Fuel Comp.	L.F.	Fuel Comp.	L.F.	Fuel Comp.	L.F.	Fuel Comp.	L.F.	Fuel Comp.	L.F.	Fuel Comp.	L.F.	Fuel Comp.
				7.00		10.00		5		5		10.00		100		50	
10.00	1860.38	265.77	63.13	186.04	44.19	372.08	220.97	372.08	88.39	186.04	44.19	18.60	4.42	37.21	8.84		
11.00	1934.96	276.42	69.12	193.50	48.39	386.99	241.93	386.99	96.77	193.50	48.39	19.35	4.84	38.70	9.68		
12.00	2006.93	286.70	75.07	200.69	52.55	401.39	262.76	401.39	105.10	200.69	52.55	20.07	5.26	40.14	10.51		
13.00	2076.22	296.60	81.03	207.62	56.72	415.24	283.62	415.24	113.45	207.62	56.72	20.76	5.67	41.52	11.34		
14.00	2146.57	306.65	86.99	214.66	60.90	429.31	304.48	429.31	121.79	214.66	60.90	21.47	6.09	42.93	12.18		
15.00	2209.27	315.61	92.93	220.93	65.05	441.85	325.27	441.85	130.11	220.93	65.05	22.09	6.51	44.19	13.01		
20.00	2704.38	386.34	123.18	270.44	86.22	540.88	431.12	540.88	172.45	270.44	86.22	27.04	8.62	54.09	17.24		
25.00	3199.11	457.02	153.44	319.91	107.41	639.82	537.05	639.82	214.82	319.91	107.41	31.99	10.74	63.98	21.48		
30.00	3404.51	486.36	182.78	340.45	127.95	680.90	639.74	680.90	255.90	340.45	127.95	34.05	12.79	68.09	25.59		
35.00	3854.31	550.62	212.89	385.43	149.02	770.86	745.12	770.86	298.05	385.43	149.02	38.54	14.90	77.09	29.80		
40.00	4303.62	614.80	242.99	430.36	170.10	860.72	850.48	860.72	340.19	430.36	170.10	43.04	17.01	86.07	34.02		
45.00	4748.51	678.36	273.09	474.85	191.16	949.70	955.80	949.70	382.32	474.85	191.16	47.49	19.12	94.97	38.23		
50.00	4897.22	699.60	302.28	489.72	211.59	979.44	1057.97	979.44	423.19	489.72	211.59	48.97	21.16	97.94	42.32		
60.00	5365.15	766.45	361.18	536.52	252.83	1073.03	1264.13	1073.03	505.65	536.52	252.83	53.65	25.28	107.30	50.57		
70.00	6134.50	876.36	421.00	613.45	294.70	1226.90	1473.49	1226.90	589.39	613.45	294.70	61.35	29.47	122.69	58.94		
80.00	6911.99	987.43	480.84	691.20	336.59	1382.40	1682.93	1382.40	673.17	691.20	336.59	69.12	33.66	138.24	67.32		
90.00	7697.90	1099.70	540.71	769.79	378.49	1539.58	1892.47	1539.58	756.99	769.79	378.49	76.98	37.85	153.96	75.70		
100.00	8469.72	1209.96	600.53	846.97	420.37	1693.94	2101.85	1693.94	840.74	846.97	420.37	84.70	42.04	169.39	84.07		
125.00	9250.45	1321.49	746.64	925.05	522.65	1850.09	2613.24	1850.09	1045.30	925.05	522.65	92.50	52.26	185.01	104.53		
150.00	10957.48	1565.35	895.48	1095.75	626.84	2191.50	3134.20	2191.50	1253.68	1095.75	626.84	109.57	62.68	219.15	125.37		
175.00	11869.31	1695.62	1041.95	1186.93	729.37	2373.86	3646.84	2373.86	1458.73	1186.93	729.37	118.69	72.94	237.39	145.87		
200.00	13492.07	1927.44	1190.58	1349.21	833.41	2698.41	4167.04	2698.41	1666.81	1349.21	833.41	134.92	83.34	269.84	166.68		
250.00	16647.91	2378.27	1487.57	1664.79	1041.30	3329.58	5206.48	3329.58	2082.59	1664.79	1041.30	166.48	104.13	332.96	208.26		
300.00	19861.68	2837.38	1784.73	1986.17	1249.31	3972.34	6246.55	3972.34	2498.62	1986.17	1249.31	198.62	124.93	397.23	249.86		
350.00	23040.85	3291.55	2081.78	2304.09	1457.25	4608.17	7286.25	4608.17	2914.50	2304.09	1457.25	230.41	145.72	460.82	291.45		
400.00	26269.54	3752.79	2378.99	2626.95	1665.29	5253.91	8326.47	5253.91	3330.59	2626.95	1665.29	262.70	166.53	525.39	333.06		

Lead in km	Cost Per Trip Lead Charges	ConcreteBlock (FORM)		Cement, Lime, Stone Block, GI, CI, CC & AC Pipes / Sheet& Plate, Glass in packs, Distemper, AC Sheet, Fitting Iron Sheet		Bricks		Tiles Half Round Tiles /Roofing Tiles/Manlore Tiles		Steel (MS, TMT, H.Y.S.D.) Structural Steel		Flooring Tiles Ceramic/ Marbonate		Asphalt In Drum (approx Gross wt 172 kg per drum)			
		L	Rs.	Unit Cum		Unit MT.		Unit Cum		Unit Cum		Unit MT.		Unit Sqm		Unit Drums.	
				L.F.	Fuel	L.F.	Fuel	L.F.		L.F.	Fuel	L.F.	Fuel	L.F.	Fuel	L.F.	Fuel
				7.00	Comp.	10.00	Comp.	5	Fuel Comp.	5	Comp.	10.00	Comp.	100	Comp.	50	Comp.
500.00	32632.23	4661.75	2973.12	3263.22	2081.18	6526.45	10405.91	6526.45	4162.36	3263.22	2081.18	326.32	208.12	652.64	416.24		
600.00	38805.22	5543.60	3566.67	3880.52	2496.67	7761.04	12483.33	7761.04	4993.33	3880.52	2496.67	388.05	249.67	776.10	499.33		
700.00	45340.06	6477.15	4161.31	4534.01	2912.92	9068.01	14564.60	9068.01	5825.84	4534.01	2912.92	453.40	291.29	906.80	582.58		
800.00	51588.23	7369.75	4755.09	5158.82	3328.56	10317.65	16642.82	10317.65	6657.13	5158.82	3328.56	515.88	332.86	1031.76	665.71		
900.00	58469.63	8352.80	5350.80	5846.96	3745.56	11693.93	18727.79	11693.93	7491.11	5846.96	3745.56	584.70	374.56	1169.39	749.11		
1000.00	64298.32	9185.47	5943.30	6429.83	4160.31	12859.66	20801.54	12859.66	8320.62	6429.83	4160.31	642.98	416.03	1285.97	832.06		



**THEORITICAL REQUIREMENT OF MATERIALS BUILDING**

**EXCAVATION**

Sr. No.	Item	Unit	Rubble in M <sup>3</sup>	Over size metal in M <sup>3</sup>	Sand in M <sup>3</sup>	Quarry in spaul in M <sup>3</sup>
1	Providing trap rubble soiling 15 to 20cm thick	M <sup>3</sup>	1.00	-	-	0.20
2	Providing soiling using 80mm over size trap metal	M <sup>3</sup>		1.00	0.15	-

**PILE FOUNDATION**

Sr. No.	Item	Unit	Cement	Sand in M <sup>3</sup>
1	M-20 RCC cast in situ bored piles	M <sup>3</sup>	8.00 bags	0.425

**PLAIN CEMENT CONCRETE AND REINFORCED CEMENT CONCRETE**

Sr. No.	Item	Unit	Cement in bags	Screened sand in M <sup>3</sup>	Course Aggregate		
					40mm in M <sup>3</sup>	20mm in M <sup>3</sup>	12/10mm in M <sup>3</sup>
1	Plain cement concrete 1:5:10	M <sup>3</sup>	2.60	0.47	0.7	0.24	-
2	Plain cement concrete 1:4:8	M <sup>3</sup>	3.40	0.47	0.7	0.24	-
3	Plain cement concrete 1:3:6	M <sup>3</sup>	4.40	0.47	0.7	0.24	-
4	Plain cement concrete 1:2:4	M <sup>3</sup>	6.40	0.445	0.7	0.22	0.11
5	M-10 grade cement concrete	M <sup>3</sup>	4.40	0.47	0.7	0.24	-
6	M-15 grade PCC	M <sup>3</sup>	6.00	0.44	0.56	0.22	0.11
7	M-20 grade PCC	M <sup>3</sup>	7.00	0.425	0.56	0.22	0.11
8	M-15 grade cement concrete	M <sup>3</sup>	6.00	0.425	-	0.67	0.22
9	M-20 grade cement concrete	M <sup>3</sup>	7.00	0.425	-	0.57	0.28
10	M-25 cement concrete	M <sup>3</sup>	7.50	0.425	-	0.57	0.28
11	M-30 grade cement concrete	M <sup>3</sup>	8.00	0.425	-	0.57	0.28
12	M-35 grade cement concrete	M <sup>3</sup>	8.25	0.425	-	0.57	0.28
13	P & F RCC Jali 50mm thick	M <sup>2</sup>	0.06	-	-	-	-
14	P & L 50mm thick cement mortar layer in 1:8 proportion	M <sup>2</sup>	0.22	0.06	-	-	-
	M-40 grade	M <sup>3</sup>	8.50				

**BRICK MASONARY**

Sr. No.	Item	Unit	Cement in bags	Screened sand in M3	Bricks in Nos	M.S. bars in Kg.
1	First class brick masonry in CM 1:6 in plinth of inner wall / external wall.	M <sup>3</sup>	1.24	0.25	475	-
2	Second class brick work in CM 1:6 in foundation and plinth of inner wall / external wall.	M <sup>3</sup>	1.58	0.32	475	-
3	Second class brick work in CM 1:4 with pointing in CM 1:3 to exposed faces.	M <sup>3</sup>	1.42	0.254	475	-
4	First class brick work in CM 1:6 in Superstructure	M <sup>3</sup>	1.24	0.25	475	-
5	Second class brick work in CM 1:6 in superstructure	M <sup>3</sup>	1.58	0.32	475	-
6	Second class brick work in CM 1:8 in superstructure	M <sup>3</sup>	1.12	0.32	475	-
7	Second class brick work in CM 1:6 as backing in composite masonry	M <sup>3</sup>	1.58	0.32	475	-
8	Second class half brick masonry in CM 1:4 with 6mm diameter M.S. Bars	M <sup>2</sup>	0.255	0.034	57	1.76
9	Second class brick masonry in CM 1:3 for edge masonry with 6mm dia meter M.S. Bars	M <sup>2</sup>	0.21	0.021	38	1.32
10	First class brick masonry in CM 1:4 for pillars rectangular in shape	M <sup>3</sup>	2.60	0.25	475	-
11	First class brick masonry in CM 1:4 for pillars curved in shape	M <sup>3</sup>	2.60	0.25	616	-
12	Second class brick masonry in CM 1:4 for pillars rectangular in shape	M <sup>3</sup>	2.60	0.25	475	-
13	Second class brick masonry in CM 1:4 for pillars curved in shape	M <sup>3</sup>	2.60	0.25	616	-
14	Second class brick masonry coping in CM 1:6	M <sup>3</sup>	1.24	0.25	475	-
15	Fire brick masonry in fire clay 1:5 proportion	M <sup>3</sup>	-	-	480	Fire clay in Mortar in M <sup>3</sup> 0.10

**Stone masonry**

Sr. No.	Item	Unit	Cement in bags	Screened sand in M3	Trap Rubble in M <sup>3</sup>	Corner/Quins in Nos	Remark
1	UCR masonry in CM 1:6 in foundations and plinth of inner walls/external walls	M <sup>3</sup>	1.70	0.35	1.16	2	
2	UCR masonry in CM 1:3 in basement	M <sup>3</sup>	2.05	0.35	1.16	2	
3	UCR masonry in CM 1:6 in Superstructure	M <sup>3</sup>	1.70	0.35	1.16	2	
4	Random rubble masonry in CM 1:6 in foundation	M <sup>3</sup>	1.70	0.35	1.16	2	
5	Random rubble masonry in CM 1:6 in Superstructure	M <sup>3</sup>	1.70	0.35	1.16	2	
6	Random rubble masonry 1st sort in CM 1:6 in external walls of plinth	M <sup>3</sup>	1.70	0.35	1.16	2	
7	Random rubble masonry 1st sort in CM 1:6 in Superstructure	M <sup>3</sup>	0.70	0.35	1.16	2	
8	CR masonry 3rd sort in CM 1:6 in Plinth	M <sup>2</sup>	1.70	0.35	1.16	2	
9	CR masonry 3rd sort in CM 1:6 in Superstructure	M <sup>2</sup>	1.70	0.35	1.16	2	

Sr. No.	Item	Unit	Cement in bags	Screened sand in M3	Trap Rubble in M <sup>3</sup>	Corner/Quins in Nos	Trap Header in Nos	Khandki in Nos
10	CR masonry 2nd sort in CM 1:6 in plinth	M <sup>3</sup>	1.70	0.35	0.35	2	7	50
11	CR masonry 2nd sort in CM 1:6 in Superstructure	M <sup>3</sup>	1.70	0.35	0.35	2	7	50
12	CR masonry 1st sort in CM 1:6 in plinth	M <sup>3</sup>	1.50	0.30	0.35	2	7	50
13	CR masonry 1st sort in CM 1:6 in Superstructure	M <sup>3</sup>	1.50	0.30	0.35	2	7	50
14	CR masonry 2nd sort using all stones of full height in each coarse in CM 1:6 in Plinth	M <sup>3</sup>	1.70	0.35	0.35	2	7	50
15	CR masonry 2nd sort using all stones of full height in each coarse in CM 1:6 in Superstructure	M <sup>3</sup>	1.70	0.35	0.35	2	7	50

Sr. No.	Item	Unit	Cement in bags	Screened sand in M3	Laterite stone 45 x 30 x 20 cm in Nos
16	Laterite masonry in CM 1:6 in foundations	M <sup>3</sup>	1.02	0.21	45
17	Laterite masonry in CM 1:6 in Superstructure	M <sup>3</sup>	1.02	0.21	45

**WATER PROOFING TREATMENT**

Sr. No.	Item	Unit	Cement in bags	Screened sand in M <sup>3</sup>	Course Aggregate	
					20mm in M <sup>3</sup>	12/10mm in M <sup>3</sup>
1	50mm thick damp proof coarse in CC 1:2:4	M <sup>2</sup>	0.32	0.022	0.033	0.04
2	20mm thick integral finishing in CM 1:3	M <sup>2</sup>	0.18	0.020		-
3	W.P. to terrace 112mm thick	M <sup>2</sup>	0.55	0.07	0.080	-
4	W.P. of BB coba to water closet	M <sup>3</sup>	4.00	0.23	1.00	-
5	20mm thick water proof plaster in 1:3 for dado	M <sup>2</sup>	0.22	0.024	-	-
6	25mm thick water proof bedding in CM 1:3	M <sup>2</sup>	0.27	0.028	-	-

**PLASTERING & POINTING**

Sr. No.	Item	Unit	Cement in bags	Screened sand in M <sup>3</sup>	Fine aggregate in M <sup>3</sup>	Remark
1	6mm plaster in CM 1:4	M <sup>2</sup>	0.054	0.0076	-	
2	6mm plaster in CM 1:3	M <sup>2</sup>	0.07	0.0076	-	
3	12mm plaster in single coat in CM 1:5	M <sup>2</sup>	0.090	0.015	-	
4	12mm plaster in single coat in CM 1:4	M <sup>2</sup>	0.11	0.015	-	
5	12mm plaster in single coat in CM 1:3	M <sup>2</sup>	0.14	0.015	-	
6	20mm cement plaster in CM 1:3 in single coat	M <sup>2</sup>	0.228	0.024	-	
7	20mm cement plaster in CM 1:5 in two coat	M <sup>2</sup>	0.14	0.025	-	
8	20mm cement plaster in CM 1:4 in two coat	M <sup>2</sup>	0.17	0.025	-	
9	25mm thick plaster in CM 1:4 in two coat	M <sup>2</sup>	0.217	0.031	-	
10	Sand faced plaster in CM 1:4 in two coats	M <sup>2</sup>	0.25	0.033	-	
11	Rough cast plaster in two coats in CM 1:4	M <sup>2</sup>	0.25	0.021	0.012	
12	Rough cast plaster in two coats in CM 1:4 with colour pigment	M <sup>2</sup>	0.250	0.021	0.012	
13	Exterior stone crete facing in CM 1:3	M <sup>2</sup>	0.300	0.015	0.015	
14	Flush grooved pointing CM 1:3 to brick masonry	M <sup>2</sup>	0.030	0.003	-	
15	Flush grooved pointing in CM 1:3 to stone masonry	M <sup>2</sup>	0.025	0.003	-	
16	Tuck pointing in CM 1:3 to stone masonry	M <sup>2</sup>	0.050	0.005	-	
17	Weathered pointing in CM 1:3 to stone masonry	M <sup>2</sup>	0.040	0.004	-	
18	Vee pointing in CM 1:3 to stone masonry	M <sup>2</sup>	0.030	0.003	-	
19	Flush pointing in CM 1:3 to stone masonry	M <sup>2</sup>	0.025	0.003	-	

**PAVING AND FLOORING**

Sr. No.	Item	Unit	Cement in bags	Screened Sand in M <sup>3</sup>
1	Rough shahabad flooring 25 to 30mm thick on bed of 1:6 CM with CP 1:3	M <sup>2</sup>	0.135	0.022
2	Rough shahabad flooring 40 to 50mm thick on bed of 1:6 CM with CP 1:3	M <sup>2</sup>	0.14	0.022
3	Rough shahabad flooring 50 to 60mm thick on bed of 1:6 CM with CP 1:3	M <sup>2</sup>	0.15	0.022
4	Rough shahabad flooring 12 to 20mm thick on bed of 1:6 CM with CP 1:3	M <sup>2</sup>	0.135	0.022
5	Polished shahabad/tandur/kotah stone flooring 25 to 30mm thick on bed of 1:6 CM	M <sup>2</sup>	0.135	0.022
6	Polished shahabad/tandur/kotah stone flooring 25 to 30mm thick on bed of 1:6 CM with kadappa border	M <sup>2</sup>	0.135	0.022
7	Polished shahabad/tandur/kotah stone flooring 25 to 30mm thick for dado on 1:4 cement mortar plaster	M <sup>2</sup>	0.185	0.022

Sr. No.	Item	Unit	Cement in bags	Screened sand in M3	Metal	
					20mm in M3	12/10mm in M3
8	IPS flooring in 1:2:3 proportion 40mm thick	M <sup>2</sup>	0.334	0.020	0.023	0.007
9	IPS flooring in 1:2:3 proportion 50mm thick	M <sup>2</sup>	0.406	0.025	0.028	0.010
10	IPS flooring in 1:2:4 proportion 40mm thick	M <sup>2</sup>	0.300	0.018	0.027	0.080
11	IPS flooring in 1:2:4 proportion 50mm thick	M <sup>2</sup>	0.365	0.022	0.033	0.011

Sr. No.	Item	Unit	Cement in bags	Screened Sand in M <sup>3</sup>
12	Plain cement tile 25 x 25 cm flooring on bed of 1:6 cement mortar	M <sup>2</sup>	0.135	0.02
13	Plain cement tiles for dado and skirting on 1:4 cement mortar plaster	M <sup>2</sup>	0.185	0.02
14	Plain coloured cement tiles for flooring on bed of 1:6 CM	M <sup>2</sup>	0.135	0.02
15	Plain coloured cement tiles for dado on plaster of 1:4 cement mortar	M <sup>2</sup>	0.185	0.02
16	White glazed tiles 150 x 150 mm for flooring on 1:4 CM	M <sup>2</sup>	0.20	0.02
17	White glazed tiles 150 x 150 mm for dado on 1:4 cement mortar plaster	M <sup>2</sup>	0.20	0.02

Sr. No.	Item	Unit	Cement in bags	Screened Sand in M <sup>3</sup>
18	Coloured glazed tiles 150 x 150 mm for flooring on bed of 1:4 CM	M <sup>2</sup>	0.20	0.02
19	Coloured glazed tiles of 150 x 150 mm for dado on 1:4 cement mortar plaster	M <sup>2</sup>	0.20	0.02
20	Gray / White cement based marble mosaic tiles for dado and skirting on 1:4 cement plaster	M <sup>2</sup>	0.135	0.02
21	Gray / White cement base marble mosaic tiles for dado and skirting on 1:4 cement plaster bed	M <sup>2</sup>	0.185	0.02
22	P & L Machine cut marble slab 60 x 45 cm flooring on 1:6 cement mortar bed	M <sup>2</sup>	0.135	0.022
23	P & L Machine cut marble slab dado and skirting on 1:4 cement mortar plaster	M <sup>2</sup>	0.185	0.02

Sr. No.	Item	Unit	Cement in bags	Screened sand in M <sup>3</sup>	Crushed metal 12/10mm in M <sup>3</sup>
24	P & L in situ cement marble mosaic 10mm thick for flooring	M <sup>2</sup>	0.20	0.0136	0.0272

Sr. No.	Item	Unit	Cement in bags	Screened Sand in M <sup>3</sup>
25	Providing and laying in situ cement mosaic dado and skirting 6mm thick on plaster in CM 1:3	M <sup>2</sup>	0.20	0.02
26	P & L flooring of Tukda mosaic/china mosaic (broken mosaic tile pieces) on bed of 1:4 cement mortar	M <sup>2</sup>	0.30	0.024
27	P & L polished shahabad/ tandur kotah stone slab for treads and risers on bed of 1:4 CM	M <sup>2</sup>	0.185	0.02
28	Polished shahabad stone 40 to 50 mm for treads and risers in CM 1:4	M <sup>2</sup>	0.185	0.02
29	Plain cement tiles/plain coloured cement tiles for treads and risers on bed of 1:4 CM	M <sup>2</sup>	0.185	0.02
30	Marble mosaic tiles for treads and risers on bed of 1:4 cement mortar	M <sup>2</sup>	0.185	0.02
31	Marble slabs 20mm thick for treads and risers	M <sup>2</sup>	0.185	0.02
32	Rough shahabad stone 40 to 50 mm for sills on bed of 1:4 CM	M <sup>2</sup>	0.185	0.02
33	Polished shahabad tandur/kotah/kadappa stone 40 to 50 mm thick sill on bed of 1:4 CM	M <sup>2</sup>	0.185	0.02
34	Providing sills of precast marble mosaic tiles on bed of 1:4 CM	M <sup>2</sup>	0.185	0.02
35	White marble slabs dado and skirting	M <sup>2</sup>	0.185	0.02

36	35mm thick precast polished chequered tiles / colored cement tiles and treads and plain cement tiles for risers	M <sup>2</sup>	0.16	0.02
37	Polished chequered marble mosaic tiles 20 x 32 cm size for flooring / treads	M <sup>2</sup>	0.16	0.02
38	Marble/Kadappa/tandur stone partition for urinals	M <sup>2</sup>	0.05	0.005
39	White glazed tiles / colour glazed tiles of 200 x 100mm for flooring on 1: 4 CM	M <sup>2</sup>	0.22	0.02
40	White glazed / colour glazed tiles of 200 x 100mm for dado and skirting	M <sup>2</sup>	0.21	0.02
41	25mm thick polished kadappa sills on bed of 1:4 CM	M <sup>2</sup>	0.04	0.02
42	30 x 30 cm ceramic tile flooring on bed of 1:4 CM	M <sup>2</sup>	0.20	0.017

<b>Bd - W. Miscellaneous</b>					
Sr. No.	Item	Unit	Cement in bags	Screened sand in M3	Crushed metal 12/10mm in M3
1	Guiniting by dry mix process in 1:3 1/2 CM for ceiling and soffit				
(A)	a) 20mm thick	M <sup>2</sup>	0.23	0.028	-
	b) 25mm thick	M <sup>2</sup>	0.29	0.035	-
	c) 40mm thick	M <sup>2</sup>	0.46	0.056	-
	d) 50mm thick	M <sup>2</sup>	0.576	0.070	-
(B)	Guiniting by dry mix process in 1:3 1/2 CM for beams				
	a) 20mm thick	M <sup>2</sup>	0.237	0.028	-
	b) 25mm thick	M <sup>2</sup>	0.296	0.036	-
	c) 40mm thick	M <sup>2</sup>	0.472	0.057	-
	d) 50mm thick	M <sup>2</sup>	0.600	0.072	-
(C)	Guiniting by dry mix process in 1:3 1/2 CM for columns				
	a) 20mm thick	M <sup>2</sup>	-	-	-
	b) 25mm thick	M <sup>2</sup>	0.256	0.034	-
	c) 40mm thick	M <sup>2</sup>	0.444	0.054	-
	d) 50mm thick	M <sup>2</sup>	0.550	0.067	-
(1)	Vertical surfaces other than columns in 1:3 1/2 CM				
	a) 20mm thick	M <sup>2</sup>	0.206	0.025	-
	b) 25mm thick	M <sup>2</sup>	0.257	0.031	-
	c) 40mm thick	M <sup>2</sup>	0.411	0.050	-
	d) 50mm thick	M <sup>2</sup>	0.514	0.062	-

2	P & E 1.50m high wire fencing wire fencing with 7 rows of bar bed wire fencing with MS angles at 2.50 M c/c in cc 1:4:8 blocks of 45 x 45 x 45cm	M	0.132	0.018	0.036
3	P & E 1.50m high wire fencing wire fencing with 7 rows of bar bed wire fencing with wooden round bullies	M	0.132	0.018	0.036
4	P & E chain line fencing with CC 1:4:8 blocks of 45 x 45 x 45cm at 1.75m c/c	M	0.310	0.042	0.085

### Bd - V. Water Supply & Sanitary

Sr. No.	Item	Unit	Cement in bags	Sand in M <sup>3</sup>	Bricks in Numbers	Metal in M <sup>3</sup>
1	Water meter chamber in brick masonry with cement plaster 15mm dia to 100mm dia	No.	0.52	0.103	134	0.025
2	45cm wide steel ladder with CC 1:2:4 block of 60 x 30 x 30 cm	No.	0.35	0.024	-	0.048
3	Indian type W.C. pan	No.	0.20	0.02	-	-
4	Orissa type W.C. pan	No.	0.25	0.018	-	-
5	European type W.C. pan	No.	0.25	0.035	-	-
6	Renewing Indian type W.C. pan	No.	0.25	0.035	-	-
7	Full stall type urinal	No.	0.10	0.01	-	-
8	Lipped flat back type urinal	No.	0.10	0.01	-	-
9	Half round white glazed	No.	0.15	0.02	-	0.02
10	Half round salt glazed stone ware pipe in brick masonry	M	0.10	0.02	31	-
11	White glazed earthenware wash hand basin	No.	0.10	0.01	-	-
12	White glazed earthenware sink	No.	0.10	0.01	-	-
13	Nahani trap 8 cm or 10cm dia	No.	0.10	0.01	-	-
14	Gully trap 15 x 10 cm with brick chamber	No.	0.55	0.08	52	0.05
15	Brick masanory inspection chamber 60 x 45 cm and 60cm depth with cement plaster	No.	2.33	0.35	350	0.194
16	Brick masanory inspection chamber 90 x 45 cm and 60cm depth with cement plaster	No.	3.53	0.54	527	0.3
17	Intercepting trap chamber 90 x 45 cm with brick masonry with cement plaster	No.	3.90	0.57	450	0.45
18	Circular manhole 45cm diameter at top and 90cm at bottom and 1.80 to 2.70m depth with cement plaster	No.	6.70	-	-	-



Sr. No.	Item	Unit	Cement in bags
19	Cast iron rain water pipe 75/100/150mm dia	M	0.003
20	Asbestos cement rain water pipe 100/150mm dia	M	0.005
21	Cast iron soil/waste water/vent pipe of 80/100/150mm dia	M	0.007
22	Asbestos cement soil/waste water/vent pipe of 75/100/150 mm dia	M	0.007
23	Salt glazed stoneware pipe 100mm dia	M	0.035
24	Salt glazed stoneware pipe 150mm dia	M	0.045
25	Salt glazed stoneware pipe 225mm dia	M	0.080

**THEORITICAL REQUIREMENT OF MATERIALS OF BLACK TOP ROAD ITEMS  
(AS PER STANDARD SPECIFICATIONS)**

Sr. No	Item	Unit	Asphalt in Kg	Coarse Aggregate					
				40mm in m <sup>3</sup>	25mm in m <sup>3</sup>	20mm in m <sup>3</sup>	12mm in m <sup>3</sup>	10mm in m <sup>3</sup>	6mm in m <sup>3</sup>
1	Providing 50mm thick full grout with seal coat	100 M <sup>2</sup>	Dose 500.00 Seal coat <u>125.00</u> Total 625.00	6.00	-	-	1.50	1.20	-
2	Providing 50mm thick semi frouit with seal coat	100 M <sup>2</sup>	Dose 275.00 Seal coat <u>125.00</u> Total 400.00	6.00	-	-	1.50	1.20	-
3	Providing 40mm thick premix carpet	100 M <sup>2</sup>	304	-	2.45	-	2.73	-	0.60
4	Providing 25mm thick premix carpet	100 M <sup>2</sup>	205	-	-	1.85	-	1.20	0.60
5	Providing 20mm thick premix carpet	100 M <sup>2</sup>	156	-	-	-	1.83	0.90	0.15
6	Single coat surface dressing on WBM surface	100 M <sup>2</sup>	200	-	-	-	1.50	-	-
7	Single coat surface dressing on BT surface	100 M <sup>2</sup>	125	-	-	-	1.05	-	-
8	Two coat surface dressing	100 M <sup>2</sup>	Dose 225.00 Seal coat <u>125.00</u> Total 350.00	-	-	-	1.80	1.00	-
9	Bituminious liquid seal coat	100 M <sup>2</sup>	98	-	-	-	-	-	0.90
10	50mm thick special grout bituminious surface including tack coat and seal coat	100 M <sup>2</sup>	Tack coat 73.50 Dose 40.00 Seal coat <u>97.50</u> Total 611.00	-	-	-	1.80	0.90	-
11	Tack coat on WBM surface	100 M <sup>2</sup>	100	-	-	-	-	-	-
12	Tack coat on BT surface	100 M <sup>2</sup>	50	-	-	-	-	-	-
13	Emulsion tack coat on WBM surface	100 M <sup>2</sup>	35	-	-	-	-	-	-
14	Emulsion tack coat on BT surface	100 M <sup>2</sup>	25	-	-	-	-	-	-
15	25mm thick hot mix hot laid carpet	100 M <sup>2</sup>	209	-	-	1.85	-	1.20	0.60
16	20mm thick hot mix laid carpet(open graded premix carpet)	100 M <sup>2</sup>	146	-	-	1.83	-	0.90	0.15
17	a) 75mm thick bituminious bound macadam surface on BT surface	100 M <sup>2</sup>	250	9.00	-	1.5	1.80	-	-
18	b) On WBM surface	100 M <sup>2</sup>	200	9.00	-	1.5	1.80	-	-
19	Granular sub-base Shoulder drain	M <sup>3</sup> M		HB Metal 40mm in M <sup>3</sup>					

**THEORITICAL MATERIAL REQUIREMENT  
AS PER STANDARD SPECIFICATIONS  
(REQUIREMENT OF MATERIALS SHALL BE AS PER ACTUAL JOB MIX  
BRIDGE AND C.D. WORKS**

Sr. No.	Item	Unit	Cement in bags	Screened sand in M <sup>3</sup>	Course Aggregate		
					40mm in M <sup>3</sup>	20mm in M <sup>3</sup>	12/10mm in M <sup>3</sup>
1	Plain cement concrete 1:5:10	M <sup>3</sup>	2.60	0.47	0.94	-	-
2	Plain cement concrete 1:4:8	M <sup>3</sup>	3.40	0.47	0.94	-	-
3	Plain cement concrete 1:3:6	M <sup>3</sup>	4.40	0.47	0.70	0.24	-
4	Plain cement concrete 1:2:4	M <sup>3</sup>	6.40	0.445	-	0.67	0.22
5	M-10 grade concrete	M <sup>3</sup>	4.40	0.47	0.70	0.24	-
6	M-15 grade concrete	M <sup>3</sup>	6.00	0.445	-	0.67	0.22
7	M-20 grade concrete	M <sup>3</sup>	7.00	0.445	-	0.67	0.22
8	M-25 grade concrete	M <sup>3</sup>	7.50	0.445	-	0.67	0.22
9	M-30 grade concrete	M <sup>3</sup>	8.00	0.425	-	0.57	0.28
10	M-35 grade concrete	M <sup>3</sup>	8.25	0.47	-	0.57	0.28
11	Cast in situ abutment and piers in M-10	M <sup>3</sup>	4.40	0.47	0.70	0.57	-
12	Cast in situ abutment and piers in M-15	M <sup>3</sup>	6.00	0.47	0.70	0.24	-
13	Cast in situ abutment and piers in M-20	M <sup>3</sup>	7.00	0.47	0.70	0.24	-
14	Cast in situ abutment and piers in M-10 with 15% plum	M <sup>3</sup>	3.90	0.40	0.55	0.24	0.15
15	Cast in situ abutment and piers in M-15 with 15% plum	M <sup>3</sup>	5.80	0.40	0.55	0.24	0.15

Sr. No.	Item	Unit	Cement in bags	Screened sand in M <sup>3</sup>	Trap Rubble in M <sup>3</sup>	Corner/Quins in Nos	Trap Header in Nos	Khandki in Nos
16	CR masonry in CM 1:5 for parapet with Khandki facing and pointing in CM 1:3	M <sup>3</sup>	2.90	0.28	12	-	0.17	110
17	Rubble filling behind the abutment	M <sup>3</sup>	-	-	-	-	1.00	- Gravel
18	Trap rubble filling in foundation	M <sup>3</sup>	-	-	-	-	1.00	in
19	Providing Khandki paving of 23cm thick in 1:3 cement mortar over 15cm bed of CC 1:4:8 and poiting in CM 1:3	M <sup>3</sup>	1.21	0.15	40mm crushed metal in m <sup>3</sup> 0.141	Khandki in Nos 5		M <sup>3</sup> 0.33

### RCC PIPES

Sr. No.	Item	Unit	Cement in bags	Sand in M3	Weight of pipe in kg./m.	
					NP-2 pipes	NP-3 pipes
1	P & L cc pipes of NP-2 class/ IRC pipes of NP-3 class					
	i) 80mm $\varnothing$	M	-	-	20	-
	ii) 100mm $\varnothing$	M	-	-	24	-
	iii) 150mm $\varnothing$	M	-	-	33	-
	iv) 250mm $\varnothing$	M	-	-	52	-
	v) 300mm $\varnothing$	M	-	-	75	-
	vi) 350mm $\varnothing$	M	-	-	92	240
	vii) 400mm $\varnothing$	M	-	-	104	269
	viii) 450mm $\varnothing$	M	0.12	0.009	128	297
	ix) 500mm $\varnothing$	M	-	-	141	325
	x) 600mm $\varnothing$	M	0.16	0.011	193	410
	xi) 700mm $\varnothing$	M	-	-	223	470
	xii) 800mm $\varnothing$	M	0.188	0.012	287	604
	xiii) 900mm $\varnothing$	M	0.22	0.0154	358	754
	xiv) 1000mm $\varnothing$	M	0.25	0.017	438	829
	xv) 1100mm $\varnothing$	M	-	-	525	1054
	xvi) 1200mm $\varnothing$	M	0.26	0.018	620	1140

**THEORITICAL MATERIAL REQUIREMENT  
M.O.S.T. 2013 EDITION AND DATA BOOK**

(Grading Mateial shall be as per actual job mix formula wherever applicable)

**1) Primer coat over Granular base (Table : 500.1 Page 145)**

Cut back MC-70 or any other  
bitumen mixed with Diesel

- |  |                               |
|--|-------------------------------|
| i) Low porosity surface such as wet mix macadam and waterbound macadam | 6 to 9 kg/10 m <sup>2</sup>   |
| ii) Medium porosity surface such as cement stabilised soil base        | 12 to 15 kg/10 m <sup>2</sup> |
| iii) High porosity surface such as grave base                          | 12 to 15 kg/10 m <sup>2</sup> |

**2) Bituminous tack coat (Table : 500.2 Page 149)**

- |  |                                   |
|--|-----------------------------------|
| i) Normal bituminous surfaces              | 2.00 to 2.50 kg/10 m <sup>2</sup> |
| ii) Dry and hungry bituminous surfaces     | 2.50 to 3.00 kg/10 m <sup>2</sup> |
| iii) Granular surfaces treated with primer | 2.50 to 3.00 kg/10 m <sup>2</sup> |
| iv) Non bituminous surfaces                |                                   |
| a) Granular base (Not primed)              | 3.50 to 4.00 kg/10 m <sup>2</sup> |
| b) Cement concrete pavement                | 3.00 to 3.50 kg/10 m <sup>2</sup> |

**3A) Bituminous macadam with 4% bitumen by weight of total mix (Data book) (Density 2.20) Clause no. 504 (Excluding primer / tack coat)**

- |                     |                 |                                  |
|---------------------|-----------------|----------------------------------|
| A) Bitumen          |                 | 88 Kg/M <sup>3</sup>             |
| B) Coarse aggregate | 11.20 to        | 0.835 M <sup>3</sup>             |
| C) Chipping         | 2.80 to 11.20mm | 0.209 M <sup>3</sup>             |
| D) Fine aggregate   | Below 2.80mm    | 0.366 M <sup>3</sup>             |
|                     |                 | <b>Total 1.380 M<sup>3</sup></b> |

**3B) Bituminous macadam with 3.50% bitumen by weight**

- |                     |                 |                                  |
|---------------------|-----------------|----------------------------------|
| A) Bitumen          |                 | 77 Kg/M <sup>3</sup>             |
| B) Coarse aggregate | 11.20 to        | 0.835 M <sup>3</sup>             |
|                     | 26.40mm         |                                  |
| C) Chipping         | 2.80 to 11.20mm | 0.209 M <sup>3</sup>             |
| D) Fine aggregate   | Below 2.80mm    | 0.366 M <sup>3</sup>             |
|                     |                 | <b>Total 1.380 M<sup>3</sup></b> |

**3C) Bituminous macadam with 3% bitumen by weight of total mix**

A) Bitumen		66 Kg/M <sup>3</sup>
B) Coarse aggregate	11.20 to 26.40mm	0.835 M <sup>3</sup>
C) Chipping	2.80 to 11.20mm	0.209 M <sup>3</sup>
D) Fine aggregate	Below 2.80mm	0.366 M <sup>3</sup>
		<b>Total 1.380 M<sup>3</sup></b>

**4) Bituminous modified Penetration macadam (IRC:SP-20:2002)**

Compacted Thickness	Bitumen	Coarse Aggregate	Key Aggregate
50mm ---	17.5Kg/10M <sup>2</sup>	0.60 M <sup>3</sup> /10 m <sup>2</sup>	0.18 M <sup>3</sup> /10 m <sup>2</sup>
75mm ---	20.00Kg/10M <sup>2</sup>	0.90 M <sup>3</sup> /10 m <sup>2</sup>	0.18 M <sup>3</sup> /10 m <sup>2</sup>

**5) Built up Spray Grout (Excluding Primer/ Tack coat) clause no. 506**

A) Bitumen		30 Kg/10 sqm	
B) Coarse aggregate	11.20 to 26.40mm	Crushed stone coarse aggregate passing 53.00 mm and retained on 2.80 mm	1 cum per 10 sqm
C) Fine aggregate	Below 2.80mm	Key aggregate passing 22.40 mm and retained on 2.80 mm	0.13 cum per 10 sqm

**Total 1.13 M<sup>3</sup>**

**6) Dense Bituminous Macadam (Density 2.30) 40mm compacted thickness with bitumen at 5% of total mix (Excluding primer coat/tack coat) Clause no. 507**

i. Bitumen	120.00 Kg	
ii. 20mm	0.61 M <sup>3</sup>	
iii. 10mm	0.459 M <sup>3</sup>	} 1.528 M <sup>3</sup>
iv. 5.60mm and below	0.459 M <sup>3</sup>	
v. Cement filler	0.046 M <sup>3</sup>	

**7 A) Surface dressing (Table 500.13 page 170)**

	<b>Bitumen</b>	<b>Stone chipping</b>
i) Single coat surface dressing or 1st coat of two coat surface dressing		
i) Over B.T. Surface	27.50 kg/10m <sup>2</sup>	10 mm size 0.105 m <sup>3</sup> / 10 m <sup>2</sup>
ii) Over B.T. W.B.M.	20.00 kg/10m <sup>2</sup>	12 mm size 0.15 m <sup>3</sup> /10 <sup>2</sup>
ii) Second coat of two coat surface dressing (or as a renewal coat)	10.00 Kg/10M <sup>2</sup>	0.10 M <sup>3</sup> /10M <sup>2</sup>
i) Single coat surface dressing or 1st coat of two coat surface dressing	12 to 14 Kg/10M <sup>2</sup>	0.10 to 0.12 M <sup>3</sup> /10M <sup>2</sup>
i) 1st Coat	22.50 kg/10 m <sup>2</sup>	10 mm size 0.18 m <sup>3</sup> /10m <sup>2</sup>
ii) 2nd Coat	12.50 kg/10 m <sup>2</sup>	12 mm size 0.10 m <sup>3</sup> / 10m <sup>2</sup>

**8) Open graded premix carpet 20mm thick (Table 500.16 Page 178) Clause no. 509**

i) 13.20mm Nominal size	0.18 M <sup>3</sup> /10M <sup>2</sup>
ii) 11.20mm Nominal size	0.09 M <sup>3</sup> /10M <sup>2</sup>
iii) Bitumen binder	14.6 Kg/10M <sup>2</sup>

**9) Mix seal surfacing (Excluding tack coat) Data book clause no. 510**

	<b>Bitumen</b>	<b>13.20mm</b>	<b>11.20mm</b>	<b>5.60mm</b>	<b>5.60mm &amp; below</b>	<b>Crushed Sand</b>
Type - A	22.00 Kg/10M <sup>2</sup>	-	0.10 M <sup>3</sup> /10M <sup>3</sup>	0.12 M <sup>3</sup> /10M <sup>2</sup>	-	0.05 M <sup>3</sup> /10M <sup>2</sup>
Type - B	19.00 Kg/10M <sup>2</sup>	0.04 M <sup>3</sup> /10M <sup>3</sup>	0.14 M <sup>3</sup> /10M <sup>2</sup>	-	0.09 M <sup>3</sup> /10M <sup>2</sup>	

**10) Bituminous Concrete** (Excluding primer /tack coat with cement filler)  
Density 2.40 Data Book bitumen content at 6.50 %

i) Coarse aggregate	(64%)	1.006M <sup>3</sup>	Total
ii) Fine aggregate	(36%)	0.566M <sup>3</sup>	1.572M <sup>3</sup>
iii) Cement	3%	0.072MT/M <sup>3</sup>	
iv) Bitumen at	6.50%	156 Kg/M <sup>3</sup>	

**11) Seal coat (Data Book)**

i) Stone chipping	6.70mm	0.09 M <sup>3</sup> /10M <sup>2</sup>	
ii) Bitumen		9.80 Kg/10M <sup>2</sup>	

**12) P & L semidense bituminous concrete with 5.50% Bitumen** Clause No. 511  
(Excluding primer/tack coat)

.1. Crushed stone			
i)	13.20mm	0.40 M <sup>3</sup> /M <sup>3</sup>	
ii)	11.20mm	0.64 M <sup>3</sup> /M <sup>3</sup>	Total
iii)	5.60mm and below	0.44 M <sup>3</sup> /M <sup>3</sup>	1.48 M <sup>3</sup>
.2. Bitumen			
		124 Kg/M <sup>3</sup>	

**13) Providing and applying premixed seal coat type "B"** Clause no. 513

i)	Sand or grit passing 2.36mm and retained on 180 micron	0.060 M <sup>3</sup> /10M <sup>2</sup>	
ii)	Bitumen	6.80 Kg/10M <sup>2</sup>	



**THEORITICAL MATERIAL REQUIREMENT  
M.O.S.T. 2013 EDITION AND DATA BOOK  
(REQUIREMENT OF MATERIALS SHALL BE AS PER ACTUAL JOB MIX  
BRIDGES AND CULVERTS**

Sr. No. of Data book	Item	Unit	Cement in MT	Coarse Sand in M <sup>3</sup>	Course Aggregate		
					40mm in M <sup>3</sup>	20mm in M <sup>3</sup>	10mm in M <sup>3</sup>
2.3 (i)	<b>PCC / RCC in open foundation</b>						
	a) PCC M-25 grade	M <sup>3</sup>	0.40	0.365	0.382	0.304	0.294
	b) PCC M-30 grade	M <sup>3</sup>	0.42	0.365	0.382	0.299	0.304
	c) RCC M-35 grade	M <sup>3</sup>	0.475	0.40	-	0.57	0.28
2.3 (ii)	d) RCC M-40 grade	M <sup>3</sup>	0.50	0.40	-	0.57	0.28
	a) PCC M-15	M <sup>3</sup>	0.33	0.45	0.52	0.22	0.11
	b) i) PCC M-20	M <sup>3</sup>	0.38	0.45	0.57	0.22	0.11
	c) ii) RCC M-20	M <sup>3</sup>	0.40	0.425	-	0.57	0.28
2.5 (i)	c) RCC M-25	M <sup>3</sup>	0.41	0.45	-	0.63	0.27
	<b>a) PCC/RCC Well Curb</b>						
	i) RCC M-35 grade	M <sup>3</sup>	0.475	0.40	-	0.57	0.28
	ii) RCC M-40 grade	M <sup>3</sup>	0.50	0.40	-	0.57	0.28
	<b>b) Well Steining</b>						
	i) PCC M-25 grade	M <sup>3</sup>	0.40	0.365	0.382	0.304	0.294
	ii) PCC M-30 grade	M <sup>3</sup>	0.42	0.365	0.382	0.304	0.299
	iii) RCC M-35 grade	M <sup>3</sup>	0.475	0.40	-	0.57	0.28
	iv) RCC M-40 grade	M <sup>3</sup>	0.50	0.40	-	0.57	0.28
	c) Bottom Plug M-25	M <sup>3</sup>	0.44	0.365	0.382	0.304	0.299
2.5 (ii)	d) Top & Intermediate plug in PCC M-25	M <sup>3</sup>	0.40	0.365	0.382	0.304	0.294
	e) Well cap in RCC M-35	M <sup>3</sup>	0.46	0.365	0.382	0.304	0.299
	<b>a) Well curb</b>						
	i) RCC M-20	M <sup>3</sup>	0.40	0.425	-	0.57	0.28
	ii) RCC M-25	M <sup>3</sup>	0.41	0.45	-	0.63	0.27

	<b>b) Well Steining</b>						
	b) i) PCC M-15	M <sup>3</sup>	0.33	0.45	0.52	0.22	0.11
	c) ii) a) PCC M-20	M <sup>3</sup>	0.38	0.45	0.57	0.22	0.11
	c) iii) b) RCC M-20	M <sup>3</sup>	0.40	0.425	-	0.57	0.28
	b) iii) RCC M-25	M <sup>3</sup>	0.41	0.45	-	0.63	0.27
	<b>c) Bottom Plug</b>						
	PCC M-20 ggrade	M <sup>3</sup>	0.418 (including 10% extra)	0.45	0.57	0.22	0.11
	<b>d) Top &amp; Intermediate plug</b>						
	PCC M-15	M <sup>3</sup>	0.33	0.45	0.52	0.22	0.11
	<b>e) Well cap</b>						
	i) RCC M-20 grade	M <sup>3</sup>	0.38	0.45	0.57	0.22	0.11
	ii) RCC M-25 grade	M <sup>3</sup>	0.40	0.365	0.382	0.304	0.299
	iii) RCC M-30 grade	M <sup>3</sup>	0.42	0.365	0.382	0.304	0.299
<b>3.3</b>	<b>a) PCC/RCC for sub structure</b>						
	i) PCC M-25 grade	M <sup>3</sup>	0.40	0.365	0.382	0.304	0.299
	ii) PCC M-30 grade	M <sup>3</sup>	0.42	0.365	0.382	0.299	0.304
	iii) RCC M-35 grade	M <sup>3</sup>	0.46	0.365	0.382	0.304	0.299
	iv) RCC M-40 grade	M <sup>3</sup>	0.50	0.40	-	0.57	0.28
	<b>b) PCC/RCC for sub</b>						
	i) PCC M-15 grade	M <sup>3</sup>	0.33	0.45	0.52	0.22	0.11
	ii) PCC M-20 grade	M <sup>3</sup>	0.38	0.45	0.57	0.22	0.11
	iii) RCC M-20 grade	M <sup>3</sup>	0.40	0.425	-	0.57	0.28
	iv) RCC M-30 grade	M <sup>3</sup>	0.41	0.45	-	0.63	0.27
	v) RCC M-30 grade	M <sup>3</sup>	0.45	0.43	-	0.58	0.28
<b>4.1</b>	<b>i) RCC Superstructure</b>						
	a) RCC M-35 grade	M <sup>3</sup>	0.475	0.40	-	0.57	0.28
	b) RCC M-40 grade	M <sup>3</sup>	0.50	0.40	-	0.57	0.28
	ii) a) RCC M-25 grade	M <sup>3</sup>	0.41	0.45	-	0.63	0.27
	b) RCC M-30 grade	M <sup>3</sup>	0.45	0.43	-	0.58	0.28

<b>4.2</b>	<b>Prestressed concrete</b>						
	a) M-35 grade	M <sup>3</sup>	0.475	0.40	-	0.57	0.28
	b) M-40 grade	M <sup>3</sup>	0.50	0.40	-	0.57	0.28
	c) M-45 grade	M <sup>3</sup>	0.52	0.40	-	0.57	0.28
	d) M-50 grade	M <sup>3</sup>	0.54	0.40	-	0.57	0.28
<b>4.5</b>	<b>RCC Wearing Coarse</b>						
	M-30	M <sup>3</sup>	0.45	0.43	-	0.58	0.28
<b>4.8</b>	<b>RCC Railing M-30</b>		0.021	0.02	-	0.027	0.013
<b>4.12</b>	<b>RCC Approach slab</b>						
	i) M-25 grade	M <sup>3</sup>	0.41	0.45	-	0.63	0.27
<b>4.13</b>	<b>PCC Leveling coarse of M-15 below approach slab</b>	M <sup>3</sup>	0.33	0.45	0.52	0.22	0.11
<b>1.3 &amp; 4</b>	<b>PCC Blocks</b>						
	M-15	M <sup>3</sup>	0.33	0.45	0.52	0.22	0.11
	<b>Culverts</b>						
	PCC 1:4:8	M <sup>3</sup>	0.17	0.47	0.89	-	-
	PCC 1:3:6	M <sup>3</sup>	0.22	0.47	0.89	-	-
	PCC M-15 grade	M <sup>3</sup>	0.33	0.45	-	0.85	-
	PCC M-20 grade	M <sup>3</sup>	0.40	0.425	-	0.95	-

**STATEMENT OF MATERIAL REQUIRED FOR VARIOUS WBM & B.T. ITEMS**

<b>Sr. No.</b>	<b>Item of Works</b>	<b>Ref. of e-ssr 2019-20 item no.</b>	<b>Material</b>	<b>Material Requirement</b>	<b>Per Unit</b>
1	<b>Granular Sub Base (GSB)</b> Plant Mix Method and Grading -I Material	3.01	53 mm to 9.5 mm	0.640	Cum/Cum
			9.5 mm to 2.36 mm	0.256	Cum/Cum
			2.36 mm below	0.384	Cum/Cum
2	<b>Granular Sub Base (GSB)</b> Plant Mix Method and Grading -II Material	3.02	26.5 mm to 9.5 mm	0.448	Cum/Cum
			9.5 mm to 2.36 mm	0.320	Cum/Cum
			2.36 mm below	0.512	Cum/Cum
3	<b>Granular Sub Base (GSB)</b> Plant Mix Method and Grading -III Material	3.03	9.50 mm to 4.75 mm	0.448	Cum/Cum
			4.75. mm to 2.36 mm	0.160	Cum/Cum
			2.36 mm below	0.672	Cum/Cum
4	<b>Granular Sub Base (GSB)</b> Mix in Place Method and Grading -I Material	3.04	53 mm to 9.5 mm	0.640	Cum/Cum
			9.5 mm to 2.36 mm	0.256	Cum/Cum
			2.36 mm below	0.384	Cum/Cum
5	<b>Granular Sub Base (GSB)</b> Mix in Place Method and Grading -II Material	3.05	26.5 mm to 9.5 mm	0.448	Cum/Cum
			9.5 mm to 2.36 mm	0.320	Cum/Cum
			2.36 mm below	0.512	Cum/Cum
6	<b>Granular Sub Base (GSB)</b> Mix in Place Method and Grading -III Material	3.06	9.50 mm to 4.75 mm	0.448	Cum/Cum
			4.75. mm to 2.36 mm	0.160	Cum/Cum
			2.36 mm below	0.672	Cum/Cum
7	<b>WBM Grading - I</b> Using Screening - Type A	3.18	90 mm to 45 mm	1.21	Cum/Cum
			Type A 13.2 mm	0.270	Cum/Cum
			Binding material	0.08	Cum/Cum
8	<b>WBM Grading - I</b> Using Screening - Type B	3.19	90 mm to 45 mm	1.21	Cum/Cum
			Type B 11.2 mm	0.240	Cum/Cum
			Binding material	0.08	Cum/Cum

Sr. No.	Item of Works	Ref. of e-ssr 2019-20 item no.	Material	Material Requirement	Per Unit
9	<b>WBM Grading - II</b> Using Screening - Type B	3.2	63 mm to 45 mm	1.21	Cum/Cum
			Type B 11.2 mm	0.240	Cum/Cum
			Binding material	0.08	Cum/Cum
10	<b>50 mm Modified Penetration Mecadam (MPM) over WBM</b> CB-30% & HB-70%	3.37a	HB metal	0.042	Cum/Sqm
			CB metal	0.033	Cum/Sqm
			Bulk Bitumen (VG-30)	0.00175	M.T./Sqm
11	<b>50 mm Modified Penetration Mecadam (MPM) over WBM</b>	3.37b	CB metal	0.075	Cum/Sqm
			Bulk Bitumen (VG-30)	0.00175	M.T./Sqm
12	<b>50 mm Modified Penetration Mecadam (MPM) over BT</b> CB-30% & HB-70%	3.38a	HB metal	0.042	Cum/Sqm
			CB metal	0.033	Cum/Sqm
			Bulk Bitumen (VG-30)	0.00175	M.T./Sqm
13	<b>50 mm Modified Penetration Mecadam (MPM) over BT</b>	3.38b	CB metal	0.075	Cum/Sqm
			Bulk Bitumen (VG-30)	0.00175	M.T./Sqm
14	<b>75 mm Modified Penetration Mecadam (MPM) over WBM</b> CB-30% & HB-70%	3.35a	HB metal	0.063	Cum/Sqm
			CB metal	0.045	Cum/Sqm
			Bulk Bitumen (VG-30)	0.002	M.T./Sqm
15	<b>75 mm Modified Penetration Mecadam (MPM) over WBM</b>	3.35b	CB metal	0.108	Cum/Sqm
			Bulk Bitumen (VG-30)	0.002	M.T./Sqm
16	<b>75 mm Modified Penetration Mecadam (MPM) over BT</b> CB-30% & HB-70%	3.36a	HB metal	0.063	Cum/Sqm
			CB metal	0.045	Cum/Sqm
			Bulk Bitumen (VG-30)	0.002	M.T./Sqm
			Bulk Bitumen (VG-10)	0.0003	M.T./Sqm
17	<b>75 mm Modified Penetration Mecadam (MPM) over BT</b> CB-100%	3.36b	CB metal	0.108	Cum/Sqm
			Bulk Bitumen (VG-30)	0.002	M.T./Sqm
			Bulk Bitumen (VG-10)	0.0003	M.T./Sqm

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**BASIC QUALITY CONTROL**

**TESTS & THEIR FREQUENCIES**

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**BASIC QUALITY CONTROL TESTS& THEIR FREQUENCIES**

**FLEXIBLE PAVEMENT.**

**A) Sub-grades**

<b>S. No.</b>	<b>Type of Construction</b>	<b>Test</b>	<b>Frequency (Min.)</b>	<b>Reference</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1)	<b>Subgrade /Earth work. &amp; Earthen Shoulders</b>	i) CBR. ii) Plastic Index. iii) Moisture Content Prior to compaction. iv) Density of compacted layer.	One test (average of 3 specimens) per 3000 cu.m. 2 test per 3000 cum. 2 test per 3000 cum. One set of 10 measurements of Density for each 3000 sqm. on each layer.	MOR T & H Specifications 2013 Section 900 ( 903.2)

**B) Sub-base & base work.**

<b>S. No.</b>	<b>Type of Construction</b>	<b>Test</b>	<b>Frequency (min.)</b>	<b>Reference</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1)	<b>Lime/Cement /Fly Ash Stabilised Soil Sub Base.</b>	<b>A) <u>Quality of cement</u></b> a) Consistency. b) Initial & Final setting time. c) Fineness. d) Specific Gravity. e) Soundness. f) Compressive strength.	One test for each consignment subject to a minimum of one test per 5 tonnes.	MORT & H Specifications 2013 Section 900 (Table 900-3)

		<p><b>B)Quality of FlyAsh:-</b></p> <p>i) Specific Gravity.</p> <p>ii)Fineness.</p> <p>iii) CBR</p> <p>iv) Moisture Content prior to compaction.</p> <p>v) Density of compacted layer.</p>	<p>One tests for each consignment.</p> <p>One tests for each consignment.</p> <p>Two test per every 3000 cum.</p> <p>One test per every 250 cum.</p> <p>At least one measurement of density for each 1000 sqm.</p>	<p>IS:2720 (Part -8) 1983</p> <p>IS: 2720 (Part -8) 1983</p> <p>IS: 2720 (Part -2) 1973</p> <p>IS 1720 (Part : 28)</p>
2)	<b>Granular Sub-base</b>	<p>i) Gradation</p> <p>ii) Atterberg limits</p> <p>iii) Moisture content prior to compaction</p> <p>iv)Densityof compacted layer</p> <p>v) Wet aggregate Impact value if water absorption of the aggregate is more than 2%</p> <p>vi) CBR</p>	<p>One test per 400 cu.m</p> <p>One test per 400 cu.m</p> <p>One test per 400 cu.m</p> <p>One test per 1000 sq.m.</p> <p>One test per source.</p> <p>As required.</p>	<p>MORTH Specifications 2013 section 900 (Table -900-3)</p>
3)	<b>Water Bound Macadam</b>	<p>i) Aggregate Impact Value.</p> <p>ii)Grading of aggregate</p> <p>iii)Combined flakiness and ElongationIndices.</p> <p>iv) Atterberg limits of binding material.</p> <p>v) Atterberg limits of screenings.</p>	<p>One test per 1000 cu.m. of aggregate.</p> <p>One tests per 250 cu.m</p> <p>One test per 500 cu.m. of aggregate.</p> <p>One test per 50 cu.m of binding material.</p> <p>One test per 100 cu.m. of aggregate.</p>	<p>MORTH Specifications 2013 section 900 (Table -900-3)</p>



4)	Wet Mix Macadam	i) Aggregate Impact Value. ii) Grading of aggregate. iii) Combined flakiness and Elongation Indices. iv) Atterberg limits of portion of passing 425 micron sieve. v) Density of compacted layer	One test per 1000 cu.m. of aggregate. One test per 200 cu.m. of aggregate. One test per 500 cu.m. of aggregate. One test per 200 cu.m. of aggregate. One set of three tests per 1000sqm.	MORTH Specifications 2013 section 900 (Table -900.4)
5	BBM / MPM .	<u>i) Quality of binder</u> a) Specific Gravity b) Flash and Fire point, c) Softening point d) Penetration Test e) Ductility Test f) Viscosity. (Absolute ,Kinematic) g) Binder temperature for application <hr/> ii) Aggregate. Impact Value. iii) Grading of aggregate. iv) Combined flakiness and Elongation Indices. v) Stripping Value v) Water absorption of	Two Sample per lot to be subjected to all or some test as directed by engineer.  At regular close interval <hr/> One test per 2000cu.m. of aggregate. One tests per 100cu.mof aggregate. One tests per 200 cu.mof aggregate .  Initially One set of three representative specimens for each source of supply subsequently when warranted by changes in the quality of aggregate .	IRC:SP:20-2002

		<p>aggregate .</p> <p>vi) Temperature of binder at application aggregate .</p> <p>vii) Rate of spread of binder .</p>	<p>Initially One set of three representative specimens for each source of supply subsequently when warranted by changes in the quality of aggregate .</p> <p>At regular close intervals.</p> <p>One tests per 500sq.m of area.</p>											
6	BUSG	<p><u>i) Quality of binder</u></p> <p>a) Specific Gravity</p> <p>b) Flash and Fire point,</p> <p>c) Softening point</p> <p>d) Penetration Test</p> <p>e) Ductility Test</p> <p>f) Viscosity. (Absolute ,Kinematic)</p> <p>g) Binder temperature for application</p> <hr/> <p>ii) Aggregate. Impact Value. or Abrasion Value</p> <p>iii)Grading of aggregate.</p> <p>iv)Combined flakiness and Elongation Indices.</p> <p>v)Stripping Value</p>	<table border="1"> <thead> <tr> <th>Lot size</th> <th>No. of container</th> </tr> </thead> <tbody> <tr> <td>Up to 50 lots</td> <td>3</td> </tr> <tr> <td>51 to 150</td> <td>5</td> </tr> <tr> <td>151 to 500</td> <td>7</td> </tr> <tr> <td>501&amp;above</td> <td>10</td> </tr> </tbody> </table> <p>One test per 200 cu.m. of aggregate.</p> <p>One tests per 100 cu.m of aggregate.</p> <p>One tests per 200 cu.m of aggregate .</p> <p>Initially One set of three representative specimens for each source of supply subsequentlywhen warranted by changes in the quality of</p>	Lot size	No. of container	Up to 50 lots	3	51 to 150	5	151 to 500	7	501&above	10	<p>IRC:47-1972 IS -73 As frequency for BUSG is not mention in IRC:47-1972 hence frequency for BBM &amp; MPM as perIRC:SP-20-2002 is adopted.</p> <p>IS -2386 (Part-4)</p> <p>IRC:47-1972</p> <p>IS -2386 (Part-1)</p> <p>IS -6241</p>
Lot size	No. of container													
Up to 50 lots	3													
51 to 150	5													
151 to 500	7													
501&above	10													

		vi) Water absorption of aggregate .	aggregate . Initially One set of three representative specimens for each source of supply subsequently when warranted by changes in the quality of aggregate .	IS -2386 (Part-3)
7	Hard Murum	i)Atterbergs Limit	One test per 400 cu.m.	MORTH Specifications 2013 clause 900 (Table 900-3)

### C)Bituminous works.

Sr. No.	Type of Construction	Test	Frequency (min.)	Reference										
1	2	3	4	5										
	<b>Prime coat/ Tack Coat</b>	<u>i) Quality of binder</u> a) Specific Gravity b) Flash and Fire point, c) Softening point d) Penetration Test e) Ductility Test f) Viscosity. (Absolute ,Kinematic)	<table border="1"> <thead> <tr> <th>Lot size</th> <th>No. of container</th> </tr> </thead> <tbody> <tr> <td>Up to 50 lots</td> <td>3</td> </tr> <tr> <td>51 to 150</td> <td>5</td> </tr> <tr> <td>151 to 500</td> <td>7</td> </tr> <tr> <td>501&amp;above</td> <td>10</td> </tr> </tbody> </table>	Lot size	No. of container	Up to 50 lots	3	51 to 150	5	151 to 500	7	501&above	10	MORT H Specifications 2013 section 900 (Table 900-4) IS:73 IS:217 & IS:8887.
Lot size	No. of container													
Up to 50 lots	3													
51 to 150	5													
151 to 500	7													
501&above	10													
	ii) Binder temperature for application iii) Rate of spread of Binder	At regular close intervals  Three tests per day												

2)	<b>Seal coat/ Surface Dressing</b>	<p>i) <u>Quality of binder</u></p> <p>a) Specific Gravity</p> <p>b) Flash and Fire point,</p> <p>c) Softening point</p> <p>d) Penetration Test</p> <p>e) Ductility Test</p> <p>f) Viscosity. (Absolute ,Kinematic)</p>	<table border="1" data-bbox="772 197 1118 517"> <thead> <tr> <th>Lot size</th> <th>No. of container</th> </tr> </thead> <tbody> <tr> <td>Up to 50 lots</td> <td>3</td> </tr> <tr> <td>51 to 150</td> <td>5</td> </tr> <tr> <td>151 to 500</td> <td>7</td> </tr> <tr> <td>501&amp;above</td> <td>10</td> </tr> </tbody> </table>	Lot size	No. of container	Up to 50 lots	3	51 to 150	5	151 to 500	7	501&above	10	<p>MORT H Specifications 2013 section 900 (Table 900-4) IS:73 IS:217 &amp; IS:8887.</p>
Lot size	No. of container													
Up to 50 lots	3													
51 to 150	5													
151 to 500	7													
501&above	10													
		<p>ii) Aggregate Impact Value</p> <p>iii) Combined flakiness and elongation Indices</p> <p>iv) Stripping value of aggregate (Immersion Tray Test)</p> <p>v) Water absorption of aggregate</p> <p>vi) Grading of aggregate</p> <p>vii) Temperature of binder in boiler, in dryer and mix at the time of laying and compaction.</p> <p>ix) Rate of spread of material</p>	<p>One test per 200 cu.m. of each source and whenever there is change in the quality of aggregate</p> <p>One test per 100 cu.m. of aggregate for each source and whenever there is change in the quality of aggregate</p> <p>One test of each source and whenever there is change in the quality of aggregate</p> <p>One test of each source and whenever there is change in the quality of aggregate</p> <p>Two tests per day.</p> <p>At regular intervals</p> <p>Three test per day.</p>											

3)	<b>Open-graded Premix Surfacing/ Close-graded Premix Surfacing</b>	i) <u>Quality of binder</u>	<table border="1"> <thead> <tr> <th>Lot size</th> <th>No. of container</th> </tr> </thead> <tbody> <tr> <td>Up to 50 lots</td> <td>3</td> </tr> <tr> <td>51 to 150</td> <td>5</td> </tr> <tr> <td>151 to 500</td> <td>7</td> </tr> <tr> <td>501&amp;above</td> <td>10</td> </tr> </tbody> </table>	Lot size	No. of container	Up to 50 lots	3	51 to 150	5	151 to 500	7	501&above	10	MORT H Specifications 2013 section 900 (Table 900-4) IS:73 IS:217 & IS:8887.
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a) Specific Gravity b) Flash and Fire point, c) Softening point d) Penetration Test e) Ductility Test f) Viscosity. (Absolute ,Kinematic)														
		ii) Aggregate. Impact Value.	One test per 200 cu.m.of each source and whenever there is change in the quality of aggregate.											
		iii) Combined Flakiness and Elongation Indices	One test per 100 cu.m. of for each source and whenever there is change in the quality of aggregate.											
		iv) Stripping value	One test of each source and whenever there is change in the quality of aggregate.											
		v) Water absorption of aggregate.	One test of each source and whenever there is change in the quality of aggregate.											
		vi) Grading of aggregate.	Two tests per day.											
		vii) Temperature of binder at application	At regular intervals											

4)	<b>Bituminous Macadam</b>	i) <u>Quality of binder</u>	<table border="1"> <thead> <tr> <th>Lot size</th> <th>No. of container</th> </tr> </thead> <tbody> <tr> <td>Up to 50 lots</td> <td>3</td> </tr> <tr> <td>51 to 150</td> <td>5</td> </tr> <tr> <td>151 to 500</td> <td>7</td> </tr> <tr> <td>501&amp;above</td> <td>10</td> </tr> </tbody> </table>	Lot size	No. of container	Up to 50 lots	3	51 to 150	5	151 to 500	7	501&above	10	MORT H Specifications 2013, section 900 (Table 900-4), IS:73, IS:217 & IS:8887.
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151 to 500	7													
501&above	10													
a) Specific Gravity b) Flash and Fire point, c) Softening point d) Penetration Test e) Ductility Test f) Viscosity. (Absolute ,Kinematic)														
		ii) Aggregate Impact Value.	One test per 200 cu.m.of each source and whenever there is change in the quality of aggregate.											
		iii) Combined Flakiness and Elongation Indices	One test per 350 cu.m. of aggregate for each source.											
		iv) Stripping value	One test of each source and whenever there is change in the quality of aggregate.											
		v) Water absorption of aggregate.	One test of each source and whenever there is change in the quality of aggregate.											
		vi) Grading of aggregate.	Two tests per day.											
		vii) Binder content.	Two tests per day per plant.											
		viii)Control of temperature of binder &aggregate for mix aggregate of the mix at the time of laying & rolling.	At regular intervals.											
		ix) Density of compacted Layer.	One test per 700 Sq.mt.area.											
		x) Rate of Spread of mix.	At regular intervals.											

5)	<b>Dense Bituminous Macadam/Bituminous Concrete</b>	i) <u>Quality of binder</u>	<table border="1"> <thead> <tr> <th>Lot size</th> <th>No. of container</th> </tr> </thead> <tbody> <tr> <td>Up to 50 lots</td> <td>3</td> </tr> <tr> <td>51 to 150</td> <td>5</td> </tr> <tr> <td>151 to 500</td> <td>7</td> </tr> <tr> <td>501&amp;above</td> <td>10</td> </tr> </tbody> </table>	Lot size	No. of container	Up to 50 lots	3	51 to 150	5	151 to 500	7	501&above	10	MORT H Specifications 2013 section 900 (Table 900-4) IS :73 IRC SP 53 IS:15462
		Lot size	No. of container											
Up to 50 lots	3													
51 to 150	5													
151 to 500	7													
501&above	10													
a) Specific Gravity b) Flash and Fire point, c) Softening point d) Penetration Test e) Ductility Test f) Viscosity. (Absolute ,Kinematic)														
		ii) Aggregate Impact Value.	One test per 350 cu.m of aggregate for each source and whenever there is change in the quality of aggregate.											
		iii) Flakiness and Elongation Indices	One test per 350 cu.m of aggregate for each source and whenever there is change in the quality of aggregate.											
		iv) Water absorption of aggregate.	One test for each source and whenever there is change in the quality of aggregate.											
		v) Mix grading	One set for individual constituent and mixed aggregate from dryer for each 400 tones of mix subject to minimum of two tests per day per plant											
		vi) Stability and voids analysis of mix including theoretical maximum specific of loose mix	Three tests for stability, flow value, density and void contents for each 400 tonnes of mix subject to minimum of two tests per day per plant.											
		vii) Temperature of binder in boiler,	At regular intervals.											



		<p>indryer and mix at the time of laying and compaction.</p> <p>viii) Binder content</p> <p>ix) Rate of spread of mix</p> <p>x) Density of Compacted layer</p>	<p>One set for each 400 tonnes of mix subject to minimum of two tests per day per plant</p> <p>After every 5<sup>th</sup> truck load</p> <p>One test per 700 sq.m area</p>											
6)	<b>Slurry seal and Micro surfacing.</b>	<p>i) <u>Quality of binder</u></p> <p>a) Specific Gravity</p> <p>b) Flash and Fire point,</p> <p>c) Softening point</p> <p>d) Penetration Test</p> <p>e) Ductility Test</p> <p>f) Viscosity. (Absolute, Kinematic)</p> <hr/> <p>ii) Aggregate Moisture.</p> <p>iii) Aggregate Gradation.</p> <p>iv) Binder Content.</p> <p>v) Quantity of Slurry. (By weight of )</p>	<table border="1"> <thead> <tr> <th>Lot size</th> <th>No. of container</th> </tr> </thead> <tbody> <tr> <td>Up to 50 lots</td> <td>3</td> </tr> <tr> <td>51 to 150</td> <td>5</td> </tr> <tr> <td>151 to 500</td> <td>7</td> </tr> <tr> <td>501 &amp; above</td> <td>10</td> </tr> </tbody> </table> <p>Two test per day..</p> <p>Two test per day at site.</p> <p>Two test per day.</p> <p>Daily (Travel time of Machine)</p>	Lot size	No. of container	Up to 50 lots	3	51 to 150	5	151 to 500	7	501 & above	10	<p>MORTH Specifications 2013 section 900 (Table 900-4) IS:73 IS:217 &amp; IS:8887.</p> <p>Remarks : As per MORTH, Specification E mulsion is to used in slurry seal &amp; micro surfacing.</p>
Lot size	No. of container													
Up to 50 lots	3													
51 to 150	5													
151 to 500	7													
501 & above	10													

7)	<b>Mastic Asphalt</b>	<p>i) <u>Quality of binder</u></p> <p>a) Specific Gravity</p> <p>b) Flash and Fire point,</p> <p>c) Softening point</p> <p>d) Penetration Test</p> <p>e) Ductility Test</p> <p>f) Viscosity. (Absolute, Kinematic)</p> <p>ii) Aggregate Impact Value.</p> <p>iii) Combined Flakiness and Elongation Indices</p> <p>iv) Striping value</p> <p>v) Grading of aggregates.</p> <p>vi) Water absorption of aggregates.</p> <p>vii) Binder content and aggregates grading of mix material.</p> <p>viii) Control of temperature of binder and aggregates for mixing and of the mix at the time of laying and rolling.</p>	<table border="1" data-bbox="774 230 1121 421"> <thead> <tr> <th>Lot size</th> <th>No. of container</th> </tr> </thead> <tbody> <tr> <td>Up to 50 lots</td> <td>3</td> </tr> <tr> <td>51 to 150</td> <td>5</td> </tr> <tr> <td>151 to 500</td> <td>7</td> </tr> <tr> <td>501&amp;above</td> <td>10</td> </tr> </tbody> </table> <p>One tests per 350 cum.of aggregates for each source &amp; whenever there is change in the quality of aggregates.</p> <p>One tests per 350 cum.of aggregates for each source &amp; whenever there is change in the quality of aggregates.</p> <p>One test of each source &amp; whenever there is change in the quality of aggregates.</p> <p>Two tests per day per plant on the individual constituent &amp; mixed aggregate from the dryer.</p> <p>One test for each source and whenever there is change in the quality of aggregates.</p> <p>Two Test per day per plant.</p> <p>At regular close intervals</p>	Lot size	No. of container	Up to 50 lots	3	51 to 150	5	151 to 500	7	501&above	10	<p>MORT H Specifications 2013 section 900 (Table 900-4) IS:73 IRC SP 53 IS: 15462.</p>
Lot size	No. of container													
Up to 50 lots	3													
51 to 150	5													
151 to 500	7													
501&above	10													

		ix) Rate of Spread of Mixed Material.	Regular control through check of layer thickness.												
8)	<b>Cold Mixes.</b>	<p>i) <u>Quality of binder</u></p> <p>a) Specific Gravity</p> <p>b) Flash and Fire point,</p> <p>c) Softening point</p> <p>d) Penetration Test</p> <p>e) Ductility Test</p> <p>f) Viscosity. (Absolute, Kinematic)</p> <p>ii) Aggregate Impact Value.</p> <p>iii) Combined Flakiness and Elongation Indices</p> <p>iv) Water absorption of aggregate.</p> <p>v) Grading of aggregate.</p> <p>vi) Temperature of binder at application</p> <p>vii) Binder content.</p>	<table border="1"> <thead> <tr> <th>Lot size</th> <th>No. of container</th> </tr> </thead> <tbody> <tr> <td>Up to 50 lots</td> <td>3</td> </tr> <tr> <td>51 to 150</td> <td>5</td> </tr> <tr> <td>151 to 500</td> <td>7</td> </tr> <tr> <td>501&amp;above</td> <td>10</td> </tr> </tbody> </table>	Lot size	No. of container	Up to 50 lots	3	51 to 150	5	151 to 500	7	501&above	10		<p>MORT H Specifications 2013 section 900 (Table 900-4) IS:73 IRC SP 53 IS : 15462</p>
Lot size	No. of container														
Up to 50 lots	3														
51 to 150	5														
151 to 500	7														
501&above	10														
			<p>One test per 350 cu.m. of each source and whenever there is change in the quality of aggregate.</p> <p>One test per 350cu.m. of aggregates for each source and whenever there is change in the quality of aggregate.</p> <p>One test of each source and whenever there is change in the quality of aggregate.</p> <p>Two tests per day.</p> <p>At regular intervals</p> <p>Two tests per day.</p>												

**BASIC QUALITY CONTROL TESTS & THEIR FREQUENCIES**

**RIGID PAVEMENT**

<b>Sr. No.</b>	<b>Material</b>	<b>Description of Test</b>	<b>Frequency Min.</b>	<b>Reference</b>
1)	Cement (Physical Tests)	i) Compressive Strength. ii) Initial Setting Time. iii) Final setting Time. iv) Specific Gravity. v) Soundness. vi) Fineness.	Once for each source of supply & occasionally when called for in case of long/improper storage. Besides the contractor also will submit daily test data on cement released by the manufacturer.	M.O.R.T.H. Specification Section.903 (Table 900-6) IS : 269 IS: 455 IS: 1489 IS: 8112 IS : 12269
2)	Aggregate	i) Aggregate Impact Value  iii) Gradation.  iii) Water absorption.	Once for each source of supply & subsequently on monthly basis.  one test for every days work of each fraction of course aggregate initially.  One test per day.	M.O.R.T.H. Specification 2013, Section 903. (Table 900-6) IS 2386 (Part 4-IV)  IS 2386 (Part- III)
3)	Sand	i) Fineness Modulus.  ii) Water absorption.	At Beginning & if there is change in source.  Two tests per day.	PWD HAND BOOK Chapter-3, for RCC, & M.O.R. T.H. Specification 2013, Section 903. (Table 900-6) IS : 2386 (Part- III)

4)	Cement Concrete	<p>i) Compressive Strength.</p> <p>ii) Workability / Slump Test.</p>	<p>2 cubes &amp; 2 beams per 150 cu.m. or part thereof (One for 7 days &amp; other for 28 days strength) or minimum 6 cubes &amp; 6 beams per day's work whichever is more.</p> <p>One test per each dumper load at both batching plant site &amp; paving site initially when work starts. Subsequently sampling may be done from alternate dumper.</p>	M.O.R.T.H. Specification 2013, Section 903. (Table 900-6) IS : 516
5)	Paver Blocks.	<p>i) Compressive Strength</p> <p>ii) Water absorption</p>	<p>One test for 50,000 blocks &amp; part thereof.</p> <p>One test for 50,000 blocks &amp; part thereof.</p>	IS: 15658 – 2006.
6)	Steel	<p>i) Ultimate Tensile Stress.</p> <p>ii) Percentage Elongation.</p> <p>iii) Percentage Proof /yield Stress.</p> <p>iv) Weight per meter.</p>	<p>One test for every 5 metric tones or part there of for each diameter of bar.</p> <p>One test for every 5 metric tones or part there of for each diameter of bar.</p> <p>One test for every 5 metric tones or part there of for each diameter of bar.</p> <p>One test for every 5 metric tones or part there of for each diameter of bar.</p>	IS:432 (Part-II)

**Government of Maharashtra**  
**Vigilance & Quality Control Circle**

**Pune/ Navi Mumbai/ Nasik/ Amravati/ Aurangabad & Nagpur**

**Schedule of Testing charges for Construction Material used for  
Government Works for the Year 2019-20**

**(Effective from 01/07/2019)**

**INDEX**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Pages</b>	
		<b>3</b>	<b>4</b>
<b>1)</b>	<b>Important Notes</b>	<b>1</b>	<b>1</b>
<b>2)</b>	<b>Schedule of Rate for Construction Material Testing Charges</b>	<b>2</b>	<b>7</b>

Government of Maharashtra  
Vigilance & Quality Control Circle

**Schedule of Testing charges for Construction Material used  
for Government Works for the Year 2019-20  
(Effective from 01/07/2019 and valid up to 30.6.2020)**

**Important Notes**

- 1) The rates Included in this D.S.R. are applicable for all Divisions and Sub Divisions under P. W. D. and Z. P. Maharashtra State. For work executed in semi Government and Private establishments the rate shall be twice as mentioned in the DSR as per the Government in P.W. D. Guidelines Issued vide Circular No- Lab-1097/34/ NH-2 dated 15.10.1997 Mantralay, Mumbai - 400032. (i.e. twice the rate mentioned in D. S. R.)
- 2) The field Officer will have to strictly adhere to the test frequency stipulated as per Government guideline.
- 3) In order to achieve uniformity in testing of material throughout Maharashtra State, tests have been classified as per requirement.

Page No.1

**GOVERNMENT OF MAHARASHTRA**  
**Vigilance & Quality Control Circle**

Schedule of Testing charges for construction material used for  
Government Works for the Year 2019-20  
Effective from 1/ 07/2019 and valid Upto 30/06/2020

Sr. No.	Name of Test	Test	Rate in Rs.
1	2	3	4
	<b><u>BASIC TEST OF CEMENT.</u></b>		
1	Standard Consistency, Fineness, Specific Gravity, Setting Time ( Initial & Final ), Compressive Strength, Soundness.	1 Test	3550.00
	<b><u>BASIC TEST OF AGGREGATE.</u></b>		
2	Water Absorption, Specific Gravity, Impact Value, Crushing Value.	1 Test	2450.00
3	Sieve Analysis.	1 Test	650.00
4	Abrasion Value.	1 Test	1100.00
5	Flakiness Index & Elongation Index.	1 Test	800.00
6	Stripping Value. (for Bituminous Work)	1 Test	700.00
7	Soundness.	1 Test	2350.00
	<b><u>MIX DESIGN.</u></b>		
8	GSB Mix Design./Cement Treated Sub Base ( CTSB)	1 Test	15300.00
9	Wet Mix Macadam Mix Design.	1 Test	15300.00
	<b><u>FINE AGGREGATE.</u></b>		
10	Fineness Modulus ( Sieve Analysis ), Silt & Clay Content	1 Test	1300.00
11	Chloride & Sulphate Content.	1 Test	750.00
12	Silt Factor.	1 Test	800.00
	<b><u>BRICKS</u></b>		
13	Water Absorption (Set of 5 Bricks), Compressive Strength( Set of 5 Bricks), Efflorescence (Set of 5 Bricks).	1 Test	2050.00
	<b><u>FLOORING TILES (MOSSAIC / CEMENT)</u></b>		
14	Flexural test ( Set of 6 Tiles), Water Absorption ( Set of 6 Tiles), Resistance to wear ( Set of 6 Tiles).	1 Test	2350.00
15	Flooring of Natural Stone (Kota, Marble, Granite, Tandur. etc.) Water absorption, Specific gravity	1 Test	1300.00



Sr. No.	Name of Test	Test	Rate in Rs.
1	2	3	4
	<b><u>CERAMIC TILES / VITRIFIED TILES</u></b>		
16	Water Absorption, Modulus of Rupture (Set of 6 Tiles)	1 Test	1500.00
	<b><u>MANGLORE TILES</u></b>		
17	Water Absorption (Set of 6 Tiles), Flexural test (Set of 6 Tiles).	1 Test	1400.00
18	Permeability.	1 Test	900
	<b><u>CONCRETE</u></b>		
19	Compressive Strength OF C.C. Cube (Set of 3 cubes).	1 Test	650.00
20	Concrete Mix Design (With all Tests on basic materials)	1 Test	12950.00
21	Flexural strength of Beam.	1 Test	700.00
22	Permeability Test.	1 Test	1450.00
23	Concrete mix design by Accelerated curing method. (By Accelerated curing method)	1 Mix Design	15300.00
24	Taking of core samples in concrete pavement. (Excluding Dead Journey Charges)	1 Test	2700.00
25	Dead Journey Charges.	Per Km	16.00
	<b><u>CONCRETE PAVING BLOCKS</u></b>		
26	Compressive Strength , Water Absorption,(Set of 8 Blocks)	1 Test	2350.00
	<b><u>MORTOR</u></b>		
27	Compressive Strength.( Set of 3 Cubes)	1 Test	650.00
	<b><u>STONE/ RUBBLE</u></b>		
28	Crushing Value/Compressive Strength, Water Absorption & Specific Gravity,	1 Test	1900.00
			Page No.3

Sr. No.	Name of Test	Test	Rate in Rs.
1	2	3	4
	<b>SOIL / MURUM</b>		
29	Sieve Analysis.	1 Test	650.00
30	Liquid limit & plastic Limit.	1 Test	1100.00
31	Compaction Test ( Proctor Density ).	1 Test	1750.00
32	C.B.R. Test ( Lab ) With compaction test.	1 Test	6500.00
33	C.B.R. Test ( Field Determination Test) Excluding Transportation.As per IS 2720 Part XXXI	1 Test	2450.00
34	Dead Journey Charges of inspection Vehical	Per Km	16.00
35	Dead Journey Charges of Truck/Tipper	Per Km	58.00
36	Field Density by Sand replacement method.	1 Test	1050.00
37	Sulphate & Chloride Contents.	1 Test	750.00
38	Mechanical Analysis.	1 Test	2100.00
39	Plate Load Bearing Test. (Excluding Transportation)	1 Test	29400.00
40	Free Swell Test for Soil.	1 Test	850.00
	<b>BITUMEN</b>		
41	Penetration, Softening Point, Flash & Fire Point, Specific Gravity	1 Test	2950.00
42	Viscosity.	1 Test	1800.00
43	Ducility / Elastic Recovery	1 Test	850.00
44	Extraction Test.(Bituminous mix)	1 Test	1500.00
45	Extraction &Sieve Analysis of Bituminous mix ( for BM/DBM/AC) (2 samples of extraction for one sieve analysis including extraction)	1 Test	3700.00
46	Marshall Stability & Flow measurement. ( Set of 3 moulds)	1 Test	1050.00
47	Job Mix Design with all Tests on aggregate (Excluding bitumen) for DBM/SDBC/AC/SMA (Stone Mastic Ashphalt) ( Testing of Bitumen shall be seperately Charged)	1 Mix Design	15300.00
48	B. M. Mix Design with all Tests on aggregate (Excluding bitumen ) ( Testing of Bitumen shall be seperately Charged)	1 Mix Design	7050.00
49	Mastic Hardness No.	1 Test	650.00
50	Thin film oven test & test on residue of modified bitumen.	1 Test	2950.00
51	Seperation test for modified bitumen.	1 Test	1050.00
52	Density of Bituminous Core.	1 Test	600.00
53	Taking of core samples in bituminous flexible pavement. (Excluding Dead Journey Charges)	1 Test	2700.00
54	Dead Journey Charges.	Per Km	16.00
			<b>Page No.4</b>

Sr. No.	Name of Test	Test	Rate in Rs.
1	2	3	4
	<b><u>BITUMINOUS EMULSION</u></b>		
55	% Residue Test By Evaporation / Sieve Test	1 Test	600.00
56	Partical Charge Test	1 Test	400.00
	<b><u>HOLLOW / SOLID /AAC BLOCKS</u></b>		
57	Density Test . (Set of 3 Blocks ),Compressive Strength. (Set of 3 Blocks ),Water Absorption Test ( Set of 3 Blocks )	1 Test	1850.00
	<b><u>WATER</u></b>		
58	PH Value, Sulphate & Chloride Content.	1 Test	1050.00
	<b><u>WOOD</u></b>		
59	Density, Moisture Content.	1 Test	1000.00
	<b><u>FLUSH DOOR</u></b>		
60	Knife Test, Adhesion Test, End Immersion Test.	1 Test	2550.00
	<b><u>PLYWOOD</u></b>		
61	Determination of Resistance to dry heat,Determination of Moisture Content,Determination of Density,Thickness of Plywood.	1 Test	3200.00
62	Test for Glue Adhesion	1 Test	500.00
	<b><u>PARTICAL BOARD</u></b>		
63	Determination of Moisture Content,Determination of Density	1 Test	1500.00
	<b><u>ALUMINIUM SECTION</u></b>		
64	Thickness, Mass Per Running meter,	1 Test	650.00
65	Test on Powder Coating	1 Test	750.00
			Page No.5

Sr. No.	Name of Test	Test	Rate in Rs.
1	2	3	4
	<b><u>A.C. PIPES</u></b>		
66	Water Absorption	1 Test	650.00
67	Bursting Strength	1 Test	500.00
	<b><u>G.I. PIPES</u></b>		
68	Weight per running meter,Diameter of pipe & wall thickness of pipe,	1 Test	250.00
69	Weight of Zinc coating per sq. m.	1 Test	300.00
	<b><u>P.V.C. PIPES (NONPLASTISIZED)</u></b>		
70	Weight per running meter,Diameter of pipe & wall thickness of pipe	1 Test	250.00
	<b><u>STEEL ANTI CORROSIVE TEST</u></b>		
71	Resistance to applied Voltage. ( 1 Hr. Test ) (Set of 2 Bars)	1 Test	1050.00
72	Resistance to applied Voltage.( 30 Days Test ) ( Set of 2 Bars )	1 Test	2950.00
73	Thickness of Coating. (Set of 2 Bars)	1 Test	550.00
74	Chemical Resistance Test.( Set of 8 Bars )	1 Test	2250.00
75	Hardness of Coating Test .	1 Test	300.00
76	Salt Spray Test ( 4 Cycles ) ( Set of 2 Bars )	1 Test	1400.00
	<b><u>STEEL BAR TESTING</u></b>		
77	Upto 16 mm (Set of 3 Bars)	1 Test	1200.00
78	Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress,Weight-Per Meter, Bend / Rebend Test, Proof Stress.)	1 Test	1500.00
79	Nitrol Solution Test. (Set of 3 Bars)	1 Test	3650.00
	<b><u>PAINT / THERMO-PLASTIC PAINT</u></b>		
80	Glass bead contents & grading analysis.	1 Test	3650.00
81	Reflectance & yellowness index.	1 Test	1050.00
82	Flowability.(Percentage residue).	1 Test	1050.00
83	Softening Point. (Ring & ball method).	1 Test	950.00
84	Drying Time.	1 Test	750.00
	<b><u>COAL TAR EPOXY PAINT</u></b>		
85	Drying Time.	1 Test	750.00
86	Dry Film Thickness.	1 Test	700.00
87	Flexibility.	1 Test	300.00
88	Gel Time.	1 Test	500.00
89	Pot Life.	1 Test	500.00
90	Volume of Solid.	1 Test	1000.00
			Page No.6

Sr. No.	Name of Test	Test	Rate in Rs.
1	2	3	4
	<b><u>ROAD SIGN BOARD</u></b>		
91	Retro Reflective Test.	1 Test	3750.00
	<b><u>ROUGHNESS INDEX / ROAD UN-EVENNESS TEST</u></b>		
92	Road Surface Single Lane.(3.70 to 5.50 m)	Per Km	700.00
93	Road Surface 1.5 Lane to Two Lane. (5.50 to 7.00 m)	Per Km	1400.00
94	Each Additional Lane.	Per Km	700.00
95	Dead Journey Charges.	Per Km	16.00
	<b><u>OVERLAY DESIGN</u></b>		
96	Benkelman Beam Test (Excluding Dead Journey Charges)	Per Km	13300.00
	<b><u>NON -DESTRUCTIVE TEST</u></b>		
97	Rebound Hammer Test.	1 Point	250.00
98	Ultrasonic Pulse Velocity	1 Point	350.00

  
 Superintending Engineer  
 Vigilance & Quality Control Circle,  
 Pune-411 001

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मुख्य अभियंता

सा.बां. प्रादेशिक विभाग, मध्यवर्ती इमारत, पुणे यांचे कार्यालय

दुरध्वनी :- ०२० २६१२४२९५ E-Mail:- [pune.ce@mahapwd.com](mailto:pune.ce@mahapwd.com) Fax No:- ०२० २६१२६२६८

जा.क्र. मुअपु/का-२/ इमारती-२ / ५९४० / २०१७,

दिनांक - १७.१०.२०१७

परिपत्रक

**विषय :-** शासकीय बांधकामांमध्ये कृत्रिम वाळू (Crushed sand /Artificial Sand ) चा वापर करणेबाबत.

**संदर्भ :-** १.शासन परिपत्रक क्रमांक - संकिर्ण - २००९ / प्र. क्र. १० / रस्ते-१, दि. २३/०७/२००९  
२. या कार्यालयाचे परिपत्रक जा.क्र.का-२/नियोजन/१५०४/२०१३ . दि.८/३/२०१३

सार्वजनिक बांधकाम विभागामार्फत मोठ्या प्रमाणात शासकीय इमारतींची बांधकामे तसेच रस्ते व पूलांची बांधकामे हाती घेण्यात येतात. सदर बांधकामातील काँक्रीटच्या बाबींचे परिमाणेही खुप जास्त असतात. त्यामुळे काँक्रीटच्या घटक भागाचे म्हणजेच या प्रकरणी मुख्यत्वे वाळूच्या मागणी मध्ये प्रचंड प्रमाणात वाढ झाली आहे. बांधकामांसाठी लागणा-या वाळूची मागणी ही उपलब्ध नैसर्गिक वाळूच्या व्यस्त प्रमाणात वाढते आहे. परिणामी वाळूचे बेकायदा उत्खनन वाढून नदी व नाल्यांच्या नैसर्गिक प्रवाहात बाधा पाहोचविण्याचे प्रकार वाढले आहेत. अशा परिस्थितीत नैसर्गिक वाळूचा बांधकामातील वापर कमी करून त्याऐवजी कृत्रिम वाळूचा वापर वाढविणे क्रमप्राप्त असून काळाची गरज आहे.

शासनाच्या दि. २३/०७/२००९ रोजीच्या परिपत्रकान्वये कृत्रिम वाळूच्या वापराच्या अनुषंगाने मार्गदर्शक सुचना निर्गमित केल्या आहेत. त्यास अनुसरून या कार्यालयाच्या दि.८/३/२०१३ रोजीच्या परिपत्रकान्वये क्षेत्रिय कार्यालयांसाठी मार्गदर्शक सुचना निर्गमित केल्या आहेत.

तथापि, आता क्षेत्रिय स्तरावर उपलब्ध यंत्रसामुग्री, त्या अनुषंगाने उपलब्ध होऊ शकणारी कृत्रिम वाळू व त्याची गुणवत्ता विषयक मानके तसेच कृत्रिम वाळूच्या वापरासंदर्भात दक्षता व गुणनियंत्रण मंडळाकडून प्राप्त झालेले अभिप्राय इत्यादींचा विचार करता, नव्याने प्रस्तावित शासकीय बांधकामांमध्ये कृत्रिम वाळूच्या वापरा संदर्भात नव्याने मार्गदर्शक सूचना निर्गमित करणे आवश्यक झाले आहे.


उपरोक्त अनुषंगाने शासकीय बांधकामांमध्ये नैसर्गिक वाळू ऐवजी १०० % कृत्रिम वाळू (Crushed sand / Artificial Sand) वापरण्यास या परिपत्रकान्वये परवानगी देण्यात येत असून, त्याप्रमाणे कृत्रिम वाळू वापरताना खालील नमूद अटींचे पालन होणे अनिवार्य आहे.

१. बांधकामासाठी वापरात येणारी कृत्रिम वाळू ही IS ३८३ : २०१६ मधील खंड ३.१.२ मध्ये नमूद कृत्रिम वाळूच्या व्याख्येनुसार Automatic Vertical Shaft Impactor या मशिन मधुन चांगल्या प्रतिचा खाणीचा दगड भरडुन उत्पादित केलेली असावी.
२. संबंधीत क्षेत्रिय अधिकारी यांनी प्रचलित IS Code ३८३ - २०१६ मधील तक्ता क्र. ९ मध्ये नमूद केले प्रमाणे fine aggregate चे स्विकृती बाबतच्या ग्रेडींग झोन नुसार वर्गीकरण करून व तशा पध्दतीच्या तपासण्या प्रत्यक्ष बांधकामाच्या जागेवर घेतल्यानंतरच कृत्रिम वाळू वापरण्यास परवानगी देण्यात यावी.

३. बांधकाम सुरु करण्यापूर्वी कृत्रिम वाळूच्या स्रोतास (Source of Crushed sand/Artificial sand) कार्यकारी अभियंता यांनी लिखित स्वरूपात मान्यता देणे बंधनकारक राहिल.
४. कृत्रिम वाळूचा वापर करणेपूर्वी अन्य आवश्यक चाचण्यांसह काँक्रीटकरिता चे Mix Design शासकीय प्रयोगशाळेतूनच करून घेणे अनिवार्य राहिल.
५. Prestressed Concrete च्या बाबींमध्ये कृत्रिम वाळूचा वापर करण्यात येऊ नये.
६. बांधकामाच्या काँक्रीटच्या बाबीं करिता Ready Mix Concrete चा वापर टाळणे अनिवार्य आहे.
७. कृत्रिम वाळूचा वापर बांधकामामध्ये करताना कृत्रिम वाळूच्या वापरा बाबतचे विनिर्देश सोबत Annexure-I स्वतंत्रपणे या परिपत्रकासोबत जोडण्यात येत आहेत. त्यानुसार त्या कामाच्या निविदेमध्ये Additional General Specification चा अंतर्भाव करण्यात यावा.
८. सद्यस्थितीत प्रगतीपथावर असलेल्या बांधकामांमध्ये कृत्रिम वाळूचा वापर करणे अनिवार्य झाल्यास या बाबत तांत्रिक मान्यता प्रदान करणा-या सक्षम प्राधिकारी यांना अवगत करण्यात यावी.
९. कृत्रिम वाळूचा वापराबाबत वरील नमूद १ ते ६ अटीचे तंतोतंत पालन करण्यात यावे. तसेच कृत्रिम वाळू वापरल्यास आरसीसी कामास विहित प्रमाणापेक्षा जास्त सिमेंट लागल्यास त्याकरिता संबंधीत ठेकेदारास अतिरिक्त मोबदला देण्यात येणार नाही.
१०. नैसर्गिक वाळू ऐवजी कृत्रिम वाळूचा वापर ज्या बाबींसाठी प्रस्तावित करण्यात येईल अशा बाबींसाठीच्या कमी दरांबाबत अंदाजपत्रकानुसार दोन्ही साहित्यांच्या बेसिक दर व साहित्यांचे वाहतुकीचे अंतर विचारात घेऊन संबंधीत क्षेत्रिय अधिकारी यांनी उचित कार्यवाही करावी. तसेच कामावर होणा-या एकंदर खर्च विहित मर्यादेपेक्षा जास्त होणार नाही याची दक्षता संबंधीत क्षेत्रिय अधिकारी यांनी घेण्यात यावी.

### सहपत्र- Annexure I

स्थळ प्रतीवर मा.मु.अ.यांची स्वाक्षरी असे.

  
 मुख्य अभियंता  
 सा.बां.प्रादेशिक विभाग  
 पुणे करिता  
 Boc  
 Vaiter

- प्रत:- अधीक्षक अभियंता, दक्षता व गुण नियंत्रण मंडळ, पुणे, माहिती साठी पुढील उचित कार्यवाही साठी.
- प्रत:- अधीक्षक अभियंता, सा.बां.मंडळ, पुणे, सातारा, कोल्हापूर, सोलापूर यांना माहिती साठी पुढील उचित कार्यवाही साठी.
- प्रत:- कार्यकारी अभियंता, सा.बां.विभाग पुणे, सा.बां.पूर्व/उत्तर/दक्षिण/इमारती विभाग, पुणे  
 कार्यकारी अभियंता, सा.बां.विभाग सातारा/सा.बां.पश्चिम विभाग, सातारा  
 कार्यकारी अभियंता, सा.बां.विभाग, कोल्हापूर /सा.बां.विभाग (दक्षिण) विभाग, कोल्हापूर/ विशेष प्रकल्प (सा.बां) विभाग, कोल्हापूर / सा.बां.विभाग विभाग, मिरज/ सा.बां.विभाग (पश्चिम) विभाग, सांगली, कार्यकारी अभियंता, सा.बां.विभाग क्र.१ /क्र.२, सोलापूर/सा.बां.विभाग, अकलूज/ सा.बां.विभाग, पंढरपूर यांना माहिती साठी व आवश्यक कार्यवाही साठी रवाना.
- प्रत:- सहा.मुख्य अभियंता (रस्ते/इमारती) यांना माहिती साठी व आवश्यक कार्यवाही साठी.
- प्रत:- उप अभियंता रस्ते /नाबार्ड/इमारती-१ /इमारती-२ यांना माहिती साठी व उचित कार्यवाही साठी.
- प्रत:- निविदा विभाग, सा.बां.प्रादेशिक विभाग, पुणे यांना माहिती साठी व पुढील आवश्यक कार्यवाही साठी.

"Annexure- I"

**Additional Specifications to be included in General Conditions of Contract  
for use of VSI Crushed Sand / Artificial Sand/ Fine Aggregates.**

1. VSI Crushed sand / Artificially manufactured sand / fine aggregates hereinafter referred to as "Crushed Sand" shall be as defined under Cl.3.1.2 of IS 383-2016.
2. The properties of "Crushed Sand" shall conform to the provisions of IS 383:2016.
3. The "Crushed Sand" shall be free of dust and other Deleterious material.
4. The "Crushed Sand" shall be manufactured using "Automatic Vertical Shaft Impactor "type Crusher only.
5. The quantity of Microfines (Particles below 75 microns) in "Crushed Sand" shall not be more than 7 %.
6. The Contractor shall intimate the Engineer In-Charge regarding the source of supply of "crushed sand". The source of supply of "crushed sand" shall be got approved by the Executive Engineer (Engineer-In-charge) prior to the start of work.
7. Each Load of crushed sand whenever brought on site shall be tested for "Fineness modulus". Fineness modulus shall be within permissible limits, If it doesn't fall within acceptable limits, it shall be rejected.
8. The Test of Compressive strength of concrete / Mortar using "Crushed sand" shall be carried out in presence of Department's Engineer as given below...
  - a) 100 % Cube testing in presence of Junior /Asst./Sectional Engineer.
  - b) 25 % Cube testing in the presence of sub divisional Engineer
  - c) 5 % Cube testing in the presence of Executive Engineer. (Engineer-In-charge)
9. The flakiness index and elongation index tests shall be within permissible limits.
10. The Concrete mix design for each grade of concrete using "Crushed sand" shall be carried out only in Government Quality Control laboratory and the same Mix Design shall be adopted.
11. As far as possible freshly produced "Crushed sand" shall be used. Stored "Crushed sand " shall not be used.
12. For Plastering purpose, if the use of crushed sand is proposed, it shall be used with addition of super plasticisers at the rate of 100ml/bag of cement without any extra cost to Government .



13. The following tests shall be carried out for the use of "Crushed sand".
- a) Sieve analysis
  - b) Specific gravity
  - c) Water absorption
  - d) Bulk density
  - e) Alkali aggregate reaction
  - f) Soundness
  - g) Deleterious Material
  - h) Organic impurities
  - i) Micro fines Content
  - j) Test for silt and clay.
  - k) Fineness Modulus test.
14. Necessary Bond regarding the use of "Crushed sand" shall be submitted by the Contractor clearly stating that, if any defects are observed during execution and in defect liability period, the same shall be rectified at his own risk and cost.
15. Grading zone I and II mentioned under Clause 6.3 table 9 of fine aggregates in IS 383:2016 shall only be used for concreting.
16. Reversible drum type / Batch mix plant(pan type) concrete mixer shall be used for concrete.
15. Use of Concrete from Ready Mix Plant (RMC) shall be strictly Prohibited.
16. "Crushed sand" shall not be used for prestressed concrete works.



मुख्य अभियंता

सा.बां. प्रादेशिक विभाग, मध्यवर्ती इमारत, पुणे यांचे कार्यालय

दुरध्वनी :- ०२० २६१२४२९५ E-Mail:- [pune.ce@mahapwd.com](mailto:pune.ce@mahapwd.com) Fax No:- ०२० २६१२६२६८

जा.क्र. मुअपु/का-२/ इमारती-२ /७२१३ /२०१७, दिनांक - २२/१२/२०१७

## शुद्धिपत्रक

**विषय :-** शासकीय बांधकामांमध्ये कृत्रिम वाळू (Crushed sand /Artificial Sand ) चा वापर करणेबाबत.

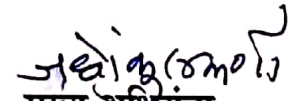
**संदर्भ :-** १. शासन परिपत्रक क्रमांक - संकिर्ण - २००९ / प्र. क्र. १० / रस्ते-१, दि. २३/०७/२००९  
२. या कार्यालयाचे परिपत्रक जा.क्र.का-२/नियोजन/१५०४/२०१३ . दि.८/३/२०१३  
३. या कार्यालयाचे परिपत्रक जा.क्र. मुअपु/का-२/ इमारती-२ / ५९४० /२०१७, दिनांक - १७.१०.२०१७.

उपरोक्त संदर्भ पत्र ३ अन्वये विषयांकित शासकीय बांधकामांमध्ये कृत्रिम वाळू (Crushed sand /Artificial Sand ) चा वापर करणेबाबत या कार्यालयामार्फत परिपत्रक काढण्यात आलेले आहे.

या परिपत्रकासोबत बांधकामामध्ये कृत्रिम वाळू (Crushed sand /Artificial Sand ) चा वापर करणे बाबतचे विनिर्देश त्या कामाच्या निविदेमध्ये Additional Specification मध्ये अंतर्भूत करणे बाबत स्वतंत्र "Annexure-I" जोडण्यात आलेले आहे.

सदर "Annexure-I" मधील मुद्दा क्रमांक १६ मध्ये यापूर्वी "Crushed sand" shall not be used for prestressed concrete works. असे नमूद करण्यात आले आहे. या बाबत सदर शुद्धिपत्रकान्वये खालील प्रमाणे सुधारणा करण्यात येत आहे.

**16. "Manufactured aggregates" shall not be permitted for prestressed concrete works.**

  
मुख्य अभियंता

सा.बां.प्रादेशिक विभाग  
पुणे.करिता

स्थळप्रतीवर मा.मु.अ.यांची स्वाक्षरी असे

प्रत:- मा.सचिव (बांधकामे), सा.बां.विभाग, मंत्रालय, मुंबई यांना वरील संदर्भ पत्रांच्या छायांकित प्रतींसह माहिती साठी .

प्रत:- अधीक्षक अभियंता, दक्षता व गुण नियंत्रण मंडळ, पुणे, माहिती साठी पुढील उचित कार्यवाही साठी.

प्रत:- अधीक्षक अभियंता, सा.बां.मंडळ, पुणे, सातारा, कोल्हापूर, सोलापूर यांना माहिती साठी पुढील उचित कार्यवाही साठी.

महाराष्ट्र शासन सार्वजनिक बांधकाम प्रादेशिक विभाग नागपूर मुख्य अभियंता सा.बां.प्रादेशिक विभाग, नागपूर यांचे कार्यालय, बांधकाम संकुल सिव्हील लाईन्स, नागपूर-४४०००१ (टे.नं.२५६२९८६) (फॅक्स क्र. २५६५९८३) E-Mail-nagpur.ce.@mahapwd.com	
क्रमांक : का-इमा-१/ कृत्रिम वाळू / ४३५	दिनांक : 15 JAN 2019

### परिपत्रक क्र. - ३६

**विषय :-** रस्ते, पूल व इमारतीच्या बांधकामातील कांक्रीट च्या बाबी मध्ये नैसर्गिक वाळू ऐवजी कृत्रिम वाळू ( Artificial sand/ V.S.I. Crushed sand) वापरण्याची परवानगी देणे बाबत

संदर्भ: १. या कार्यालयाचे पत्र क्र. इमा-१ /कृत्रिमवाळू/१०६८७/ ०१.१२.२०१८  
 २. शासन पत्र क्र. संकिर्ण-२००९/ प्र.क्र. १०/रस्ते-१ दि, २३.७.२००९

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१. वर्ष २०१८-१९ च्या राज्यस्तरीय दरसुची मध्ये नैसर्गिक वाळू शिवाय कृत्रिम वाळू (Artificial sand/ V.S.I. Crushed Sand) वापरण्याचा कांक्रीटच्या बाबी मध्ये समावेश करण्यात आला आहे व या अनुषंगाने अधीक्षक अभियंता, सा.बां.मंडळ चंद्रपूर यांनी मागणी केल्याप्रमाणे या कार्यालयाचे संदर्भिय पत्र क्र. १ अन्वये सा.बां.विभाग वर्धा अंतर्गतच्या एका कामाकरीता काही अटीच्या अधिन राहून कृत्रिम वाळू (Artificial sand/ V.S.I. Crushed Sand) वापरण्याची परवानगी देण्यात आलेली आहे.
२. आता अनेक कंत्राटदाराकडून कृत्रिम वाळू (Artificial sand/ V.S.I. Crushed Sand) वापरण्याची मागणी करण्यात येत आहे.
३. सबब, सदर मागणीच्या अनुषंगाने बांधकामातील कांक्रीट च्या बाबी मध्ये नैसर्गिक वाळू ऐवजी कृत्रिम वाळू (Artificial sand/ V.S.I. Crushed sand) वापरण्याची सा.बां. प्रादेशिक विभाग नागपूर अंतर्गतच्या कामावर खालील अटीच्या अधिन राहून परवानगी देण्यात येत आहे.

#### A. कंत्राटदारास परवानगी देणे:

- i. कृत्रिम वाळू वापरण्याची परवानगी करीता संबंधीत कंत्राटदाराने कार्यकारी अभियंता यांचे कडे विनंती करावी. त्यानंतर कार्यकारी अभियंता यांनी स्वतः कृत्रिम वाळू च्या Manufacturing Unit चे निरीक्षण करावे. तसेच वापरण्यात येणा-या दगडाचे निरीक्षण करून तयार होणारी कृत्रिम वाळू मानकाप्रमाणेच असेल याची खात्री करावी.
- ii. निरीक्षणानंतर कृत्रिम वाळू Automatic Vertical Shaft Impactor मशीन द्वारा तयार करण्यात येत आहे तसेच Washing Unit असल्याची खात्री करावी. V.S.I. मशीन द्वारा निर्मित कृत्रिम वाळूस परवानगी द्यावी.

- iii. परवानगी देण्यापूर्वी संबंधीत कार्यकारी अभियंता यांनी प्लांट व दगडाचा निरीक्षण अहवाल अभिलेख्यावर ठेवावा.
- iv. इमारतीचे plaster व Prestressed Concrete मध्ये कृत्रिम वाळू वापरण्यास परवानगी देवू नये.
- v. सोबतच्या Annexure -1 मधील Additional Specifications प्रमाणे व खालील परिच्छेद B. iv ला सहमत असल्याबाबतचे बंधपत्र सदर कंत्राटदाराकडून काम सुरु करण्यापूर्वी घेण्यात यावे.
- vi. सद्यःस्थितीत प्रगतीपथावर असलेल्या बांधकामांमध्ये कृत्रिम वाळूचा वापर करणे अनिवार्य झाल्यास याबाबत तांत्रिक मान्यता प्रदान करणा-या सक्षम प्राधिकारी यांना अवगत करण्यात यावे.

### B. प्रत्यक्ष काम करतांना घ्यावयाची काळजी:


- i. कृत्रिम वाळूचा वापर करणेपूर्वी अन्य आवश्यक चाचण्यांसह कॉंक्रीटकरीता चे Mix Design शासकीय प्रयोगशाळेतूनच करून घेणे अनिवार्य राहिल.
- ii. कृत्रिम वाळू ( Artificial sand/ V.S.I. Crushed sand) मानकाप्रमाणे तसेच सहपत्रामधील दिलेल्या चाचण्याप्रमाणे आहे कि नाही हे तपासण्याची प्राथमिक जबाबदारी कार्यकारी अभियंता यांची राहिल. या करीता कार्यकारी अभियंता व उपविभागीय अभियंता यांनी खालील प्रमाणे स्वतः साहित्याची तपासणी करावी.
  - कार्यकारी अभियंता यांनी करावयाची कार्यवाही:
    - a) सदर कृत्रिम वाळू वापरणे सुरु झाल्यानंतर सुरुवातीचे ७ दिवस कार्यकारी अभियंता यांनी कृत्रिम वाळूचे दोन नमुने स्वतः तपासावेत.
    - b) त्या पूढील ३० दिवस, ७ दिवसात एक नमुना या प्रमाणे वाळूची तपासणी करावी.
    - c) त्यापुढे प्रत्येक १५ दिवसात एक नमुन्याची तपासणी करावी.
  - उपविभागीय अभियंता यांनी करावयाची कार्यवाही:
    - a) सदर कृत्रिम वाळू वापरणे सुरु झाल्यानंतर सुरुवातीचे ७ दिवस उपविभागीय अभियंता यांनी कृत्रिम वाळूचे दररोज एक नमुना स्वतः तपासावा.
    - b) त्या पूढील ३० दिवस, ७ दिवसात दोन नमुना या प्रमाणे वाळूची तपासणी करावी.
    - c) त्यापुढे प्रत्येक १५ दिवसात दोन नमुन्याची तपासणी करावी.
- iii. उपविभागीय अभियंता यांनी randomly RMC plant चे inspection करावे. तेथे कृत्रिम वाळूच्या ऐवजी Stone Dust वा इतर तत्सम साहित्याचा वापर करण्यात येत तर नाही ना याची पाहणी करावी.
- iv. एखाद्या प्रकरणात Stone Dust वापरण्यात येत असल्याचे निदर्शनास आल्यास, संबंधीत कंत्राटदारावर पेनल्टी म्हणून सदर Plant वरून वापरण्यात आलेल्या त्यापूर्वीच्या कार्यान्वित केलेल्या कांक्रीटच्या परिमाणाचे ( Quantity) देयक देवू नये.

**C. देयकाबाबत:**

- i. प्रगतीतील कामांमध्ये कृत्रिम वाळू ( Artificial sand/ V.S.I. Crushed sand) वापरा करीता कोणतेही अतिरिक्त दर देण्यात येवू नये.
  - ii. कृत्रिम वाळू वापरल्यास कांक्रीट मध्ये विहित प्रमाणापेक्षा जास्त सिमेंट लागल्यास त्याकरीता संबंधीत ठेकेदारास अतिरिक्त मोबदला देण्यात येवू नये.
  - iii. काम पूर्ण झाल्यानंतर कार्यकारी अभियंता यांनी कृत्रिम वाळूच्या वापराबाबतचा सर्वकश अहवाल या कार्यालयास सादर करावा.
४. या पुढील तयार करण्यात येणा-या अंदाजपत्रकांमध्ये नैसर्गिक वाळू ऐवजी कृत्रिम वाळूच्या वापर प्रस्तावित करण्यापूर्वी दोन्ही साहित्यांच्या बेसिक दर व साहित्याचे वाहतुकीचे अंतर विचारात घेऊन संबंधीत क्षेत्रिय अधिकारी यांनी उचित निर्णय घ्यावा.
५. तसेच या कृत्रिम वाळू वापरावयाच्या अनुषंगाने आवश्यक Clauses या पुढील निविदा पत्रामध्ये ठेवावेत. ही जबाबदारी कार्यकारी अभियंता यांची राहिल.
६. कृत्रिम वाळू ( Artificial sand/ V.S.I. Crushed sand) म्हणजे Stone Crusher मधून निघालेली Stone Dust नसून Automatic Vertical Shaft Impactor मशीन द्वारा चांगल्या प्रतिका दगडाला भरडून तयार झाल्यानंतर Washing Unit मधून निघालेली I.S.Code 383-2016 या माणकाप्रमाणे असलेली कृत्रिम वाळू आहे याची कंत्राटदारांसह सा.बां.विभागातील सर्व अभियंत्यांनी नोंद घ्यावी

सहपत्र :- Annexure -1

मूळ प्रत मु.अ.द्वारा मंजूर

  
(श्रीमती सु. प्र. क्षीरसागर)  
सहा.मुख्य अभियंता (इमा.)

- प्रतिलिपी :-१ . अधीक्षक अभियंता, दक्षता व गुण नियंत्रण मंडळ, नागपूर यांना माहितीसाठी करीता
२. अधीक्षक अभियंता, सा.बां.मंडळ, नागपूर/चंद्रपूर/गडचिरोली यांना माहितीस व उचित कार्यवाहीस अग्रेषित.
  ३. कार्यकारी अभियंता ( प्रादेशिक विभागातील सर्व ) यांना माहिती व उचित कार्यवाही करिता अग्रेषित
  ४. सहा. मुख्य अभियंता (रस्ते / इमारती) यांना माहितीसाठी व आवश्यक कार्यवाहीसाठी.
  ५. उपविभागीय अभियंता / शाखा अभियंता ( प्रादेशिक विभागातील सर्व ) यांना माहिती व उचित कार्यवाही करिता अग्रेषित
  ६. मु. अ. कार्यालयातील कार्यासन - रस्ते १/२/३/४/५/६ /इमा १/२/३ / प्र.आ. यांना माहिती करिता.

## **“ Annexure-I ”**

### **Additional Specifications to be included in General Conditions of Contract for use of VSI Crushed Sand / Artificial Sand / Fine Aggregates.**


1. VSI Crushed Sand / Artificially manufactured sand / fine aggregates hereinafter referred to as “Crushed Sand” shall be as defined under CL. 3.1.2 of IS 383-2016.
2. The properties of “Crushed Sand” shall conform to the provisions of IS 383-2016.
3. The “Crushed Sand” shall be free of dust and other deleterious material.
4. The “Crushed Sand” shall be manufactured using “Automatic Vertical Shaft impactor” type Crusher only.
5. The quantity of Microfines (Particles below 75 microns) in “Crushed Sand” shall not be more than 7 %
6. The Contractor shall intimate the Engineer In-Charge regarding the source of supply of “Crushed Sand”. The source of supply of “Crushed Sand” shall be got approved by the Executive Engineer (Engineer-In-charge) prior to the start of work.
7. Each load of crushed sand whenever brought on site shall be tested for “Fineness modulus”. Fineness modulus shall be within permissible limits. If it doesn't fall within acceptable limits, it shall be rejected.
8. The Test of Compressive strength of concrete / Mortar using “Crushed sand” shall be carried out in presence of Department's Engineer as given below.
  - a) 100 % Cube testing in presence of Junior / Asstt. / Sectional Engineer
  - b) 25 % Cube testing in the presence of sub divisional Engineer
  - c) 5 % Cube testing in the presence of Executive Engineer (Engineer-In-charge)
9. The flakiness index and elongation index tests shall be within permissible limits.
10. The Concrete mix design for each grade of concrete using “Crushed sand” shall be carried out only in Government Quality Control laboratory and the same Mix Design shall be adopted.
11. As far as possible freshly produced “Crushed Sand” shall be used stored “Crushed sand” shall not be used.

12. For Plastering purpose, if the use of crushed sand is proposed it shall be used with addition of super plasticisers at the rate of 100 ml / Bag of Cement without extra cost to Government. Separate permission shall be taken for use in plastering from concerned Executive Engineer.
13. The following tests shall be carried out for the use of "Crushed sand"
- a) Sieve analysis
  - b) Specific gravity
  - c) Water absorption
  - d) Bulk density
  - e) Alkali aggregate reaction
  - f) Soundness
  - g) Deleterious Material
  - h) Organic impurities
  - i) Micro fines content
  - j) Test for silt and clay
  - k) Fineness Modulus test.
14. Necessary Bond regarding the use of "Crushed sand" shall be submitted by the Contractor clearly stating that, if any defects are observed during execution and defect liability period, the same shall be rectified at his own risk and cost.
15. Grading zone II mentioned under Clause 6.3 table 9 of fine aggregates is IS 383:2016 shall only be used for concreting.
16. Reversible drum type / Batch mix plant (pan type) concrete mixer shall be used for concrete.
17. "Crushed sand" shall not be used for prestressed concrete works.

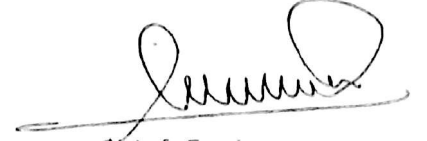
## PUBLIC WORKS DEPARTMENT

The State Schedule of Rates is recommended for the year 2019-20

with effect from 01.07.2019

  
(C.P.B. Bhasale)

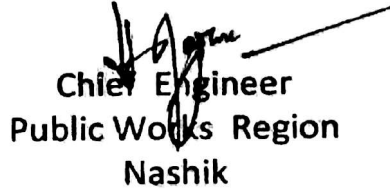
Chief Engineer  
Public Works Konkan Region  
Mumbai




Chief Engineer  
Public Works Region  
Pune



Chief Engineer  
Public Works Region  
Aurangabad

  
Chief Engineer  
Public Works Region  
Nashik

  
Chief Engineer  
Public Works Region  
Amravati



Chief Engineer  
Public Works Region  
Nagpur

Chief Engineer  
Public Works Region  
Mumbai

Approved

Secretary (Works)  
Public Works Department  
(M.S.)

Secretary (Roads)  
Public Works Department  
(M.S.)



# Govt. of Maharashtra Public Works Department

