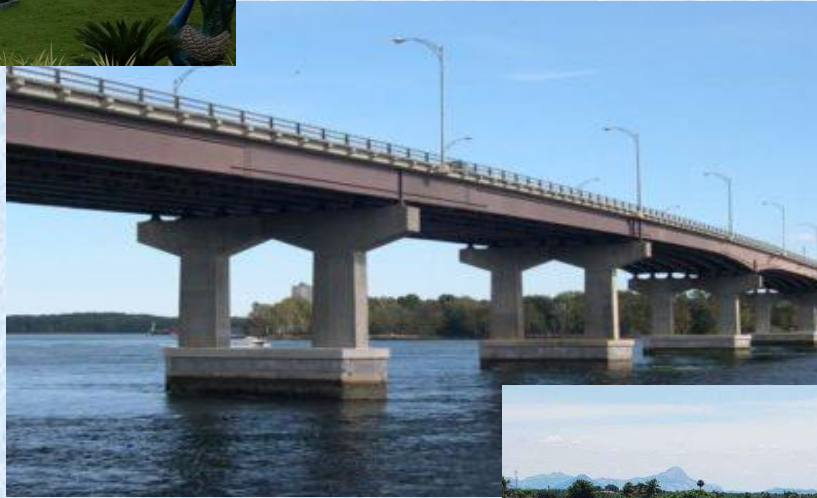




Govt. Of Maharashtra Public Works Department

Schedule of Rates 2018-19



For State of Maharashtra
(w.e.f. 19/09/2018)

महाराष्ट्र शासन

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क्रमांक:- रादसु-२०१८/प्र.क्र.२७/नियोजन-३
सार्वजनिक बांधकाम विभाग,
मंत्रालय, मुंबई-४०००३२.
दिनांक १९/०९/२०१८

प्रति,
मुख्य अभियंता,
सार्वजनिक बांधकाम प्रादेशिक विभाग,
नागपूर.

विषय :-राज्य स्तरावरील State Schedule Rates बाबत.

संदर्भ :-१) आपले पत्र क्र. का-रस्ते-६/८२२७ दि. १५.०९.२०१८

संदर्भाधीन पत्रासोबत प्राप्त राज्य दरसुचीस राज्यातील सर्व प्रादेशिक विभागांच्या मुख्य अभियंत्यांनी लिखित सहमती दर्शविली असून, त्याअनुषंगाने २०१८-१९ च्या राज्य दरसुचीस मान्यता प्रदान करण्यात येत आहे. ही राज्य दरसुची दिनांक १९.०९.२०१८ पासून संपुर्ण राज्यात लागू होईल. सदर राज्य दरसुची सार्वजनिक बांधकाम विभागाच्या संकेत स्थळावर प्रसिध्द करण्यात यावी.



(सु.ल. टोपले)

उपसचिव (रस्ते), महाराष्ट्र शासन

प्रत :- सर्व मुख्य अभियंता, सा. बां. प्रादेशिक विभाग, यांना माहितीसाठी.

Preface

Govt . of Maharashtra, Public Works Department is glad to publish new state schedule of Rates for the year 2018-19 as approved vide Govt. letter no रादसु-२०१८/प्र.क्र.२७/नियोजन-३, Dt. 19/09/2018

The S.S.R. shall be effective from 19.09.2018 . In 2018-19 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 86 New Items based on new innovative technology available in the market are also made available in 2018-19 SSR.

Please email your suggestion on nagpur.ce@mahapwd.com ,

nagpur.se@mahapwd.com. and

For Roads - nashik.se@mahapwd.com

For Buildings - mumbai.se@mahapwd.com

For Bridges & CD work - amaravati.se@mahapwd.com

For Green Building - pune.se@mahapwd.com

For Road Furniture - ratnagiri.se@mahapwd.com

For New Items - aurangabad.se@mahapwd.com

STATE SCHEDULE RATE FOR YEAR 2018-19

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1 Important issues for State Schedule of Rates

Section A - General Notes

- i) Schedule of Rates prepared for the year 2018-19 is Operative from 19th September, 2018 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 of that particular district may change rate/s for that particular item/s. While doing so concerned Superintending Engineer 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 area in Melghat, Coal / Magnese /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 2018-19 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 / Magnese Mining area	5%
h)	Naxalite affected area	20%

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 shall Specify the sugar factory areas/ coal mine areas/ Notified Tribal areas under their circles after ascertaining working condition of the Sugar factory.

The Notified Hilly / Inaccessible areas shall be considered as per Government Resolution, Planning Department No. DVK/1089/P-66/Y-19 Dated 23-11-1990 & 13-06-2003.

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

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.

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

For other works the increase in rates as above shall be applicable one time only.

The Superintending Engineers, shall notify the area (name of villages) where major coal/ mine activities are in progress and where these rates will be applicable.

- 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 DSR, the basic rates from all Districts are considered at an average level.**

Sr. No.	Material	Basic rate for 2018-19(Excluding GST)
a)	Cement /PPC	Rs. 4,700/- Per M. T.
b)	PSC	Rs. 4,600/- Per M. T.
c)	GGBS (IS-16714)	Rs. 3800/- Per M. T.
d)	TMT-FE-500 reinforcement	Rs. 45,785/- Per M. T.
e)	HCRM/ CRS reinforcement	Rs. 48,000/- Per M. T.
f)	Structural Steel	Rs. 46,000/- Per M. T.
g)	Corrosion Resistant Steel Reinforcement	Rs. 48,000/- Per M. T.
h)	Bitumen VG-30 (Packed)	Rs. 31,140/- Per M. T. Ex. Refinery Mumbai
i)	Bitumen VG-10 (Packed)	Rs. 30,340/- Per M. T. Ex. Refinery Mumbai
j)	Bitumen VG-40 (Bulk)	Rs. 29,210/- Per M. T. Ex. Refinery Mumbai
k)	Bitumen VG-30 (Bulk)	Rs. 28,040/- Per M. T. Ex. Refinery Mumbai
l)	Bitumen VG-10 (Bulk)	Rs. 27,240/- Per M. T. Ex. Refinery Mumbai
m)	Bitumen VG-40 (Packed)	Rs. 33,210/- Per M. T. Ex. Refinery Mumbai
n)	Bitumen Emulsion	Rs. 23,500/- Per M. T. Ex. Refinery Mumbai
o)	CRMB - 55	Rs. 29,640/- Per M. T.
p)	CRMB - 60	Rs. 29,910/- Per M. T.

The Rates of Bitumen given above are basic rates as on 01 June 2018. 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 dt. 21.05.2018.

The Portland Pozolona cement (PPC) & Portland slag cement (PSC) shall be of reputed manufacturer only.

Structural steel rate is general rate. However for specific section, SE shall decide actual rate. The grade of Bitumen considered in respective item is specified in the Item. However Superintending Engineer should decide the required grade of Bitumen.

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 preparation of estimates for provision should be made separately in recapitulation sheet.
- b) As per Govt. circular No.SSR - 1090/cr - 6453/PLN-3 Dt. 14-7-1993, and as per G. R. of Industries and power Department No. BCA – 2009 /CR -108 / Labour 7-A dated 17/06/2010. charges for labour amenities and cess for labour welfare, are included in 10% overhead charges in the Rate Abstracts.
- c) While preparing the rate analysis of items in SSR, 10% contractor's profit is considered.
- v) As per 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. Also Superintending Engineer shall time to time circulate the updated Royalty Rates & surcharge on Royalty whenever there is change.

In SSR for items of completed item rate, which are inclusive of material i.e.Rubble, Murum, Soil, 60mm./40mm. metal (Hand broken), royalty charges are not included in the rates. Prevalent Royalty charges including surcharge shall be separately considered while preparing estimate and shall be part of Schedule-B of tender. Any revision in Royalty charges and surcharge shall be included in the rate analysis of the respective item. If there is variation in these rates the difference shall be paid extra over the items to the contractor and shall be recovered, if these rates are reduced by Govt. i.e Revenue department.

For items of sand the rates are inclusive of royalty charges and surcharge. For crush metal separate royalty charges are not considered as it is finished product.

- vi) The basic rates of materials are as per the Rates charged by the main producers/ suppliers at their respective points of supply, as on the date of implementation of S.S.R.; are excluding GST. The rates of bulk/ packed bitumen, bitumen emulsion adopted for the items of bituminous works are based on the rates at ex-Refinery Mumbai, excluding GST.
- vii) Executive Engineer shall ensure that the material such as Cement, Steel, Bitumen are procured from main producers only.

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 includes 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 of above M-20 grade . If the consumption as per approved mix design varies (more or less 5%) from standard consumption accordingly the difference in the cost of cement shall not be paid to contractor.

xi) **Work in Severe / Adverse 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 is obtained. The foul condition shall be certified by the Executive Engineer.

xii) **Rates for Murum**

In SSR , rate for murum is considered from Private lands excluding royalty and including Land Rent.

xiii) **General Guidelines :-**

- a) The contents of S.S.R. Annexure are as follows :- Statement A-1 - Material Master. (Basic rates of materials) Statement A-2 - Labour Master.
- b) References of P. W. D. standard specification/ M. O. R. T. & 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 is empowered to prepare the new Schedule of Rates or make necessary amendment/s in SSR with the prior permission of the respective Chief Engineer.
- d) For works in Gadchiroli, Ratnagiri, Sindhudurg districts specific District Schedule of Rates shall be prepared by respective SE.
- e) The test facilities, for construction materials which are not available in Government Laboratories/ Institutions, test results can be obtained from ISO Certified private quality control Laboratories./ NABL Accredited laboratories.

- f) Printed outputs of SCADA system shall be attached with the Bills. If such results are not attached or if it is found that SCADA system is not used without prior permission of concerned Superintending Engineer, the penalty of 10% of final rate of the respective item, should be levied to contractor and shall be deducted from his RA/ final bill.
- g) 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.
- h) 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 prepared separately by the Superintending Engineer of that particular District.
- i) For cost towards procurement and temporary storage of water for construction purpose necessary provisions are made in Rate Abstract.
- j) Machinery hire charges rates are as per market rates and rates of Irrigation Department.
- k) Superintending Engineer 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 Seperate 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 floorwise shall be decided by concerned SE.

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. 5.00 / M.T./ km. Rate of heating and decanting 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.**
- v) The rates for items pertaining to Parks & Gardens shall be taken from the S.S.R. of Parks & Gardens wing.
- 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.
- 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. If separate item for scaffolding is considered in estimate, then this increase shall not be applied.

- ix) All concrete items considered in S.S.R. 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 by concerned Superintending Engineer shall be done 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 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 frozen 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 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/Nallah sand 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 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.
- xvii) While preparing Estimate, actual and practical distance of worksite from certified quarries must be taken and it shall be verified by concerned Executive Engineer.
- 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.

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 will 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 **labour insurance policy**, the same will be reimbursed to the contractor. If contractor fails to produce the labour insurance policy, Concerned Executive Engineer shall **draw the policy**, the amount **Two Times** amount of expenditure incurred for drawing the policy shall be recovered as penalty 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 labour Insurance must be renewed/ extended as per requirement.

Section E - Instructions for Execution of work

Precautions to be taken DURING EXECUTION

- i) Executive Engineer shall ensure that the material such as Cement, Steel, Bitumen are procured from main producers only.
- ii) **For all items of maintenance for Road, Buildings and Bridges – Photographs showing initial conditions and photographs showing condition after execution of that particular item should be attached with Measurement Book. Provision of such items shall be made in estimate itself.**
- iii) Time frame should be fixed for completion of items.
- iv) Periodicity as per Yellow Book 1991 should be watched before taking of the work due to some reasons, if period of periodicity cannot be followed then suitable reasons shall kept on record by technical sanctioning authority.
- v) Calibrations of all Mechanized Machinery such as Drum Mix Plant, Batch Mix Plant, RMC, Intelligent Compactor etc. must be made before starting of the work.
- vi) Construction data obtained from SCADA should be processed by Executive Engineer on regular basis.
- vii) For Bridges having span more than 60 Meters, load testing should invariably be done after completion of the work.

Section F - Additional note for Costal 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 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. The boat charges shall be considered as follows:
 - a) Small boat (Single Cylinder @ Carrying Capacity = 1.50 MT) : Rs. 3000/- Day
 - b) Big boat (Double Cylinder @ Carrying Capacity = 5.00 MT) : Rs. 6000/- Day
- viii) The items included in this schedule of rates are special items required for Harbour Engineering Works. For other items, State schedule of Rates should be adopted.

Section G - 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 67 102 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 2018-19 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		Fixing chainage Stone /Bench mark Stone / Center Stone / Apex Stone in earth and all sorts of soil and soft murum including conveying excavated material, fixing stone, including painting lettering numbers and back filling etc. complete.	As directed by Engineer in charge	Number	121	121
2	Road Survey and DPR	1.02		Taking the trial pit for roads, alignment, C.D. Works in earth soil of all sorts, sands gravel or soft murum, including stacking the excavated material including all lifts and necessary back filling upto depth 1.5 meters	As directed by Engineer in charge	Cubic Metre	301	302
3	Road Survey and DPR	1.03		Taking the trial pit for roads, alignment, C.D. Works in earth soil of all sorts, sands gravel, or soft murum, including stacking the excavated material including all lifts and necessary back filling upto depth 3.0 meters	As directed by Engineer in charge	Cubic Metre	324	324
4	Road Survey and DPR	1.04		Taking the trial pit for roads, alignment, C.D. Works in Hard murum , including stacking the excavated material including all lifts and necessary back filling upto depth 1.5 meters	As directed by Engineer in charge	Cubic Metre	404	403
5	Road Survey and DPR	1.05		Taking the trial pit for roads, alignment, C.D. Works in Hard murum , including stacking the excavated material including all lifts and necessary back filling upto depth 3.0 meters	As directed by Engineer in charge	Cubic Metre	457	457
6	Road Survey and DPR	1.06		Taking the trial pit for roads, alignment, C.D. Works in Hard murum , and Boulders including stacking the excavated material including all lifts and necessary back filling upto depth 1.5 meters	As directed by Engineer in charge	Cubic Metre	511	511
7	Road Survey and DPR	1.07		Taking the trial pit for roads, alignment, C.D. Works in Hard murum, and Boulders including stacking the excavated material including all lifts and necessary back filling upto depth 3.0 meters	As directed by Engineer in charge	Cubic Metre	564	565
8	Road Survey and DPR	1.08		Fixing survey pegs in earth and all sorts Soil, Sand, Gravel, Soft Murum, etc. including conveying, fixing etc. complete.	As directed by Engineer in charge	Number	7	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.
9	Road Survey and DPR	1.09		Reconnaissance Survey of Road alignment in plain country including taking three dimensions of apexes, verification of type of land etc. alongwith the alignment etc. complete (Without Chaining) .	As directed by Engineer in charge	Kilometre	1367	1281
10	Road Survey and DPR	1.10		Reconnaissance Survey of Road alignment in plain country including taking three dimensions of apexes, verification of type of land etc. alongwith the alignment etc. complete (With Chaining) .	As directed by Engineer in charge	Kilometre	3817	3170
11	Road Survey and DPR	1.11		Reconnaissance Survey of a road alignment for new hilly road 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. (Without Chaining)	As directed by Engineer in charge	Kilometre	3953	3142
12	Road Survey and DPR	1.12		Reconnaissance Survey of road alignment for new hilly road 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. (With Chaining)	As directed by Engineer in charge	Kilometre	5030	4201
13	Road Survey and DPR	1.13		Reconnaissance Survey of road alignment in hilly road 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. (Without Chaining) .	As directed by Engineer in charge	Kilometre	2149	1550
14	Road Survey and DPR	1.14		Reconnaissance Survey of road alignment in hilly road 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. (With Chaining) .	As directed by Engineer in charge	Kilometre	4227	3407
15	Road Survey and DPR	1.15		Detailed survey of road in plain 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	4475	2100
16	Road Survey and DPR	1.16		Detailed survey of road length where earthwork is partly done including chaining and levelling with cross sections at every two chains inclusive of closing survey each day.	As directed by Engineer in charge	Kilometre	4410	2100

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
17	Road Survey and DPR	1.17		Detailed survey of road through hilly country taking cross section at every chains or as required including chaining , levelling and closing survey each day.	As directed by Engineer in charge	Kilometre	7281	3578
18	Road Survey and DPR	1.18		Detailed survey of road through hilly country taking cross section at every chains as desired including chaining ,levelling and closing survey each day utilising existing cart track.	As directed by Engineer in charge	Kilometre	5269	3220
19	Road Survey and DPR	1.19		Providing and Fixing Wooden survey pegs including White washing etc. complete.	As directed by Engineer in charge	Number	27	13
20	Road Survey and DPR	1.2		Carrying out catchment area traverse survey of minor stream (not traceable in toposheet) below 100 acres	As directed by Engineer in charge	Kilometre	1641	654
21	Road Survey and DPR	1.21		Cutting down branches of trees , bushes etc. stacking the material neatly as directed (For Motarable Road)	As directed by Engineer in charge	Kilometre	5441	5378
22	Road Survey and DPR	1.22		Providing detailed layout plan 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 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 polyester 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. a) up to 1 Acre	MORTH	Acre	6305	5122

Sr. No.	Chapter	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 detailed layout plan 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) Above 1 Acre	As directed by Engineer in charge	Acre	6915	5635
24	Road Survey and DPR	1.24		Reconnaissance survey 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	22203	9713
25	Road Survey and DPR	1.25		Preparation of detailed Plans and Estimates of road 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	11754	10536
26	Road Survey and DPR	1.26		Survey of C.D. works 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	9786	7225

Sr. No.	Chapter	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		Survey of Minor bridge 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	45198	24803
28	Road Survey and DPR	1.28		Survey of major bridge 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	1349	831
29	Road Survey and DPR	1.29		Contour Survey 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	78426	47454

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
30	Road Survey and DPR	1.3		Survey of raised Causeway 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	36563	16190
31	Road Survey and DPR	1.31		Preparation of detailed plans and estimates of Raise Causeway 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	8461	7534
32	Road Survey and DPR	1.32		Complete survey of stream having catchment area upto 1 sq. mile including catchment survey taking necessary L.S./C.S. and other details etc. complete.	As directed by Engineer in charge	Number	6514	2869
33	Road Survey and DPR	1.33		Complete survey of stream having catchment area above 1 sq. Mile and upto 5 sq. Miles including taking necessary L.S./C.S. and other details etc. complete.	As directed by Engineer in charge	Number	12186	7838
34	Road Survey and DPR	1.34		Reconnaissance survey of alignment in plain country for approaches to the bridge including taking three dimensions of apexes. (Without chaining)	As directed by Engineer in charge	Kilometre	1261	1236
35	Road Survey and DPR	1.35		Fly levelling for carrying out bench mark.	As directed by Engineer in charge	Kilometre	1095	700
36	Road Survey and DPR	1.36		Detailed survey of approaches including Chain and Compass survey along bridge alignment and approaches including closing each day work.	As directed by Engineer in charge	Kilometre	3089	2365
37	Road Survey and DPR	1.37		Taking longitudinal section of streams 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	3814	3082

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
38	Road Survey and DPR	1.38		Demarcation of right of way (ROW) 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	7371	3844
39	Road Survey and DPR	1.39		Preparation of Land Acquisition proposal 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. For new alignment.	As directed by Engineer in charge	Kilometre	20626	8032
40	Road Survey and DPR	1.40		Preparation of Land Acquisition proposal 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. For existing alignment.	As directed by Engineer in charge	Kilometre	16502	7128
41	Road Survey and DPR	1.41		Carrying of detailed topographic survey by using total station 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. Plain Terrain New Alignment	As directed by Engineer in charge	Kilometre	30700	14347

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
42	Road Survey and DPR	1.42		Carrying of detailed topographic survey by using total station 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. Plain Terrain Existing Alignment.	As directed by Engineer in charge	Kilometre	29224	13148
43	Road Survey and DPR	1.43		Carrying of detailed topographic survey by using total station 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. Hilly Terrain New Alignment	As directed by Engineer in charge	Kilometre	39937	21548
44	Road Survey and DPR	1.44		Demarcation of Road boundry (ROW) 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	36991	10915

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
45	Road Survey and DPR	1.45		<p>Taking trial bores 75 to 100 mm for 53.0 to 88.9 mm core dia over burden (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.</p> <p>a) over burden 0 to 50 meter.</p>	As directed by Engineer in charge	Running Metre	1659	280
46	Road Survey and DPR	1.46		<p>Taking trial bores 75 to 100 mm for 53.0 to 88.9 mm core dia in rocks 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.</p> <p>Quartzite with diamond drill with Nx Bit 0 to 50 metre</p>	As directed by Engineer in charge	Running Metre	6223	323
47	Road Survey and DPR	1.47		<p>Taking trial bores 75 to 100 mm for 53.0 to 88.9 mm core dia in rocks 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.</p> <p>Quartzite with diamond drill with Ax Bit 0 to 50 metre</p>	As directed by Engineer in charge	Running Metre	3560	646

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
48	Road Survey and DPR	1.48		Taking trial bores 75 to 100 mm for 53.0 to 88.9 mm core dia in rocks 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 concerning office as directed. Other Rock with diamond drill. 0 to 50 metre	As directed by Engineer in charge	Running Metre	3237	323
49	Road Survey and DPR	1.49		Providing tun tappa core boxes of jungle wood of size1.25mx 0.35x 0.15m for preserving core sample with all fixtures and fastening handles including locking arrangment etc . complete.	As directed by Engineer in charge	Number	4733	1299
50	Road Survey and DPR	1.50		Providing and maintaining temporary platform of bore location in river bed in upto 1M of standing water 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	11010	5327
51	Road Survey and DPR	1.51		Providing and maintaining temporary platform for erecting 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. 1 m to 2 m	As directed by Engineer in charge	Number	17346	5327
52	Road Survey and DPR	1.52		Providing and maintaining temporary platform for erecting 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. 2 m and Above.	As directed by Engineer in charge	Number	17973	5327

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
53	Road Survey and DPR	1.53		Providing and maintaining temporary platform for inspection from one bank to another bank of bore location in river bed in all depth of standing water of size 1.30 x 2.00 M 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	15326	8016
54	Road Survey and DPR	1.54		Conveying the boring machine and engine 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	73	10
55	Road Survey and DPR	1.55		Shifting boring plant 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	6034	5652
56	Road Survey and DPR	1.56		Providing detailed reports of the inspection logging of drilled hole 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	8725	0
57	Road Survey and DPR	1.57		Providing detailed geological reports 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	36353	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.
58	Road Survey and DPR	1.58		Preparing land plans and land schedule 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	32248	10644
59	Road Survey and DPR	1.59		Geometrical design of road horizontal and vertical curves 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	10117	3766
60	Road Survey and DPR	1.60		Transferring and taking out design on coordinates of baseline 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	10567	4869

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
61	Road Survey and DPR	1.61		Preparation of roadway, drawing (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	5982	4962
62	Road Survey and DPR	1.62		Preparation of Engineering drawing 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	6726	5706
63	Road Survey and DPR	1.63		Survey of C.D. works 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	6125	3919
64	Road Survey and DPR	1.64		Design of junctions 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. a) Major Junction	As directed by Engineer in charge	Number	21518	15169
65	Road Survey and DPR	1.65		Design of junctions 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) Minor Junction	As directed by Engineer in charge	Number	12700	7585
66	Road Survey and DPR	1.66		Preparaion of initial design of flyovers 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	618	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.
67	Road Survey and DPR	1.67		Preparation of draft / Final Report 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	221682	157473
68	Road Survey and DPR	1.68		Preparation of Autocad drawing with colour print for Building / Bridge / Road/ CD Works in required size etc. complete. - A-0 Size	As directed by Engineer in charge	Number	3608	3000
69	Road Survey and DPR	1.69		Preparation of Autocad drawing with colour print for Building / Bridge / Road/ CD Works in required size etc. complete. A-1 Size	As directed by Engineer in charge	Number	3000	2561
70	Road Survey and DPR	1.70		Preparation of Autocad drawing with colour print for Building / Bridge / Road/ CD Works in required size etc. complete. A-2 Size	As directed by Engineer in charge	Number	2396	2128
71	Road Survey and DPR	1.71		Autocad drawing with colour print out for Building / Bridge / Road/ CD Works in required size etc. complete. A-0 Size	As directed by Engineer in charge	Number	190	0
72	Road Survey and DPR	1.72		Autocad drawing with colour print out for Building / Bridge / Road/ CD Works in required size etc. complete. A-1 Size	As directed by Engineer in charge	Number	115	0
73	Road Survey and DPR	1.73		Autocad drawing with colour print out for Building / Bridge / Road/ CD Works in required size etc. complete. A-2 Size	As directed by Engineer in charge	Number	58	0
74	Road Survey and DPR	1.74		Autocad drawing with colour print out for Building / Bridge / Road/ CD Works in required size etc. complete. A-3 Size	As directed by Engineer in charge	Number	29	0
75	Road Survey and DPR	1.75		Autocad drawing with colour print out for Building / Bridge / Road/ CD Works in required size etc. complete. A-4 Size	As directed by Engineer in charge	Number	11	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.
76	Road Survey and DPR	1.76		<p>Deploying Automated Traffic Count and classification system on Road (Two Lane) 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.</p> <p>A) Up to 7 Days (Two Lane)</p>	As directed by Engineer in charge	Day	27679	11077
77	Road Survey and DPR	1.77		<p>Deploying Automated Traffic Count and classification system on Road (One Lane) 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.</p> <p>B) Extra charges for every additional lane (If required)</p>	As directed by Engineer in charge	Day	20722	9300

Sr. No.	Chapter	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	Cutting down trees including trunks and branches with girths above 30cm to 60cm 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	370	332
79	Road Sub grade	2.02	MORTH 201	Cutting down trees including trunks and branches with girths above 60cm to 90cm 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	618	504
80	Road Sub grade	2.03	MORTH 201	Cutting down trees including trunks and branches with girths above 90cm to 180cm 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	1266	1114
81	Road Sub grade	2.04	MORTH 201	Cutting down trees including trunks and branches with girths above 180cm to 270cm 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	2166	1938
82	Road Sub grade	2.05	MORTH 201	Cutting down trees including trunks and branches with girths above 270cm to 450cm 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	2231	2090
83	Road Sub grade	2.06	MORTH 201	Cutting down trees including trunks and branches with girths above 450cm 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	2443	2286
84	Road Sub grade	2.07	MORTH 201	Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area .	MORTH 201	Square Metre	3	3
85	Road Sub grade	2.09	MORTH 201	Clearing and grubbing road land 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 lead of 1000 metres 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	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum 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. (with prior permission of S.E.)		Cubic Metre	216	216
87	Road Sub grade	2.11	MORTH 301	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum 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.	MORTH 301	Cubic Metre	72	5
88	Road Sub grade	2.13	MORTH 301	Excavation for roadway in hard murum and boulder 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.	MORTH 301	Cubic Metre	83	5
89	Road Sub grade	2.14	MORTH 301	Excavation for roadway in soft rock , 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 or stacking as directed.	MORTH 301	Cubic Metre	123	17
90	Road Sub grade	2.15	MORTH 301	Excavation for roadway in hard rock by controlled blasting 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 stocking as directed.	MORTH 301	Cubic Metre	176	19
91	Road Sub grade	2.16	MORTH 301	Excavation for roadway in hard rock by wedging and chiselling or line drilling 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.	MORTH 301	Cubic Metre	862	287
92	Road Sub grade	2.18	MORTH 309	Excavation for catch / side water gutter in all sorts of soils 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	72	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.
93	Road Sub grade	2.20	MORTH 309	Excavation for catch / side water gutter in Hard murum and boulder strata 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	83	5
94	Road Sub grade	2.21	MORTH 309	Excavation for catch / side water gutter in Soft rock strata 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	144	17
95	Road Sub grade	2.22	MORTH 309	Excavation for catch / side water gutters in Hard rock strata 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	862	287
96	Road Sub grade	2.23	MORTH 305	Watering and compacting of embankment 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. with vibratory roller.	MORTH 305	Cubic Metre	71	3
97	Road Sub grade	2.24	MORTH 305	Watering and compacting of embankment 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. with Power roller.	MORTH 305	Cubic Metre	57	3
98	Road Sub grade	2.25	MORTH 305	Conveying materials obtained from road cutting 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 lead of over 50m. to 300m. inclusive from the site of excavation to the site of deposition as directed.	MORTH 305	Cubic Metre	133	64
99	Road Sub grade	2.26	MORTH 305	Conveying materials obtained from road cutting 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 lead of 300m. to 500m. inclusive, from the site of excavation to the site of deposition as directed.	MORTH 305	Cubic Metre	269	150

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
100	Road Sub grade	2.27	MORTH 305	Providing earth work in embankment with approved materials obtained from departmental land 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 vibratory roller to achieve not less than 97 % of standard proctor density etc. complete. (Material obtained from departmental Land)	MORTH 305	Cubic Metre	151	6
101	Road Sub grade	2.28	MORTH 305	Providing earth work in embankment with approved materials obtained from other sources 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 vibratory roller with V-Sat attachment to achieve not less than 97 % of standard proctor density etc. complete (Material obtained from Other sources)	MORTH 305	Cubic Metre	395	6
102	Road Sub grade	2.29a		Supplying hard murum/ kankar at the road site, including conveying and stacking complete.		Cubic Metre	294	38
103	Road Sub grade	2.29b		Supplying soft murum at the road site, including conveying and stacking complete.		Cubic Metre	283	38
104	Road Sub grade	2.30		Spreading hard murum/ soft murrum/ gravel or kankar for side width complete		Cubic Metre	57	57
105	Road Sub grade	2.31		Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.		Square Metre	16	3
106	Road Sub grade	2.32		Picking the road surface including sectioning etc. complete (WBM surface.)		Square Metre	19	10
107	Road Sub grade	2.33		Picking the road surface including sectioning etc. complete (BT surface.)		Square Metre	26	10
108	Road Sub grade	2.34		Providing dry rubble stone pitching 23 cm (about 9) thick including all material, quarry spalls, labour etc. complete.		Square Metre	289	83
109	Road Sub grade	2.35	MORTH 402	Providing, laying and spreading soil 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 OMC to achieve atleast 98 per cent of the max dry density to form a layer of sub base.	MORTH 402	Cubic Metre	490	23

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
110	Road Sub grade	2.36	MORTH 402	Providing, laying and spreading soil 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 OMC to achieve the desired unconfined compressive strength and to form a layer of sub-base/base.	MORTH 402	Cubic Metre	596	23
111	Road Sub grade	2.37	MORTH 402	Laying and spreading available soil 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 OMC to the desired density to form a layer of improved sub grade.	MORTH 402	Cubic Metre	456	18
112	Road Sub grade	2.39	MORTH 403	Construction of embankment with Flyash 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 200mm thickness each at OMC, all as specified in IRC: SP: 58-2001 and as per approved plans.	MORTH 403	Cubic Metre	105	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	Construction of granular sub-base 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 with vibratory roller to achieve the desired density, complete as per clause 401 -- Plant Mix Method and Grading - I Material	MORTH 401	Cubic Metre	1521	26
114	Road Sub Base and Base Course	3.02	MORTH 401	Construction of granular sub-base 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 with vibratory roller to achieve the desired density, complete as per clause 401 -- Plant Mix Method and Grading - II Material	MORTH 401	Cubic Metre	1521	26
115	Road Sub Base and Base Course	3.03	MORTH 401	Construction of granular sub-base 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 with vibratory roller to achieve the desired density, complete as per clause 401-- Plant Mix Method and Grading - III Material	MORTH 401	Cubic Metre	1521	26
116	Road Sub Base and Base Course	3.04	MORTH 401	Construction of granular sub-base 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 with vibratory roller to achieve the desired density, complete as per clause 401 -- By Mix in Place Method and Grading - I Material	MORTH 401	Cubic Metre	1316	23
117	Road Sub Base and Base Course	3.05	MORTH 401	Construction of granular sub-base 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 with vibratory roller to achieve the desired density, complete as per clause 401 -- By Mix in Place Method and Grading - II Material	MORTH 401	Cubic Metre	1316	23

Sr. No.	Chapter	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	Construction of granular sub-base 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 with vibratory roller to achieve the desired density, complete as per clause 401 -- By Mix in Place Method and Grading - III Material	MORTH 401	Cubic Metre	1316	23
119	Road Sub Base and Base Course	3.07	MORTH 403	Lime, Fly ash Stabilized Soil Sub-Base -- Construction of Sub-base using lime - Fly ash admixture with granular soil , 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	973	9
120	Road Sub Base and Base Course	3.08	MORTH 404	Cement Treated Crushed Rock 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 OMC to achieve the desired unconfined compressive strength and to form a layer of sub-base/base course.	MORTH 404	Cubic Metre		
121	Road Sub Base and Base Course	3.08a	MORTH 404	A) For Sub-base Course	MORTH 404	Cubic Metre	1788	23
122	Road Sub Base and Base Course	3.08b	MORTH 404	B) For Base Course	MORTH 404	Cubic Metre	1696	23
123	Road Sub Base and Base Course	3.09	MORTH 305.4.3	Scarifying the existing granular road surface 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	35	28

Sr. No.	Chapter	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	3.10	MORTH 202	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately etc. complete.	MORTH 202	Cubic Metre	323	167
125	Road Sub Base and Base Course	3.11	MORTH 202	Dismantling of cement concrete pavement by mechanical means 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	852	125
126	Road Sub Base and Base Course	3.12	MORTH 404.3.1	Making 50 mm x 25 mm furrows , 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	6	6
127	Road Sub Base and Base Course	3.13	MORTH 404.3.1	Making 50 mm x 50 mm furrows , 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	12	12
128	Road Sub Base and Base Course	3.14		Brooming the W.B.M. surface by wire Brushes, coir brushers, dusting, cleaning etc. for receiving the bituminous treatment complete. Brooming the water Bound Macadam surface by wire.		Square Metre	13	13
129	Road Sub Base and Base Course	3.18	MORTH 404	Providing, laying, spreading and compacting 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 with Vibratory roller . to the required density. By Mechanical Means - Grading I (Using Screening Type A (13.2) mm Aggregate)	MORTH 404	Cubic Metre	1429	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.
130	Road Sub Base and Base Course	3.19	MORTH 404	Providing, laying, spreading and compacting 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 with vibratory roller to the required density. By Mechanical Means - Grading I (Using Screening Type B (11.2 mm) Aggregate)	MORTH 404	Cubic Metre	1406	27
131	Road Sub Base and Base Course	3.20	MORTH 404	Providing, laying, spreading and compacting 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 with vibratory roller to the required density. By Mechanical Means - Grading II (Using Screening Type B (11.2 mm) Aggregate)	MORTH 404	Cubic Metre	1572	27
132	Road Sub Base and Base Course	3.21	MORTH 405	Crushed Cement Concrete Sub-base / Base - 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	310	161
133	Road Sub Base and Base Course	3.22	MORTH 405.2	Penetration Coat Over Top Layer of Crushed Cement Concrete Base -- 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

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
134	Road Sub Base and Base Course	3.23	MORTH 406	Wet Mix Macadam -- 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 with vibratory roller to achieve the desired density. Laying By Grader/Paver.	MORTH 406	Cubic Metre	1523	30
135	Road Sub Base and Base Course	3.24	MORTH 410	Crusher Run Macadam Base -- Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller 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	1344	19
136	Road Sub Base and Base Course	3.25	MORTH 410	Crusher Run Macadam Base -- Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller 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	1344	19
137	Road Sub Base and Base Course	3.26	MORTH 410	Crusher Run Macadam Base -- Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller to clause 410 to form a layer of sub-base/Base -- By Mixing Plant Method for 53 mm maximum size	MORTH 410	Cubic Metre	1569	18
138	Road Sub Base and Base Course	3.27	MORTH 410	Crusher Run Macadam Base -- Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller to clause 410 to form a layer of sub-base/Base -- By Mixing Plant Method for 45 mm maximum size	MORTH 410	Cubic Metre	1569	18
139	Road Sub Base and Base Course	3.28	MORTH 202	Dismantling of existing B.T. Surface (flexible Pavement) to a depth of 50 mm.by cold milling with Writgen or similar type machine including loading of dismantled material by automatic conveyor belt to transport vehicle at site excluding lead charges	MORTH 202	Square Metre	13	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.
140	Road Sub Base and Base Course	3.29	MORTH 502	Prime coat - 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	19	1
141	Road Sub Base and Base Course	3.30	MORTH 503	Providing and applying tack coat on the prepared surface heating by flames in Boiler and spraying bitumen set footed in bitumen boiler on B.T. surface 2.5 kg/10 sqm. (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 503	Square Metre	10	1
142	Road Sub Base and Base Course	3.31	MORTH 503	Providing and applying tack coat on the prepared surface heating by flames in Boiler and spraying bitumen with sprayer on Dry / Hungry B.T. surface 3 kg/10 sqm. (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 503	Square Metre	11	1
143	Road Sub Base and Base Course	3.32	MORTH 503	Providing and applying tack coat on the prepared surface heating by flames in Boiler and spraying bitumen with sprayer on Granular surface treated with primer @ 2.75 kg/10 sqm (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 503	Square Metre	10	1
144	Road Sub Base and Base Course	3.33	MORTH 503	Providing and applying tack coat on the prepared surface heating by flames in Boiler and spraying bitumen with sprayer on Concrete surface treated with primer @ 3.25 kg/10 sqm (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 503	Square Metre	12	1
145	Road Sub Base and Base Course	3.34	MORTH 503	Providing and applying tack coat with bitumen emulsion (RS1) 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	8	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.
146	Road Sub Base and Base Course	3.35a	MORTH 505	Providing and constructing 75 mm. thick Modified Penetration Macadam (MPM) road surface including all materials, preparing the existing road surface, spreading 40 mm. stone metal layers 30% crusher broken metal + 70% Hand broken (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	179	6
147	Road Sub Base and Base Course	3.35b	MORTH 505	Providing and constructing 75 mm. thick Modified Penetration Macadam (MPM) road surface including all materials, preparing the existing road surface, spreading 40 mm. stone metal layers 100% crusher broken metal 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	187	6
148	Road Sub Base and Base Course	3.36a	MORTH 505	Providing and constructing 75 mm. thick Modified Penetration Macadam (MPM) 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 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	177	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.
149	Road Sub Base and Base Course	3.36b	MORTH 505	Providing and constructing 75 mm. thick Modified Penetration Macadam (MPM) road surface including all materials, preparing the existing road surface, spreading 40 mm. stone layers metal 100% crusher broken metal 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	185	2
150	Road Sub Base and Base Course	3.37a	MORTH 505	Providing and constructing 50 mm. thick Modified Penetration Macadam (MPM) road surface including all mataerials, preparing the existing road surface, spreading 40mm. stone metal layers 30% crusher broken metal + 70% Hand broken (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 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	134	7
151	Road Sub Base and Base Course	3.37b	MORTH 505	Providing and constructing 50 mm. thick Modified Penetration Macadam (MPM) road surface including all mataerials, preparing the existing road surface, spreading 40mm. stone metal layers 100% crusher broken metal with conical crusher 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 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	139	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.
152	Road Sub Base and Base Course	3.38a	MORTH 505	Providing and constructing 50 mm. thick Modified Penetration Macadam (MPM) 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 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 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	141	2
153	Road Sub Base and Base Course	3.38b	MORTH 505	Providing and constructing 50 mm. thick Modified Penetration Macadam (MPM) road surface including all materials, preparing the existing road surface, spreading 40mm. stone layers metal 100% crusher broken metal with conical crusher palnt, 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 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	146	2
154	Road Sub Base and Base Course	3.39	MORTH 506	Providing, laying and compacting of Built-up-spray grout layer 75 mm thick over prepared base consisting of two layers composite construction of compacted crushed coarse aggregates with application of bituminous binder of biyumen 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 with static roller 8 to 10 MT . Excluding cost of tack coat and scarifying etc. Complete.(VG-30 bulk bitumen rates are considered to arrive at rates)	IRC- 47	Square Metre	214	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.
155	Road Sub Base and Base Course	3.40	MORTH 504	BITUMINOUS MACADAM: Proving and laying bituminous macadam using crushed aggregates of Grading 1 , 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 Batch mix type hot mix plant with SCADA, Sensor Paver, vibratory roller.(VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 504	Cubic Metre	4598	58
156	Road Sub Base and Base Course	3.42	MORTH 504	BITUMINOUS MACADAM: --Providing and laying bituminous macadam using crushed aggregate of Grading 1 , 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 Drum Mix plant ,Sensor paver,and Vibratory roller excluding prime/Tack coat etc. complete -- Bitumen 3.30% of specified grade (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 504	Cubic Metre	4514	58
157	Road Sub Base and Base Course	3.44	MORTH 507	DENSE BITUMINOUS MACADAM: Proving and laying dense bituminous macadam using crushed aggregates of Grading 1 , 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 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)	MORTH 507	Cubic Metre	5734	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.
158	Road Sub Base and Base Course	3.46	MORTH 507	DENSE BITUMINOUS MACADAM :--Providing and laying dense bituminous macadam using crushed aggregate of grading 1 , 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 Drum Mix plant ,Sensor paver, and Vibratory roller excluding prime/Tack coat etc. complete -- Bitumen VG-30 grade with stone dust filler (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 507	Cubic Metre	5575	61
159	Road Sub Base and Base Course	3.48	MORTH 509	BITUMINOUS CONCRETE : - Providing and laying bituminous concrete using crushed aggregates of grading 1 , 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 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)	MORTH 509	Cubic Metre	6003	62

Sr. No.	Chapter	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 Sub Base and Base Course	3.50	MORTH 509	BITUMINOUS CONCRETE --Providing and laying bituminous concrete using crushed aggregate of grading 1 , 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 drum mix plant with SCADA, Sensor paver and Vibratory roller excluding prime/Tack coat etc. complete -- Bitumen of specified grade with stone dust filler. (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 509	Cubic Metre	6384	62

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
161	Road Surfacing Course	4.01	MORTH 513	Providing bituminous Type A liquid seal coat 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, 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	40	1
162	Road Surfacing Course	4.03	MORTH 513	Providing and laying of Type - B premix seal coat with HMP 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 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	38	1
163	Road Surfacing Course	4.04	MORTH 510	Surface Dressing -- 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. -- a) 19 mm nominal chipping size (bitumen 12.00 kg/10 Sq.M.) -- Bitumen of specified grade (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 510	Square Metre	54	1
164	Road Surfacing Course	4.05	MORTH 510	Surface Dressing -- 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) 13 mm nominal chipping size (bitumen 10.00 kg/10 Sq.M) -- Bitumen of specified grade (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 510	Square Metre	45	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	4.06	MORTH 510	Surface Dressing -- 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. -- c) 10 mm nominal chipping size (bitumen 9.0 kg/10 Sq.M -- Bitumen of specified grade (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 510	Square Metre	44	1
166	Road Surfacing Course	4.07	MORTH 510	Surface Dressing -- 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. -- d) 6 mm nominal chipping size (bitumen 7.50 kg/10 Sq.M -- Bitumen of specified grade (VG-30 bulk bitumen rates are considered to arrive at rates)	MORTH 510	Square Metre	38	1
167	Road Surfacing Course	4.11	MORTH 511	Open Graded Premix Surfacing- 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 excluding prime / tack and Seal coat. For Bitumen of specified grade-- 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)	MORTH 511	Square Metre	108	4
168	Road Surfacing Course	4.12	MORTH 511	Open Graded Premix Surfacing- 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 excluding prime / tack and Seal coat. For Bitumen of specified grade-- 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)	MORTH 511	Square Metre	112	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.
169	Road Surfacing Course	4.13	MORTH 513	9 MM SEAL COAT: Providing and laying of Type A 9mm premix seal coat with HMP 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	62	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.
170	Rigid Pavement	5.01	MORTH 602	Providing and laying in-situ M30 Grade unreinforced plain cement concrete pavement 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 batching and mixing plant/ non tilting mixer and Weigh batcher as per approved mix design, admixtures, transporting to site, spreading, laying with approved make paver , 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	5597	151
171	Rigid Pavement	5.02	MORTH 602	Providing and laying in-situ M35 Grade unreinforced plain cement concrete pavement 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 batching and mixing plant/ non tilting mixer and Weigh batcher as per approved mix design, admixtures, transporting to site, spreading, laying with approved make paver , 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	5679	147

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
172	Rigid Pavement	5.03	MORTH 602	Providing and laying in-situ M40 Grade unreinforced plain cement concrete pavement 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 batching and mixing plant/ non tilting mixer and Weigh batcher as per approved mix design, admixtures, transporting to site, spreading, laying with approved make paver , 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	5746	147
173	Rigid Pavement	5.04	MORTH 602	Providing and laying in-situ M30 Grade unreinforced plain cement concrete pavement 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 Tilting type Concrete Mixer 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	5640	722

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
174	Rigid Pavement	5.05	MORTH 602	Providing and laying in-situ M35 Grade unreinforced plain cement concrete pavement 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 Tilting type Concrete Mixer 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	5726	722
175	Rigid Pavement	5.06	MORTH 602	Providing and laying in-situ M40 Grade unreinforced plain cement concrete pavement 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 Tilting type Concrete Mixer 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	5795	722

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
176	Rigid Pavement	5.07	MORTH 602	Providing and laying in-situ M30 Grade unreinforced plain cement concrete pavement with max 20% fly Ash (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 batching and mixing plant/ non tilting mixer and Weigh batcher as per approved mix design, admixtures, transporting to site, spreading, laying with approved make paver , 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	5352	151
177	Rigid Pavement	5.08	MORTH 602	Providing and laying in-situ M35 Grade unreinforced plain cement concrete pavement with max 20% fly Ash (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 batching and mixing plant/ non tilting mixer and Weigh batcher as per approved mix design, admixtures, transporting to site, spreading, laying with approved make paver , 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	5426	147

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
178	Rigid Pavement	5.09	MORTH 602	Providing and laying in-situ M40 Grade unreinforced plain cement concrete pavement with max 20% fly Ash (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 batching and mixing plant/ non tilting mixer and Weigh batcher as per approved mix design, admixtures, transporting to site, spreading, laying with approved make paver , 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	5487	147
179	Rigid Pavement	5.10	MORTH 602	Providing and laying in-situ M30 Grade unreinforced plain cement concrete pavement with max 20% fly Ash (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 Tilting type Concrete Mixer 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	5412	741

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
180	Rigid Pavement	5.11	MORTH 602	Providing and laying in-situ M35 Grade unreinforced plain cement concrete pavement with max 20% fly Ash (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 Tilting type Concrete Mixer 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	5490	741
181	Rigid Pavement	5.12	MORTH 602	Providing and laying in-situ M40 Grade unreinforced plain cement concrete pavement with max 20% fly Ash (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 Tilting type Concrete Mixer 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	5551	741

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
182	Rigid Pavement	5.13	MORTH 601	Construction of dry lean cement concrete Sub- base 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	2805	38
183	Rigid Pavement	5.14	As directed by Engineer Incharge	Providing and fixing in position TMT FE 500, 32 mm dia 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	381	113
184	Rigid Pavement	5.15	As directed by Engineer Incharge	Providing and fixing in position TMT FE 500, 25mm dia 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	298	113
185	Rigid Pavement	5.16	As directed by Engineer Incharge	Providing and fixing in position TMT FE 500, tie bars 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	200	113

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
186	Rigid Pavement	5.17	As directed by Engineer Incharge	Cutting transverse contraction joints 3 to 4 mm wide and depth 60mm. .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	65	14
187	Rigid Pavement	5.18	As directed by Engineer Incharge	Providing to contraction joints 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 (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. (A) Contraction and longitudinal joints (15 mm. deep x 8 mm.wide)	RD	Running Metre	135	21
188	Rigid Pavement	5.19	As directed by Engineer Incharge	Providing and laying 125 micron Low Density Polyethylene (LDPE) sheet confirming to IS 3395 : 1997 below concrete pavement including all materials and labour complete.	RD	Square Metre	19	6
189	Rigid Pavement	5.20	As directed by Engineer Incharge	Providing and fixing factory made Hydraulically pressed Mechanically vibrated and compacted precast inter locking cement concrete paving blocks 80MM thick in M-40 grade 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 blinding of fine sand over the prepared bed, compacting blocks by plate vibrator etc. complete.	IRC-SP-63	Square Metre	883	72

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
190	Rigid Pavement	5.21	As directed by Engineer Incharge	Providing and fixing factory made Hydraulically pressed Mechanically vibrated and compacted precast inter locking cement concrete paving blocks 100MM thick in M-40 grade 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 blindge of fine sand over the prepared bed, compacting blocks by plate vibrator etc. complete.	IRC-SP-63	Square Metre	820	85
191	Rigid Pavement	5.22	As directed by Engineer Incharge	Providing and laying in situ cement concrete M -30 with tremix treatment for 200 mm thickness 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	6212	1463

Sr. No.	Chapter	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	390	118
193	Road Furniture	b	MORTH 807	Fixing In Ground	MORTH 807	Number	186	82
194	Road Furniture	c	MORTH 807	Fixing in M-15 R.C.C. 1:4:8	MORTH 807	Number	748	265
	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	689	238
196	Road Furniture	b	MORTH 805	Fixing 1:2:4 ordinary km. stones in C.C. 1:4:8	MORTH 805	Number	2062	644
197	Road Furniture	c	MORTH 805	Fixing R.C.C. 5th Km. stones, in c.c. 1:4:8	MORTH 805	Number	3513	1154
	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	551	408
199	Road Furniture	b	MORTH 202	Ordinary Km. Stone	MORTH 805	Number	328	239
200	Road Furniture	c	MORTH 202	Hectometer Stone	MORTH 805	Number	66	28
	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	110	76
202	Road Furniture	b	MORTH 805.1	Ordinary Kilometer Stone	MORTH 805.1	Number	401	238
203	Road Furniture	c	MORTH 805.1	Lettering of Fifth Km. Stone	MORTH 805.1	Number	456	192

Sr. No.	Chapter	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	41	14
205	Road Furniture	e	MORTH 801	Lettering for cautionary/ mandatory sign boards and village name boards	MORTH 801	Number	159	95
206	Road Furniture	f	MORTH 801	Lettering for informatory sign boards etc. complete.	MORTH 801	Number	198	119
207	Road Furniture	g	MORTH 801	Lettering on masonry works with nalla flow direction, span number and location etc. complete.	MORTH 801	Number	24	12
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	19	14
209	Road Furniture	6.06	MORTH 801	Painting and numbering trees with white background and black lettering etc. complete.	MORTH 801	Number	23	18
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	37	26
	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	279	103
212	Road Furniture	b	MORTH 801	Upto 10 cm Wide On Old Surface	MORTH 803	Square Meter	256	83
213		c	MORTH 801	Over 10cm Wide On Old Surface	MORTH 803	Square Meter	185	75
214	Road Furniture	d	MORTH 801	Upto 10 cm Wide On Old Surface	MORTH 803	Square Meter	195	83

Sr. No.	Chapter	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	435	86

Sr. No.	Chapter	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	653	21
217	Road Furniture	6.11	MORTH 804	Providing and fixing reflective fluorescent tape on old road sign board including cleaning / scraping and painting existing board etc. complete	MORTH 804	Square Meter	5401	1405
218	Road Furniture	6.12	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	566	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.
219	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	7375	278

Sr. No.	Chapter	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	6.14	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	2689	348
221	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	990	16

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
222	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	1091	16
223	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	3782	116
224	Road Furniture	6.18	MORTH 806	Supplying precast conventional reflective delinators on four sides for road signs	MORTH 806	Number	498	103

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
225	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	778	125
226	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	1556	184
227	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 ² 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	601	105
228	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	1149	159
229	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	1082	198

Sr. No.	Chapter	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				
230	Road Furniture	a		Post of size 65 mm x 65 mm x 6 mm	MORTH 801	Running Metre	615	126
231	Road Furniture	b	MORTH 801	Post of size 50 mm x 50 mm x 5 mm	MORTH 801	Running Metre	409	126
232	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	307	126
	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), excavation 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.				
233	Road Furniture	a	MORTH 805	In Strata other than B.C. Soil	MORTH 805	Number	8855	3357
234	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	12429	3544

Sr. No.	Chapter	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.				
235	Road Furniture	a	MORTH 801	600 mm dia made out of 1.5mm aluminum sheet	MORTH 801	Number	3358	300
236	Road Furniture	b	MORTH 801	750 mm dia made out of 2mm aluminum sheet	MORTH 801	Number	4286	300
237	Road Furniture	c	MORTH 801	900 mm dia made out of 2mm aluminum sheet	MORTH 801	Number	5332	277
238	Road Furniture	d	MORTH 801	1200 mm dia made out of 2mm aluminum sheet	MORTH 801	Number	8105	277
239	Road Furniture	e	MORTH 801	600 mm dia made out of 3mm aluminum composite material	MORTH 801	Number	3364	120
240	Road Furniture	b	MORTH 801	750 mm dia made out of 4mm aluminum composite material	MORTH 801	Number	4334	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.
241	Road Furniture	c	MORTH 801	900 mm dia made out of 4mm aluminum composite material	MORTH 801	Number	5402	277
242	Road Furniture	d	MORTH 801	1200 mm dia made out of 4mm aluminum composite material	MORTH 801	Number	8227	277
	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.				
243	Road Furniture	a	MORTH 801	600 mm dia made out of 1.5mm aluminum sheet	MORTH 801	Number	4002	453
244	Road Furniture	b	MORTH 801	600 mm dia made out of 3mm aluminum composite material	MORTH 801	Number	4007	794
245	Road Furniture	c	MORTH 801	750 mm dia made out of 2mm aluminum sheet	MORTH 801	Number	5329	453
246	Road Furniture	d	MORTH 801	750 mm dia made out of 4mm aluminum composite material	MORTH 801	Number	5376	794

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
247	Road Furniture	e	MORTH 801	900 mm dia made out of 2mm aluminum sheet	MORTH 801	Number	6904	432
248	Road Furniture	f	MORTH 801	900 mm dia made out of 4mm aluminum composite material	MORTH 801	Number	6972	772
249	Road Furniture	g	MORTH 801	1200 mm dia made out of 2mm aluminum sheet	MORTH 801	Number	11121	432
250	Road Furniture	h	MORTH 801	1200 mm dia made out of 4mm aluminum composite material	MORTH 801	Number	11241	772
	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.				
251	Road Furniture	a	MORTH 801	600 mm made out of 1.5mm aluminum sheet	MORTH 801	Number	2803	300
252	Road Furniture	b	MORTH 801	600 mm made out of 3mm aluminum composite material	MORTH 801	Number	2805	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.
253	Road Furniture	c	MORTH 801	750 mm made out of 2mm aluminum sheet	MORTH 801	Number	3153	300
254	Road Furniture	d	MORTH 801	750 mm made out of 4mm aluminum composite material	MORTH 801	Number	3176	300
255	Road Furniture	e	MORTH 801	900 mm out of 2mm aluminum sheet	MORTH 801	Number	3844	277
256	Road Furniture	f	MORTH 801	900 mm made out of 4mm aluminum composite material	MORTH 801	Number	3882	277
257	Road Furniture	g	MORTH 801	1200 mm made out of 2mm aluminum sheet	MORTH 801	Number	5311	277
258	Road Furniture	h	MORTH 801	1200 mm made out of 4mm aluminum composite material	MORTH 801	Number	5378	277
	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.				

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
259	Road Furniture	a	MORTH 801	600 mm made out of 1.5mm aluminum sheet	MORTH 801	Number	3153	623
260	Road Furniture	b	MORTH 801	600 mm made out of 3mm aluminum composite material	MORTH 801	Number	3156	964
261	Road Furniture	c	MORTH 801	750 mm made out of 2mm aluminum sheet	MORTH 801	Number	3634	623
262	Road Furniture	d	MORTH 801	750 mm made out of 4mm aluminum composite material	MORTH 801	Number	3657	964
263	Road Furniture	e	MORTH 801	900 mm made out of 2mm aluminum sheet	MORTH 801	Number	4661	602
264	Road Furniture	f	MORTH 801	900 mm made out of 4mm aluminum composite material	MORTH 801	Number	4699	942
265	Road Furniture	g	MORTH 801	1200 mm made out of 2mm aluminum sheet	MORTH 801	Number	6838	602
266	Road Furniture	h	MORTH 801	1200 mm made out of 4mm aluminum composite material	MORTH 801	Number	6906	942

Sr. No.	Chapter	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.				
267	Road Furniture	a	MORTH 801	750 mm made out of 2mm aluminum sheet	MORTH 801	Number	4924	300
268	Road Furniture	b	MORTH 801	750 mm made out of 4mm aluminum composite material	MORTH 801	Number	4985	300
269	Road Furniture	c	MORTH 801	900 mm out of 2mm aluminum sheet	MORTH 801	Number	6250	277
270	Road Furniture	d	MORTH 801	900 mm made out of 4mm aluminum composite material	MORTH 801	Number	6337	277

Sr. No.	Chapter	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 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 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.				
271	Road Furniture	a	MORTH 801	750 mm made out of 2mm aluminum sheet	MORTH 801	Number	6287	453
272	Road Furniture	b	MORTH 801	750 mm made out of 4mm aluminum composite material	MORTH 801	Number	6347	794
273	Road Furniture	c	MORTH 801	900 mm made out of 2mm aluminum sheet	MORTH 801	Number	8298	602
274	Road Furniture	d	MORTH 801	900 mm made out of 4mm aluminum composite material	MORTH 801	Number	8386	942

Sr. No.	Chapter	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 fixtures 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.				
275	Road Furniture	a	MORTH 801	2mm aluminum sheet Class B	MORTH 801	Square Meter	7399	277
276	Road Furniture	b	MORTH 801	4mm aluminum composite material Class B	MORTH 801	Square Meter	7507	97
277	Road Furniture	c	MORTH 801	2mm aluminum sheet of Class C	MORTH 801	Square Meter	10009	277
278	Road Furniture	d	MORTH 801	4mm aluminum composite material Class C	MORTH 801	Square Meter	10117	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.
	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 fixtures 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.				
279	Road Furniture	a	MORTH 801	2mm aluminum sheet Class B	MORTH 801	Square Meter	9303	335
280	Road Furniture	b	MORTH 801	4mm aluminum composite material of Class B	MORTH 801	Square Meter	9411	335
281	Road Furniture	c	MORTH 801	2mm aluminum sheet bonded of Class C	MORTH 801	Square Meter	11915	335
282	Road Furniture	d	MORTH 801	4mm aluminum composite material of Class C	MORTH 801	Square Meter	12022	335

Sr. No.	Chapter	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 retoreflective specified back ground, border and back side retoreflective 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.				
283	Road Furniture	a	MORTH 801	2mm aluminum sheet of Class B	MORTH 801	Square Meter	5334	127
284	Road Furniture	b	MORTH 801	4mm aluminum composite material of Class B	MORTH 801	Square Meter	5442	127
285	Road Furniture	c	MORTH 801	2mm aluminum sheet of Class C	MORTH 801	Square Meter	7945	127
286	Road Furniture	d	MORTH 801	4mm aluminum composite material Class C	MORTH 801	Square Meter	8053	127

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
287	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	7968	2359
288	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	1321	237

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
289	Road Furniture	6.38		<p>Providing and fixing cautionary / warning sign board of size 60 cm. having shape of equilateral triangle with apex point upwards. prepared on 16 gauge M.S. sheet 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,</p>	IRC-67 2015	Number	3642	678

Sr. No.	Chapter	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	6.39		Providing and fixing Mandatory / Regulatory sign board of circular shape of size 60 cm. dia. prepared on 16 gauge M.S. sheet 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 pealable crystal clear protective transparent coat retaining 100% relection 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 2015	Number	4550	678
291	Road Furniture	6.40		Providing and fixing sign boards of size 90cm having shape of an equilateral triangle made out of 14 gauge sheet 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 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. Mild Steel Board with Engineering Grade	IRC-67-1977	Number	4323	1151

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
292	Road Furniture	6.41		Providing and fixing road junction/information sign boards of size 1.80 x 0.90 Meter Prepared 16 guage M.S. sheet 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 chromate 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-67-1977	Number	14191	1717

Sr. No.	Chapter	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	6.42		Providing and fixing road junction/ information sign boards of size 1.80 x 0.90 Meter Prepared 16 guage Alluminium sheet 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-67-1977	Number	14773	1632
294	Road Furniture	6.43		Providing and fixing informatory sign boards in rectangular shape of size 1.80m x 0.90m made out of 3mm aluminum composite panel 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 2015	Number	16072	1525

Sr. No.	Chapter	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	6.44		Providing and fixing road junction/ information sign boards of size 1.80 x 1.20 Meter Prepared 16 guage M.S.sheet 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 peelable 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-67-1977	Number	15969	1780
296	Road Furniture	6.45		Providing and fixing road junction/ information sign boards of size 1.80 x 1.20 Meter Prepared 16 guage Alluminium sheet on frame of with angle iron frame of size40x40x5mm 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 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. Alluminium sheet Type IV High Intensity Micro-Prismatic Grade Sheeting.	IRC-67-1977	Number	17322	1683

Sr. No.	Chapter	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	6.46		Providing and fixing informatory sign boards in square or rectangular shape of size 1.80m x1.20m made out of 3mm Aluminum composite panel 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 2015	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.
298	Road Furniture	6.47		Providing and fixing Road junction / Information sign board of size 0.90 m x 0.60 m. prepared on 16 gauge M.S. sheet 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-67-1977	Number	6362	1050
299	Road Furniture	6.48		Providing and fixing informatory sign boards of size 0.90 x 0.60 m made out of 14 guage Aluminum sheet 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-67-1977	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.
300	Road Furniture	6.49		Providing and fixing informatory sign boards shape of size 0.90 x 0.60 m made out of 3mm Aluminum composite panel 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 2015	Number	8751	842
301	Road Furniture	6.50		Providing and fixing sign boards of size size 60 x 80 cm made out of 14 gauge M.S.Sheet 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-67-1977	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.
302	Road Furniture	6.51		Providing and fixing informatory sign boards of size 60 cm x 80 cm made out of 14 guage Aluminum sheet 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-67-1977	Number	6325	758
303	Road Furniture	6.52		Providing and fixing informatory sign boards of size 60 cm x 80 cm made out of 3mm Aluminum composite panel 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 2015	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.
304	Road Furniture	6.53		<p>Providing and fixing N.H./ S.H. Route Marker size 60 cm x 45 cm with one No. direction plate of size 30 cm x 25 cm prepared on 16 gauge M.S. sheet including painting with one coat of zinc chromate 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</p>	IRC-67-1977	Number	3256	619

Sr. No.	Chapter	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	6.54		Providing and fixing N.H./ S.H. Route Marker size 60 cm x 45 cm with one No. direction plate of size 30 cm x 25 cm prepared on 16 guage Aluminium sheet 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-67-1977	Number	3561	619

Sr. No.	Chapter	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	6.55		<p>Providing and fixing Road junction / Information sign board of size 1.20 m x 0.90 m. prepared on 16 gauge M.S. sheet 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 chromate 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.</p>	IRC-67-1977	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.
307	Road Furniture	6.56		Providing and fixing informatory sign boards in rectangular shape of size 1.20m x 0.90m made out of 16 guage Aluminum panel 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 2015	Number	11325	1350
308	Road Furniture	6.57		Providing and fixing informatory sign boards in rectangular shape of size 1.20m x 0.90m made out of 3mm Aluminum composite panel 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 2015	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.
309	Road Furniture	6.58		Providing and fixing informatory sign boards in square or rectangular shape of any size for overhead gantries or alike made out of 3mm aluminum composite panel 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 2015	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.
310	Road Miscellaneous items	7.01	MORTH 408	Providing and casting in situ or precast tapering R.C.C. M-20 Barrier type Kerb without gutter (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	404	123
311	Road Miscellaneous items	7.02	MORTH 408	Providing and casting in situ or precast tapering R.C.C. M-20 Semi Barrier type Kerb without gutter (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	376	118
312	Road Miscellaneous items	7.03	MORTH 408	Providing and casting in situ or precast tapering R.C.C. M-20 Mountable type Kerb without gutter (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	353	114
313	Road Miscellaneous items	7.04	MORTH 408	Providing and casting in situ or precast tapering R.C.C. M-20 Barrier type Kerb with gutter (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	669	152

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
314	Road Miscellaneous items	7.05	MORTH 408	Providing and casting in situ or precast tapering R.C.C. M-20 Semi Barrier type Kerb with gutter (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	627	135
315	Road Miscellaneous items	7.06	MORTH 408	Providing and casting in situ or precast tapering R.C.C. M-20 Mountable type Kerb with gutter (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	604	125
316	Road Miscellaneous items	7.07	As directed by Engineer Incharge	Providing and fixing in position Guard Railing as per Drg. No. 15 Type C dt. 20-4-79, with 3 rows of 50mm dia. G.I. pipe 30cm a part and fixed in M.S. channels of section 125 x 65 x 6 mm 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	2153	121
317	Road Miscellaneous items	7.08	As directed by Engineer Incharge	Providing and fixing in position Guard Railing as per Drg. No. 15 Type C dt. 20-4-79, with 3 rows of 40mm dia. G.I. pipe 30cm a part and fixed in M.S. channels of section 100 x 50 x 6 mm 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	1830	100
318	Road Miscellaneous items	7.09	As directed by Engineer Incharge	Providing and fixing Guard Railing of 1000mm height as per Type D Drg. No. 15 dt. 20-4-79, and fixed in 40 x 40 x 6mm iron , 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	1572	130

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
319	Road Miscellaneous items	7.10	As directed by Engineer Incharge	Providing and fixing Guard Railing of 1000 mm height in 25mm M.S. square bars 100 mm C/c. 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	1977	176
320	Road Miscellaneous items	7.11	MORTH	Design of overlay for existing B.T. surface 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
321	Road Miscellaneous items	7.12	MORTH	Carrying out roughness index / road unevenness test 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. i) Road surface single lane (B.TW,B.M.) 3.75 m Width.	As Directed by Engineer In Charge	Kilometre	578	NA
322	Road Miscellaneous items	7.13	MORTH	Carrying out roughness index / road unevenness test 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. i) Road surface single lane (B.TW,B.M.) 5.5 m to 7.00 m. Width.	As Directed by Engineer In Charge	Kilometre	1148	NA
323	Road Miscellaneous items	7.14	MORTH	Carrying out roughness index / road unevenness test 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. i) Road surface single lane (B.TW,B.M.) Each additional lane Width.	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.
324	Road Miscellaneous items	7.15	MORTH	Dead Journey charges for Transportation of machine/ vehical for Carrying out roughness index / road unevenness test 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
325	Road Miscellaneous items	7.16	MORTH 702	Providing and laying a woven Polypropylene Geotextile of Type-I manufactured from black UV stabilised Polypropylene Tape yarn on the prepared subgrade as the separator cum reinforcement with necessary overlap as per drawing. (For use this item SE/CE permission is obligatory.)	MORTH 702	Square Metre	128	57
326	Road Miscellaneous items	7.17	MORTH 702	Providing and laying a woven Polypropylene Geotextile of Type-II manufactured from black UV stabilised Polypropylene Tape yarn on the prepared subgrade as the separator cum reinforcement with necessary overlap as per drawing. (For use this item SE/CE permission is obligatory.)	MORTH 702	Square Metre	128	57
327	Road Miscellaneous items	7.18	MORTH 702	Providing and laying a woven Polypropylene Geotextile of Type-III manufactured from black UV stabilised Polypropylene Tape yarn on the prepared subgrade as the separator cum reinforcement with necessary overlap as per drawing. (For use this item SE/CE permission is obligatory.)	MORTH 702	Square Metre	128	57
328	Road Miscellaneous items	7.19	MORTH 702	Providing and laying a fibre glass geogrid of Tensile strength 50 kN/m 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	132	53
329	Road Miscellaneous items	7.20	MORTH 702	Providing and laying a fibre glass geogrid of Tensile strength 100 kN/m 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	214	68

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
330	Road Miscellaneous items	7.21	As directed by Engineer Incharge	Providing and Constructing gabion structure 1 Meter high 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	2728	404
331	Road Miscellaneous items	7.22	As directed by Engineer Incharge	Providing and Constructing gabion structure 0.50 Meter high 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	2721	478
332	Road Miscellaneous items	7.23	MORTH 702	Providing and laying Needle Punched and mechanically bonded non woven Geotextile of Type III indigenously manufactured from high quality Propylene staple fibers (continuous filament will not be accepted) on the prepared subgrade for Seperation.(For use this item SE/CE permission is obligatory.)	MORTH 702	Square Metre	125	56
333	Road Miscellaneous items	7.24	MORTH 703	Providing and laying Needle Punched and mechanically bonded non woven Geotextile of Type II indigenously manufactured from high quality Propylene staple fibers (continuous filament will not be accepted) on the prepared subgrade for Seperation.(For use this item SE/CE permission is obligatory.)	MORTH 702	Square Metre	125	56
334	Road Miscellaneous items	7.25	MORTH 202	Removal of telephone / Electric poles 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	268	249

Sr. No.	Chapter	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	7.29	MORTH 409	Footpaths and Separators -- 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	741	64
336	Road Miscellaneous items	7.30	MORTH 810	Metal Beam Crash Barrier -- Type - A, W : 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	2904	189
337	Road Miscellaneous items	7.31	MORTH 810	Metal Beam Crash Barrier -- Type - B, THRIE : 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	4504	189

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
338	Road Miscellaneous items	7.32	MORTH 811	Flexible Crash Barrier, Wire Rope Safety Barrier (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	1928	114
339	Road Miscellaneous items	7.33	MORTH 811	Anti - Glare Screen with 25 mm steel pipe framework 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	1437	57
340	Road Miscellaneous items	7.34	MORTH 811	Anti - Glare Screen with Rectangular Vane of MS sheet (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	869	76

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
341	Road Miscellaneous items	7.35	MORTH 809	Providing Reinforced cement concrete crash barrier at the edges of the road, approaches to bridge structures and medians, constructed with R.C.C. M 20 Grade 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	2939	86
342	Road Miscellaneous items	7.36	MORTH 809	Providing Reinforced cement concrete crash barrier at the edges of the road, approaches to bridge structures and medians, constructed with R.C.C. M 25 Grade 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	3054	86
343	Road Miscellaneous items	7.37	MORTH 809	Providing Reinforced cement concrete crash barrier at the edges of the road, approaches to bridge structures and medians, constructed with R.C.C. M 30 Grade 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	3069	86

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
344	Road Maintenance	8.01	RD	Labour for filling pot holes with premix asphalt 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	53	52
345	Road Maintenance	8.02	RD	Labour for metal patch repairs 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	66	45
346	Road Maintenance	8.03	MORTH 3002	Restoration of rain cuts 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	138	93
347	Road Maintenance	8.04	MORTH 3003	Making up loss of material/irregularities on shoulders 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	39	13
348	Road Maintenance	8.05	MORTH 3003	Stripping excess soil from the shoulder surface 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	16	12
349	Road Maintenance	8.06	MORTH 3004.2	Repair to pot holes 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 with 75mm B.M, applying bitumen tack coat at the bottom and vertical sides as per as per MORTH specification clause 3004.1 and 3004.2	MORTH 3004.2	Cubic Metre	5696	101
350	Road Maintenance	8.07	RD	Patch repair on already filled pot holes with 20 mm premix carpet and seal coat as per MORTH specification clause 3004.1 and 3004.2	As Directed by Engineer In Charge	Square Metre	199	6
351	Road Maintenance	8.08	MORTH 3004.2	Repair to pot holes 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	276	46

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
352	Road Maintenance	8.09	RD	Maintenance of gravel road 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	71	12
353	Road Maintenance	8.10	RD	Providing pick and roll surface by picking the old WBM surface 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	83	11
354	Road Maintenance	8.11	RD	Maintenance of WBM road 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	167	39
355	Road Maintenance	8.12	RD	The maintenance of drains 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	13	13
356	Road Maintenance	8.13	RD	Maintenance of Hume pipe Culvert 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	1868	876
357	Road Maintenance	8.14	RD	Maintenance of road signs 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	3576	2242
358	Road Maintenance	8.15	RD	Maintenance of Kilometer stones, and 200 metre 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	799	541
359	Road Maintenance	8.16	RD	Cutting of branches of trees and shrubs 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	190	133
360	Road Maintenance	8.17	RD	Trimming of grass, shurbs and weeds from the shoulders/berms and disposing off the same to suitable locations etc. complete	As Directed by Engineer In Charge	Square Metre	6	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.
361	Road Maintenance	8.18	RD	Maintenance of guard stones/ boundry stones/ indicator stones 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	745	312
362	Road Maintenance	8.19	RD	Repair of steel railing to bring it to original shape cleaning and repainting as per drawing etc. complete	As Directed by Engineer In Charge	Running Metre	297	171
363	Road Maintenance	8.20	RD	Repair of RCC railing to bring it to the original shape, cleaning and repainting as per drawings etc. complete	As Directed by Engineer In Charge	Running Metre	510	244
364	Road Maintenance	8.21	RD	Removal of steel railing and refixing of railing to submersible bridges including cleaning and repainting etc complete	As Directed by Engineer In Charge	Running Metre	369	281
365	Road Maintenance	8.22	RD	White washing two coats on parapet walls 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	11
366	Road Maintenance	8.23	RD	Dressing of side shoulder / Scrapping the road side shoulder by Mechanical means (By JCB /DOUZER) 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
367	Road Maintenance	8.24	MORTH	Providing and Laying Pressure Sensitive Technology (PST) based Insstapattch ready mix compound 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.
368	Road Maintenance	8.25	MORTH 514	Providing, laying and rolling Micro seal surfacing (10 mm thick) 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 passing 100 % through 6.30 mm sieve and retained100 % on 0.075 mm size sieve 0.2 Kg / Sqm lime and 11.00 kg / 10 Sqm 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	97	30
369	Road Maintenance	8.26	MORTH 514	Providing, laying and rolling Micro seal surfacing (10 mm thick) 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 passing 100 % through 9.50 mm sieve and retained100 % on 0.075 mm size sieve 0.2 Kg / Sqm lime and 9.50 kg / 10 Sqm 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	93	3
370	Road Maintenance	8.27	MORTH 408	Providing and laying shoulder drain of trap rubble 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	236	35

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
371	Road Maintenance	8.28	As Directed by Engineer In Charge	Providing and laying Pressure Sensitive Technology (PST) based ready mix compound 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.
372	Road Maintenance	8.29	As Directed by Engineer In Charge	Supply of self watering system Multi Stage Tree guard / Protctor 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 65% perforated tubular section at top for increase the water holding capacity as per plant height). The specially designed rubber water holding device of size 90mm dia outside & 12mm dia innerside of 1.5mm thick as per design fix on 40mm dia. 100mm long pvc pipe seperately.(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.
373	Road Maintenance	8.30	As Directed by Engineer In Charge	Supply of self watering system tree guard 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
374	Road Maintenance	8.31	As Directed by Engineer In Charge	Fixing and Transporting of self watering system tree guard-insertion 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
375	Road Maintenance	8.32	Rd.43.3.1	Providing 50 mm thick Full grout 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	440	87

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
376	Road Maintenance	8.33	Rd.45.3.1	Providing 50 mm thick semi grout bituminous treatment including supplying all materials , preparing the existing 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	354	87
377	Road Maintenance	8.34	MORTH 505	Providing and constructing 75 mm. thick Modified Penetration Macadam (MPM) 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. (For Repair works only)	As Directed by Engineer In Charge	Square meter	207	4
378	Road Maintenance	8.35	MORTH 505	Providing and constructing 50 mm. thick Modified Penetration Macadam (MPM) 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.(for repair works only)	As Directed by Engineer In Charge	Square meter	165	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.
SSR 2018-19 CD WORKS & BRIDGE WORKS								
379	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	977	317
380	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	4419	1102
381	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	4151	1102
382	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	1653	704
383	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	3753	1554
384	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	1538	309
385	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	2165	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.
386	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	3367	309
387	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	3960	309
388	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	4503	309
389	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	6318	309
390	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	3927	521
391	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	6248	521
392	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	6882	521
393	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	7633	521

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
394	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	9817	521
395	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	7474	521
396	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	9365	521
397	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	10872	521
398	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	5643	2268
399	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	472	161
400	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	4861	1094

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
401	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	784	139
402	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	5643	2268
403	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	6631	2268
404	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	6181	2268
405	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	6448	2268

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
406	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	173.00	83.00
				a) Upto 1.50m lift Normal Rate				
				b) 1.50m to 3.00m lift, Add 10%				
				c) 3.00m to 4.50m lift, Add 20%				
				d) 4.50m to 6.0m lift, Add 30%				
407	Bridge Foundation and Sub Structure	12.04	BR 3B	Excavation for foundation in hard murum & boulders including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete.	BR.3 Page No. 102	Cubic Metre	185.00	83.00
				a) Upto 1.50m lift Normal Rate				
				b) 1.50m to 3.00m lift, Add 10%				
				c) 3.00m to 4.50m lift, Add 20%				
				d) 4.50m to 6.0m lift, Add 30%				
408	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	218.00	110.00
				a) Upto 1.50m lift Normal Rate				
				b) 1.50m to 3.00m lift, Add 10%				
				c) 3.00m to 4.50m lift, Add 20%				
				d) 4.50m to 6.0m lift, Add 30%				
409	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	444.00	165.00
				a) Upto 1.50m lift Normal Rate				
				b) 1.50m to 3.00m lift, Add 10%				

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				c) 3.00m to 4.50m lift, Add 20%				
				d) 4.50m to 6.0m lift, Add 30%				
410	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	871.00	259.00
				a) Upto 1.50m lift Normal Rate				
				b) 1.50m to 3.00m lift, Add 10%				
				c) 3.00m to 4.50m lift, Add 20%				
				d) 4.50m to 6.0m lift, Add 30%				
411	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	944.00	285.00
				a) Upto 1.50m lift Normal Rate				
				b) 1.50m to 3.00m lift, Add 10%				
				c) 3.00m to 4.50m lift, Add 20%				
412	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	1312.00	1259.00
				a) Upto 1.50m lift Normal Rate				
				b) 1.50m to 3.00m lift, Add 10%				
				c) 3.00m to 4.50m lift, Add 20%				
413	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	1291.00	1123.00

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.
				a) Upto 1.50m lift Normal Rate				
				b) 1.50m to 3.00m lift, Add 10%				
				c) 3.00m to 4.50m lift, Add 20%				
414	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	1324.00	327.00
415	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	138.00	97.00
416	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	158.00	97.00
417	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	178	97
418	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	4263	1168

Sr. No.	Chapter	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	12.27	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	3665	1523
420	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	57295	16197
421	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	4294	1197
422	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	50450	8363
423	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	4624	921
424	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	4758	921

Sr. No.	Chapter	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	12.36	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	4624	921
426	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	4758	921
427	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	60776	8110

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
428	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	102488	13234
429	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	139714	18041

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
430	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	181963	23496
431	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	234655	25301

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
432	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	306948	33095
433	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	2003	2003
434	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	4943	976
435	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	5395	1220
436	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	4946	1305

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
437	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	5369	1672
438	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	4705	984
439	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	5230	984
440	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	5364	984

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
441	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				
				For depth of water 1.0 m and height of island to be 1.25 m.	BR.7. P.No. 107	Number	63295	7035
				For depth of water 4.0 m and height of island 4.5 m.	BR.7. P.No. 107	Number	311312	64431
442	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				
				For depth of water 1.0 m and height of island to be 1.25 m.	BR.7. P.No. 107	Number	35604	3957
				For depth of water 4.0 m and height of island 4.5 m.	BR.7. P.No. 107	Number	175113	36315
443	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	680	82
444	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	1299	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.
445	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	1052	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.
446	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	1.90	0.37
447	Bridge Bearings	13.02	BR	Providing tar paper bearing including laying in proper position etc. complete.	As directed by Engineer in charge	Square Metre	75	24
448	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	277	3
449	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	277	3
450	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	256	9
451	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	1.10	0.04
452	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	253	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.
453	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	188	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.
454	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	62257	5921
455	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	918	547
456	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	1092	547
457	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	311	232
458	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	319	232
459	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	153428	7345
460	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	6426	2268

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
461	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	6905	2268
462	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	7039	2268

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
463	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	6426	2268
464	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	6905	2268

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
465	Bridge Super Structure	14.29	BR	<p>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)</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	7039	2268
466	Bridge Super Structure	14.31	MORTH C1-2604	<p>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.</p>	BR.43 Page No. 138	Cubic Metre	726	152
467	Bridge Super Structure	14.32	BR 43A	<p>Providing copper plate expansion joints as per detailed drawing No. 4/D-1 of 1972 D type etc. complete.</p>	BR.43 Page No. 138	Running Metre	3587	152
468	Bridge Super Structure	14.33	BR 43B	<p>Providing expansion joints with 25mm thick bituminous pad as per detailed drawings etc. complete.</p>	BR.43 Page No. 138	Square Metre	738	93

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
469	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	3732	753
470	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	619	88
471	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	4795	834
472	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	500	44
473	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	6727	2231
474	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	1429	675

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
475	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	2779	27
476	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	1625	215
477	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	801	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.
478	Bridge Super Structure	14.53	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 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 Page No.135 and B. 7, Page No.38	Cubic Metre	7173	2268
479	Bridge Super Structure	14.55	MORTH	<p>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.</p>	MORT and H 500, 2700	Square Metre	257	79
480	Bridge Super Structure	14.56	MORTH	<p>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.</p>	MORT and H 2700, 1500, 1600 and 1700	Running Metre	1558	154

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
481	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	1559	154
482	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	4542	664
483	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	8347	924
484	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	19341	3185
485	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	173	24

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
486	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	1691	23
487	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	432	8
488	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	32	23
489	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	1268	51
490	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	11190	70

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
491	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	4090	42
492	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	11471	58
493	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	1262	624
494	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	2022	447
495	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	4836	909
496	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	1262	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.
497	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	4724	797
498	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	1790	696
499	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	195	141
500	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	4795	1583
501	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	5530	1180
502	Bridge Super Structure	14.78	MORTH	Construction of dry rubble flooring at cross drainage works etc. complete.	MORT and H 2500	Cubic Metre	2575	1936
503	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	4239	2053
504	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	1342	704

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
505	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 form 4 mm galvansed 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	2034	147
506	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, wovan 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	3785	521
507	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	146	56
508	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	110	41
509	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 agregates of required specifications (Natural sand / VSI sand finely washed etc)	MORT and H ? 2700	Cubic Metre	9501	1136

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
510	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	6207	924
511	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	1000	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.
512	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	2188	511
513	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	657	165
514	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	2267	514
515	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	4596	554

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
516	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	2341	516
517	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	2217	165
518	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	2520	611
519	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	4223	2053

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
520	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	2645	663
521	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	4063	1877
522	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	3776	782
523	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	3862	797

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
524	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	3928	842
525	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	5377	1041
526	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	4086	904

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
527	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	5844	1216
528	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	6237	1370
529	Bridge : Bored Pile	15.38	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	2172	483

Sr. No.	Chapter	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	15.40	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	2284	528
531	Bridge : Bored Pile	15.42	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	2403	575
532	Bridge : Bored Pile	15.44	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	2527	625

Sr. No.	Chapter	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	15.46	BR	Providing and laying cast in situ / ready mix M30 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	2666	678
534	Bridge : Bored Pile	15.48	BR	Providing and laying cast in situ / ready mix M30 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	3770	782
535	Bridge : Bored Pile	15.50	BR	Providing and laying cast in situ / ready mix M30 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	3924	842

Sr. No.	Chapter	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	15.52	BR	Providing and laying cast in situ / ready mix M30 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)	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	4087	904
537	Bridge : Bored Pile	15.54	BR	Providing and laying cast in situ / ready mix M30 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	5844	1216
538	Bridge : Bored Pile	15.56	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	6237	1370

Sr. No.	Chapter	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	15.58	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 agreeegates of required specifications (Natural sand / VSI sand finely washed etc)	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	6440	1450
540	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 agreeegates of required specifications (Natural sand / VSI sand finely washed etc)	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	7094	1705
541	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 agreeegates of required specifications (Natural sand / VSI sand finely washed etc)	BR-21 Page 124, MORTH - 1100 and 1700	Running Metre	7799	1979

Sr. No.	Chapter	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	15.64	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	10425	1964
543	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	11000	2146
544	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	11603	2339

Sr. No.	Chapter	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	15.70	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	13648	2793
546	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	21345	4364
547	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	2205	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.
548	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	2407	482
549	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	2524	510
550	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	2665	555

Sr. No.	Chapter	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	15.114	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	2813	603
552	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	3962	711
553	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	4132	765

Sr. No.	Chapter	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	15.117	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	4309	822
555	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	6135	1105
556	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	6707	1359

Sr. No.	Chapter	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	15.120	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	6798	1318
558	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	7643	1550
559	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	8298	1799

Sr. No.	Chapter	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	15.123	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	10377	1965
561	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	10944	2146
562	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	11545	2339

Sr. No.	Chapter	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	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	13576	2793
564	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	21231	4364
565	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	72768	12495

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
566	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	1043	127
567	Bridge Maintenance	16.02	BR	Repairing of honey combed or spilling 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	584	46
568	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 sikalates or similar materials of relevant specification and scaffolding for height 8 to 10 meter)	As directed by Engineer in charge.	Square Metre	618	46
569	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	2772	827
570	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	4045	117
571	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	2228	254

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
572	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. A) With Concrete Mixer (i) 550 mm dia	MORT&H (5th Rev.) 1111	Running Meter	900	900
573	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. A) With Concrete Mixer (ii) 650 mm dia	MORT&H (5th Rev.) 1111	Running Meter	1198	1198
574	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. A) With Concrete Mixer (iii) 900mm dia	MORT&H (5th Rev.) 1111	Running Meter	1501	1501
575	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. A) With Concrete Mixer iv) 1000 mm dia	MORT&H (5th Rev.) 1111	Running Meter	2368	2368

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
576	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	63296	8167
577	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	343931	64431
578	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 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	53147	8400

Sr. No.	Chapter	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 : Well Foundation	17.08	BR	<p>Sinking of 6 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).</p> <p>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.</p>	MORT&H (5th Rev.) 1208	Running Meter	78050	10637
580	Bridge : Well Foundation	17.09	BR	<p>Sinking of 7 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).</p> <p>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.</p>	MORT&H (5th Rev.) 1208	Running Meter	90856	13427

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
581	Bridge : Well Foundation	17.10	BR	<p>Sinking of 8 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).</p> <p>Note : Add</p> <p>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.</p>	MORT&H (5th Rev.) 1208	Running Meter	123553	16737
582	Bridge : Well Foundation	17.11	BR	<p>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).</p> <p>Note : Add</p> <p>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.</p>	MORT&H (5th Rev.) 1208	Running Meter	133943	18454

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
583	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	150893	21336
584	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	4130	110
585	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	5201	1183
586	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	5343	1183

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
587	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	5460	1183
588	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	5551	1183
589	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 compation 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	4964	1061
590	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 compation 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	5075	1061

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
591	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	5232	1061
592	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	5231	1160
593	Bridge : Well Foundation	17.22	BR	Providing and laying in situ / ready mix M-30 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	5365	1160
594	Bridge : Well Foundation	17.23	BR	Providing and laying in situ / ready mix M-25 cement concrete of trap / granite / quartzite/ gneiss metal for reinforced cement concrete well caps including necessary formwork compaction by vibrating finishing in CM 1:3 with fine aggregates 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	5481	1057

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
595	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 aggregates 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	5588	1057
596	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 aggregates 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	5695	1057
597	Bridge : Well Foundation	17.26	BR	Providing Sump pit in hard strata in wells as directed or as shown in drawing including shoring and strutting as necessary and disposing of excavated stuff	As directed by Engineer-in Charge	Cubic Meter	3331	2039
598	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	1306	176

Sr. No.	Chapter	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 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	5230	1271
600	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	5364	1271
601	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	5498	1271
602	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	5632	1271

Sr. No.	Chapter	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 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	4445	665
604	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	4587	665
605	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	4704	665
606	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	4795	665

Sr. No.	Chapter	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 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	383	53
608	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	351	54
609	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 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 (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	5066	1380

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
610	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	5334	1380

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
611	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 agreeegates 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	5492	1380

Sr. No.	Chapter	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 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	5629	1380

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
613	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	5763	1380

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
614	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. 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>	MORT&H (5th Rev.) 1700, 2204	Cubic Meter	5775	1380

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
615	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. 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>	MORT&H (5th Rev.) 1700, 2204	Cubic Meter	5936	1380

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
616	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. 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>	MORT&H (5th Rev.) 1700, 2204	Cubic Meter	6069	1380

Sr. No.	Chapter	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	17.46	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. 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>	MORT&H (5th Rev.) 1700, 2204	Cubic Meter	6205	1380

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
618	Bridge sub structure and Foundation	17.47	BR	<p>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 bailing out water and including CM 1:3 curing complete.</p> <p>a) Height upto 5 M. (With Concrete Mixer)</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 with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc)</p>	MORT&H (5th Rev.) 1700, 2204, 2304	Cubic Meter	5334	1380

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
619	Bridge sub structure and Foundation	17.48	BR	<p>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 bailing out water and including CM 1:3 curing complete.</p> <p>a) Height upto 5 M. (With Concrete Mixer)</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 with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc)</p>	MORT&H (5th Rev.) 1700, 2204, 2304	Cubic Meter	5495	1380
620	Bridge sub structure and Foundation	17.49	BR	<p>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 bailing out water and including CM 1:3 curing complete.</p> <p>a) Height upto 5 M. (With Concrete Mixer)</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, 2304	Cubic Meter	5629	1380

Sr. No.	Chapter	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	17.50	BR	<p>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 bailing out water and including CM 1:3 curing complete.</p> <p>a) Height upto 5 M. (With Concrete Mixer)</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 with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc)</p>	MORT&H (5th Rev.) 1700, 2204, 2304	Cubic Meter	5763	1380
622	Bridge sub structure and Foundation	17.51	BR	<p>Providing trap/granite/quartzite/gneiss rubble filling over haunches and arches including hand packing.</p> <p>Spec. No.: BR.34 Page No. 146</p>	MORT&H (5th Rev.) 1700, 1704	Cubic Meter	644	88
623	Bridge sub structure and Foundation	17.52	BR	<p>Providing and laying in situ / ready mix controlled M-20 cement concrete of of trap / granite / quartzite/ gneiss 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)</p> <p>With reversible drum type mixer/ concrete batch mix plant (pan mixer) . with fine aggregates of required specifications (Natural sand / VSI sand finely washed etc)</p>	MORT&H(5th Rev.) 1700, 2205, 2304	Cubic Meter	5839	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.
624	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 sacffolding 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	5966	1405
625	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 sacffolding 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	6100	1405
626	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 sacffolding 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	6234	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.
627	Bridge sub structure and Foundation	17.56	BR	<p>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.</p> <p>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.</p>	MORT&H (5th Rev.) 1814	Number	316128	20260
628	Bridge sub structure and Foundation	17.57	BR	<p>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.</p> <p>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.</p>	MORT&H (5th Rev.) 1814	Number	769664	59999

Sr. No.	Chapter	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 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 agreeegates of required specifications (Natural sand / VSI sand finely washed etc)	MORT&H (5th Rev.) 1700, 2205, 2304	Cubic Meter	4975	998
630	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	4989	998
631	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	5169	998
632	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	5369	998

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
633	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	5520	998
634	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	5627	998
635	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 agreeegates of required specifications (Natural sand / VSI sand finely washed etc)	MORT&H (5th Rev.) 1700, 2205, 2304	Cubic Meter	5734	998
636	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	66672	8291
637	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	529	529

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
638	Bored Pile, Well Foundation, sub & Super Structure	17.67		Supply of all types of Structural steel conforming to Fe 410 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
639	Bored Pile, Well Foundation, sub & Super Structure	17.68		Extra for working under running traffic / traffic block conditions for above Items.		M.T	20412	NA
640	Bored Pile, Well Foundation, sub & Super Structure	17.69		Metalizing of steel work of girder with grit blasting 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
641	Bored Pile, Well Foundation, sub & Super Structure	17.70		Providing sacrificial shuttering for deck slab 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
642	Bored Pile, Well Foundation, sub & Super Structure	17.71		Providing and removing barricading with the help of portable fencing along the running track 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

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
643	Bored Pile, Well Foundation, sub & Super Structure	17.72		Load testing of one or more spans of bridge 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 (for Span design load upto 100 MT.)		PER TEST	132784	96408
644	Bored Pile, Well Foundation, sub & Super Structure	17.73		Load testing of one or more spans of bridge 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 (Extra for every increase of 100.00mt. or part there for in the span load capacity up to 800.00 mt.)		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.
645	New Item (Arch Bridge)	18.01		Providing factory made hydraulically pressed mechanically vibrated and compacted Precast Ready Mix M-30 controlled cement concrete of trap /granite/quartzite/gneiss metal Blocks 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	2729	179
646	New Item (Arch Bridge)	18.02		Providing factory made hydraulically pressed mechanically vibrated and compacted Precast Ready Mix M-40 controlled cement concrete of trap /granite/quartzite/gneiss metal Blocks 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	2801	179

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
647	New Item (Arch Bridge)	18.03		Providing factory made hydraulically pressed mechanically vibrated and compacted Precast Ready Mix M-50 controlled cement concrete of trap /granite/quartzite/gneiss metal Blocks 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	2843	179
648	New Item (Arch Bridge)	18.04		Providing factory made hydraulically pressed mechanically vibrated and compacted Precast Ready Mix M-30 controlled cement concrete of trap /granite/quartzite/gneiss metal Socket Blocks 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	4331	197

Sr. No.	Chapter	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	New Item (Arch Bridge)	18.05		Providing factory made hydraulically pressed mechanically vibrated and compacted Precast Ready Mix M-40 controlled cement concrete of trap /granite/quartzite/gneiss metal Socket Blocks 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	4418	197
650	New Item (Arch Bridge)	18.06		Providing factory made hydraulically pressed mechanically vibrated and compacted Precast Ready Mix M-50 controlled cement concrete of trap /granite/quartzite/gneiss metal Socket Blocks 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	4479	197

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
651	New Item (Arch Bridge)	18.07		Providing and laying M-50 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 screed concrete 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 rods 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	4208	253
652	New Item (Arch Bridge)	18.08		Providing Lifting, transportation and placing 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 ISMC 300 steel supporting cross beam, two numbers of P type 10 ton capacity chain pulley , 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.	2922	166

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
SSR 2018-19 BUILDING WORKS								
653	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	143	82
654	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	178	103
655	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	157	90
656	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	196	113

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
657	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	174	99
658	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	215	123
659	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	298	204
660	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	363	252
661	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	756	319

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
662	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	873	395
663	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	997	329
664	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	1094	628
665	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	1032	628
666	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	74	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.
667	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	79	4
668	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	76	5
669	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	122	17
670	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 masonry 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	52	7
671	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 masonry 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	41	12

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
672	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	18	7
673	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	48	25
674	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	18	7
675	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	135	85
676	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	272	111
677	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	8.00	8.00
678	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	4.20	4.20
679	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	85	85
680	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	378	85

Sr. No.	Chapter	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	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	945	307
682	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	1812	85
683	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	969	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.
684	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	641	127
685	Pile Foundation: Building	22.02	Bd-B	Providing and laying cast in situ / Ready Mix Cement Concrete 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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	755	128
686	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	905	127

Sr. No.	Chapter	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	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	1130	127
688	Pile Foundation: Building	22.05	Bd-B	Providing 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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	1318	127
689	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	1530	127

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
690	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	635	127
691	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	748	127
692	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	905	127

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
693	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	1001	127
694	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	728	127
695	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	968	127

Sr. No.	Chapter	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	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	1349	127
697	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Running Metre	1812	127

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
698	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	756	127
699	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	1028	127

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
700	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	1459	127
701	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	1980	127

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
702	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	2822	127
703	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	3642	127

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
704	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	1962	961
705	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	2037	981

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
706	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	2192	1021
707	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 Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	2278	1043

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
708	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	2499	1093
709	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	2859	1261

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
710	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	3059	1288
711	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	3171	1318

Sr. No.	Chapter	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	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	3412	1380
713	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	3723	1413

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
714	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	3857	1448
715	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	4539	1601

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
716	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	4865	1685
717	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	5472	1928

Sr. No.	Chapter	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	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	6018	2069
719	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	6607	2222

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
720	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	6816	2276
721	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) 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	7244	3588
722	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	789

Sr. No.	Chapter	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	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	1051
724	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	1317
725	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	2077
726	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	80781	62895
727	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	96756	78869
728	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	131408	113522

Sr. No.	Chapter	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	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	163876	145989
730	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	196386	175069
731	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	227187	205870
732	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	282114	260797
733	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	433	433
734	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	499	499

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
735	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	987	987
736	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	1020	1020
737	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	1094	1094
738	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	529	529
739	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	61	21
740	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	70056	14994
741	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	72800	17738

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
742	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	5431	1544
743	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	5886	1544
744	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) complete. (Excluding steel reinforcement)	As directed by Engineer in charge	Cubic Metre	5727	1544

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
745	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	71014	11322
746	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	68103	10331
747	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	68325	10061
748	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	83516	24034

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
749	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	5329	2776
750	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	87003	26795
751	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	78880	16139
752	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	8	6
753	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	1470	189

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
754	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	82060	16139
755	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	88759	16139

Sr. No.	Chapter	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	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd. E. 1 Page No. 287	Cubic Metre	4257	1220
757	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.E.2 Page No. 288 and B.7 Page No 38	Cubic Metre	4757	1220

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
758	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.E.2 Page No. 288 and B.7 Page No 38	Cubic Metre	5028	1220
759	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.E.4 Page No. 289 and B-7, Page No.38	Cubic Metre	4757	1220

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
760	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.E.4 Page No. 289 and B-7, Page No.38	Cubic Metre	5028	1220
761	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, . With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.E.7 Page No 291 and B-7 Page No .38	Cubic Metre	9096	2609

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
762	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.E. 5/Page No. 290/I.S. 456 (2000)	Cubic Metre	4757	1220
763	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, With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.E. 5/Page No. 290/I.S. 456 (2000)	Cubic Metre	5028	1220

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
764	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.) With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.E. 3/Page No. 288/I.S. 456 (2000)	Cubic Metre	4757	1220

Sr. No.	Chapter	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	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.3 Page No. 298 and B.7, Page No.38	Cubic Metre	5255	1505
766	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.3 Page No. 298 and B.7, Page No.38	Cubic Metre	5553	1505

Sr. No.	Chapter	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	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.3 Page No. 298 and B.7, Page No.38	Cubic Metre	5553	1505
768	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.3 Page No. 298 and B.7, Page No.38	Cubic Metre	5621	1505

Sr. No.	Chapter	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	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.3 Page No. 298 and B.7, Page No.38	Cubic Metre	5796	1505
770	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. 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	10209	3821

Sr. No.	Chapter	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	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 compacting and 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	10371	3821
772	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.6 Page No. 300 and B.7, Page No.38	Cubic Metre	9010	3653
773	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, 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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.6 Page No. 300 and B.7, Page No.38	Cubic Metre	9308	3653

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
774	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, 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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.6 Page No. 300 and B.7, Page No.38	Cubic Metre	9416	3653
775	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, 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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.6 Page No. 300 and B.7, Page No.38	Cubic Metre	9497	3653
776	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, 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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.6 Page No. 300 and B.7, Page No.38	Cubic Metre	9551	3653

Sr. No.	Chapter	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	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.8 Page No. 302 and B.7, Page No.38	Cubic Metre	10086	4252
778	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, 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.8 Page No. 302 and B.7, Page No.38	Cubic Metre	10384	4252

Sr. No.	Chapter	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	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.8 Page No. 302 and B.7, Page No.38	Cubic Metre	10492	4252
780	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.8 Page No. 302 and B.7, Page No.38	Cubic Metre	10573	4252

Sr. No.	Chapter	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	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.8 Page No. 302 and B.7, Page No.38	Cubic Metre	10627	4252

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
782	Reinforced Cement Concrete	26.05	BDF 9	Providing and laying Cast in situ/Ready Mix cement 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 compacting , curing , finishing 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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.9 Page No. 303 and B.7, Page No.38	Cubic Metre	10113	4252
783	Reinforced Cement Concrete	26.07	BDF 9	Providing and laying Cast in situ/Ready Mix cement 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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.9 Page No. 303 and B.7, Page No.38	Cubic Metre	10249	4252
784	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.8 Page No. 303 and B.7, Page No.38	Cubic Metre	10113	4252

Sr. No.	Chapter	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	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)		Cubic Metre	10249	4252
786	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.11 Page No. 304 and B.7, Page No. 38	Cubic Metre	11414	5268
787	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.11 Page No. 304 and B.7, Page No. 38	Cubic Metre	11550	5268

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
788	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd. F. 12 Page No. 304 and B-7, Pg 38	Cubic Metre	5836	1566
789	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd. F. 13 Page No. 305 /I.S. 456 (2000)	Cubic Metre	10076	2387

Sr. No.	Chapter	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	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 enforcement, 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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd. F. 13 Page No. 305 /I.S. 456 (2000)	Cubic Metre	10313	2387
791	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd. F. 14 Page No. 305 /I.S. 456 (2001)	Cubic Metre	9285	3451

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
792	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd. F. 14 Page No. 305 /I.S. 456 (2002)	Cubic Metre	9366	3451
793	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd. F. 15 Page No. 306 /I.S. 456 (2003)	Cubic Metre	10990	3829

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
794	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) With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd. F. 15 Page No. 306 /I.S. 456 (2003)	Cubic Metre	10810	3877
795	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd. F. 16 Page No. 306 /I.S. 456 (2004)	Cubic Metre	10927	3613

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
796	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd. F. 16 Page No. 306 /I.S. 456 (2004)	Cubic Metre	11165	3613
797	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	63994	8291
798	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	66672	8291

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.		
799	Reinforced Cement Concrete	26.36	0	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	8285	4581		
800	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 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> <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>	Nominal Size of Bar, MM	No. of Samples	As directed by Engineer in Charge	Metric Tonne	16694	728
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.
801	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 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>	0	Metric Tonne	13302	728

Sr. No.	Chapter	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	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 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>	0	Metric Tonne	11467	728

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
803	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 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>	0	Metric Tonne	8933	728

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
804	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 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: For all types of bar : Minimum 1 for every diameter or as directed by engineer in chargecharge ☒</p>	0	Metric Tonne	7417	728
805	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>	0	Metric Tonne	6220	728

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
806	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: For all types of bar : Minimum 1 for every diameter or as directed by engineer in charge</p>	0	Metric Tonne	5123	728
807	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	699	112
808	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	977	112

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
809	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.6, Page No.300 / Bd.F.8, Page No.302 and B.7 Page No. 38.	Cubic Metre	10939	5078
810	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.6, Page No.300 / Bd.F.8, Page No.302 and B.7 Page No. 38.	Cubic Metre	11074	4322

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
811	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). With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.F.6, Page No.300 / Bd.F.8, Page No.302 and B.7 Page No. 38.	Cubic Metre	11210	5078
812	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.E.2 Page No. 288 and B.7 Page No 38	Cubic Metre	11275	5078

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
813	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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.E.4 Page No. 289 and B-7, Page No.38	Cubic Metre	11480	5078
814	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	367	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.
815	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	5144	1128
816	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	5267	1235
817	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	4973	957
818	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	5307	1211
819	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	686	144
820	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	644	126

Sr. No.	Chapter	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	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	5925	1921
822	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	6070	2066
823	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	5356	1396
824	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	5483	1523
825	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	5057	2177
826	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	5158	2221
827	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	686	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.
828	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	5663	1478
829	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	793	122

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
830	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	3652	1785
831	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	3728	1785
832	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	4334	1502
833	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	4014	2147
834	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	3706	1839
835	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	3914	2047
836	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	4282	2415

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
837	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	4529	2644
838	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	8534	2284
839	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	8963	2650
840	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	8887	2799
841	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	9492	3099
842	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	8886	4099

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
843	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.I.1 Page No. 349	Square Metre	889	396
844	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.I.1 Page No. 349	Square Metre	967	412
845	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 ² 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	5555	1022
846	Concrete Block Masonry	29.04	BDI	Providing and constructing masonry in Autoclaved Areaclaved (Celluar) 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	6274	1128
847	Concrete Block Masonry	29.05	BDI	Providing and constructing masonry in Autoclaved Areaclaved (Celluar) 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	6333	1187

Sr. No.	Chapter	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	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	788	144
849	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	913	401
850	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	988	458
851	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	1751	515

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
852	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	3100	807
853	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	3652	827
854	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	3777	815
855	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	3695	747
856	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	5565	1336
857	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	6001	1336
858	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	4782	529
859	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	4761	529

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
860	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	1827	183
861	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	1806	150
862	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	1218	132

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
863	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	320	70
864	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	88	11
865	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	28	10
866	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	839	429

Sr. No.	Chapter	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	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	374	149
868	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	279	169
869	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	384	193
870	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	19	19
871	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	791	225

Sr. No.	Chapter	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	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	1098	167
873	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	981	167
874	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	966	279

Sr. No.	Chapter	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	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	1003	362
876	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	968	278
877	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	421	79
878	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	654	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.
879	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	466	152
880	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	4557	2377

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
881	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	150	117
882	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	155	117
883	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	205	144
884	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	210	144
885	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	219	144
886	Plastering and Pointing	32.06	BDL 4	Providing internal cement plaster 20mm thick in two 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	378	279
887	Plastering and Pointing	32.07	BDL 4A	Providing internal cement plaster 20mm thick in two 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	387	279
888	Plastering and Pointing	32.08	BDL 4B	Providing internal cement plaster 20mm. thick in two 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	392	279
889	Plastering and Pointing	32.09	BDL 5	Providing internal cement plaster 25mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick or stone surfaces, in all positions including scaffolding and curing etc.complete.	Bd.L.5 Page No. 368	Square Metre	461	326

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
890	Plastering and Pointing	32.10	BDL 3	Providing internal cement plaster 20mm thick in single coat in cement mortar 1:3 without neeru finish to stone masonry surfaces, in all positions including scaffolding and curing etc. complete.	Bd.L.3 Page No. 368	Square Metre	359	238
891	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	608	420
892	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	477	357
893	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	486	357
894	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	41	40
895	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	125	110
896	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	133	110
897	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	130	110
898	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	131	110

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
899	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	125	110
900	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	69	58
901	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	35	35
902	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	27	20
903	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	40	31
904	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	55	42
905	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	95	33
906	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	108	56
907	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	238	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.
908	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 course 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	1291	478
909	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	435	137
910	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	474	137
911	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	472	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.
912	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	37	37
913	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	112	37
914	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	29	23
915	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.	Square Metre	29	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.
916	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	565	206
917	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	617	212
918	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	688	221
919	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	633	207
920	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	820	261
921	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	976	233
922	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	923	199

Sr. No.	Chapter	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	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	1056	199
924	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	392	219
925	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	350	219
926	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	397	219
927	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	380	219

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
928	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	426	219
929	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	335	150
930	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	368	150
931	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	379	150
932	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	847	407

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
933	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	1180	407
934	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 polishing and cleaning etc. complete.	Bd.M.29 Page No. 391	Square Metre	971	238
935	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	853	238
936	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, rounding edges, cleaning complete. a) Marble other than white makraDeleted	Spec.No.: Bd.M.31/Page No.392	Square Metre	1498	238
937	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, polishing, rounding edges, cleaning complete. b) Granite	Spec.No.: Bd.M.31/Page No.393	Square Metre	3295	238
938	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	944	271
939	Paving Flooring and dado	33.24	BDM 12	Providing and laying 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	972	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.
940	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	1023	309
941	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	1069	309
942	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	1069	309
943	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	114	26
944	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	52	26
945	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	614	136
946	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	1110	246
947	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	775	236

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
948	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	1296	637
949	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	3478	236
950	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 rounded 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	3478	236
951	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 rounding / moulding the edges etc. complete . Both side polish	Bd.M.35 B/Page No.393	Square Metre	3410	236
952	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 rounding / moulding the edges etc. complete. One side polish	Bd.M.35 B/Page No.393	Square Metre	3404	236
953	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	2225	280

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
954	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	482	118
955	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 flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete. a) Flooring	Bd.M. 12 Page No.385	Square Metre	1039	194
956	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 flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete.b) Skirting	Bd.M. 12 Page No.385	Square Metre	1091	250
957	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 flooring in required position laid on a bed of 1:4 cement morar including neat cement float, filling joints, curing and cleaning etc. complete. a) Flooring	Bd.M.12 Page No. 385	Square Metre	1598	194
958	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 flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete. b) Skirting	Bd.M.12 Page No. 385	Square Metre	1899	250
959	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 flooring in required position laid ?on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete. a) Flooring	Bd.M.12 Page No. 385	Square Metre	1656	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.
960	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 flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning. etc. complete. b) Skirting	Bd.M.12 Page No. 385	Square Metre	1708	309
961	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 flooring 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 a) Flooring	Bd.M. 12 Page No. 385	Square Metre	1656	252
962	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 flooring 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. b) Skirting	Bd.M. 12 Page No. 385	Square Metre	1708	309
963	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	2052	226
964	Paving Flooring and dado	33.49	BDM	Providing and fixing heavy duty inter locking concrete Gray 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	758	71
965	Paving Flooring and dado	33.50	BDM	Providing and fixing heavy duty inter locking concrete Gray 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	867	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.
966	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	798	71
967	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	979	71
968	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	727	112
969	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	1163	71
970	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	686	71
971	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	555	111

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
972	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	467	111
973	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	1064	111
974	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	1617	111
975	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	2015	111
976	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	1645	139

Sr. No.	Chapter	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	33.65	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 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	1645	139
978	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	579	140
979	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	991	252
980	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 the sharp edges wherever necessary, curing, etc. complete.	As directed by Engineer-In-Charge	Square Metre	3675	482
981	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	1190	341

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
982	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 strengthth 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	1434	252
983	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 strengthth 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	1587	309
984	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	88	106
985	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	57	53
986	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	92	159

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
987	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	1007	260

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
988	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	19	12
989	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	32	22
990	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	40	34
991	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	33	22
992	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	91	63
993	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	176	136
994	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	29	15
995	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	45	22
996	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	602	385
997	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	49	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.
998	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	77	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.
999	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	68	22
1000	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	35	11
1001	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	55	23
1002	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	68	25
1003	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	62	19
1004	Oil Painting	35.06	BDO 4A	Providing and applying 2 coats of alluminium 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	92	34
1005	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	72	34

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1006	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.0.6 Page No. 406	Square Metre	43	18
1007	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	63	33
1008	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	40	18
1009	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	66	31
1010	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.O.7 Page No. 406	Square Metre	76	31
1011	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	58	36
1012	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	57	36

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1013	Oil Painting	35.15	0	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	77	48
1014	Oil Painting	35.16	0	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	77	48
1015	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	12	12
1016	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	25	9
1017	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 En- gineer in charge.	Square Metre	26	13
1018	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	28	9
1019	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	15	11
1020	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	153	49

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1021	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	128	20
1022	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	208	122
1023	Oil Painting	35.26	BDO	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. NOTE: For Item No. 15 to 18 prior approval of Superintending Engineer will be necessary	As directed by Engineer in charge.	Square Metre	194	122
1024	Oil Painting	35.29	BDO	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.	As directed by Engineer in charge.	Square Metre	218	22

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1025	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	5.40	3.90
1026	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	8.40	5.30
1027	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	7.00	4.30
1028	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>	13.30	7.60
1029	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	6.00	3.50
1030	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	11.40	7.40
1031	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	14.60	4.30
1032	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	21.80	8.90
1033	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	23.40	9.30

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.
1034	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	35.40	12.80
1035	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	61.70	16.40
1036	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	77.60	19.40
1037	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	87.00	28.60
1038	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	2.10	2.10
1039	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	44	10
1040	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	25.50	22.70

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1041	Colouring	36.20	BDP	Providing and applying interior wall finish luster of Asian / Berger / Nerolac / Dulux Paints or equivalent 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	154.80	89.40
1042	Colouring	36.21	BDP	Providing and applying Royale Luxury Emulsion of Asian / Berger / Nerolac / Dulex Paints or equivalent 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	161.10	89.90

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1043	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	2537	111
1044	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	4995	107
1045	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	94079	1117
1046	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	48550	3761
1047	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	2156	168
1048	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	124355	26069
1049	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	68700	26069
1050	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	113018	11171
1051	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	56568	11171

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1052	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	942	335
1053	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	1549	112
1054	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	698	112
1055	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	978	240
1056	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	3027	1523
1057	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	2749	1523
1058	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	511	112
1059	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	345	121

Sr. No.	Chapter	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	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	269	67
1061	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	563	112
1062	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	328	112
1063	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	2916	120
1064	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	3042	150
1065	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	368	113
1066	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	247	28
1067	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	42	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.
1068	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 wallnut 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	3957	2040

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1069	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	780	106
1070	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	794	111
1071	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	203	113
1072	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	686	84
1073	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	951	101
1074	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	321	140
1075	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	477	149

Sr. No.	Chapter	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	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	2249	317
1077	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	1695	340
1078	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	2046	227
1079	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	504	54
1080	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	293	32
1081	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	1425	174
1082	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	929	567

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1083	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 galvenised 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	874	571
1084	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	801	231
1085	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	915	340
1086	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	1094	510

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1087	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	1570	560
1088	Roofing and Ceiling	38.20	BDR 17	Providing and fixing false ceiling of T.W. partial 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	1260	252
1089	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	1863	252
1090	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	87	38
1091	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	36	27
1092	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	68	67
1093	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	51	51
1094	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	63	63

Sr. No.	Chapter	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	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	550	550
1096	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	1712	1712
1097	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	94	14
1098	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	44	18
1099	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	1053	88
1100	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	98	77
1101	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	654	327
1102	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 ² , including fastening with self drilling screw having washers made of stainless steel etc. complete.	As directed by Engineer in charge.	Square Metre	1247	84
1103	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	1075	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.
1104	Roofing and Ceiling	38.39	BDR	Providing and fixing 15 mm thick eco-friendly densified edge calcium silicate false ceiling (like aeroltie) 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	As directed by Engineer in charge.	Square Metre	1795	290

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1105	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	As directed by Engineer in charge.	Square Metre	1997	290

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1106	Roofing and Ceiling	38.41	BDR	Providing and fixing self supporting steel roofing system (Proflex) 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	1247	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.
1107	Roofing and Ceiling	38.42	BDR	<p>Providing and fixing self supporting steel roofing system (Proflex) 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.</p>	As directed by Engineer in charge.	Square Metre	1244	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.
1108	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	1406	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.
1109	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 (tolerance + / - 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	1925	283
1110	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	1830	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.
1111	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 pre-coated 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	1576	170
1112	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 ?85%, 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	2234	147

Sr. No.	Chapter	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	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	1472	170
1114	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 precoated 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	1426	147

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1115	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 precoated 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	1252	147
1116	Roofing and Ceiling	38.51	BDR	Providing and fixing in position Gypsum board false ceiling with 12.5 mm thick Gypsum boards, screwed/fixd 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	1301	705

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1117	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	1878	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.
1118	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	151541	1655
1119	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	78574	96
1120	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	3696	1519
1121	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	7184	2029
1122	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	4450	1226

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1123	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	6174	1738
1124	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	5461	1834
1125	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 bottom 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	7145	1857
1126	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	2311	527

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1127	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	2144	605
1128	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	2787	608
1129	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	4126	622
1130	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	1974	396
1131	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	3641	512
1132	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	3526	1064

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1133	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	4085	1071
1134	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	5033	808
1135	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	5837	899
1136	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	3227	1029
1137	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	3403	686

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1138	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	2965	975
1139	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	4038	739
1140	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	3584	739

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1141	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	3538	602
1142	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	3893	640

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1143	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	2804	774
1144	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	1956	620
1145	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	706	306
1146	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	2361	573
1147	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	3384	1093
1148	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	2302	854
1149	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	139	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.
1150	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	2053	518
1151	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	1603	558
1152	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	1401	584
1153	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	1229	584

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1154	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. With colour Anodising with box.	As directed by Engineer in charge.	Square Metre	4831	1431
1155	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. With colour Anodising without box	As directed by Engineer in charge.	Square Metre	4551	1590

Sr. No.	Chapter	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	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. With powder coating with box	As directed by Engineer in charge.	Square Metre	4796	1272
1157	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. With powder coating without box	As directed by Engineer in charge.	Square Metre	4215	1202

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1158	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. With colour Anodising with box	As directed by Engineer in charge.	Square Metre	4889	1621
1159	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. With colour Anodising without box	As directed by Engineer in charge.	Square Metre	4657	1717

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1160	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 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. With powder coating with box	As directed by Engineer in charge.	Square Metre	4592	1431
1161	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 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. With powder coating without box	As directed by Engineer in charge.	Square Metre	4096	1192

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1162	Doors and Windows	39.45	BDT	Supplying and fixing in position Aluminium extruded section Four track sliding windows upto 1.2 metre height, outer frame made from section of over all size 80 mm x 45 mm, bottom section with or without drain section, track weighing 0.90 kg per metre and top and side section weighing 0.838 kg per running metre with shutter or sections made of 19 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 5.00 mm selected quality plain sheet glass fixed with new neoprene gasket shutters to be provided with nylon encased stainless rollers, necessary locks and handles complete.	As directed by Engineer in charge.	Square Metre	5090	1506
1163	Doors and Windows	39.47	BDT	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 gauge 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 metal primer of approved make and manufacture. M.S frame shall be covered with heat moulded 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 flat 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 flat 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	As directed by Engineer in charge.	Square Metre	5066	741

Sr. No.	Chapter	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	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 prelam 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	5738	741
1165	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	1400	319
1166	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	4027	1313
1167	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. 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	5489	1313

Sr. No.	Chapter	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	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. 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	3980	1050
1169	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. 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	3789	1313
1170	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	4494	1313
1171	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	4628	1050

Sr. No.	Chapter	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	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	709	293
1173	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	765	342
1174	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	2453	494
1175	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	2617	412
1176	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	1203	437
1177	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	1405	437
1178	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	866	371

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1179	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	6544	1437
1180	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	7383	2892

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1181	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	10479	5270
1182	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	2345	877
1183	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	2688	974
1184	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	4066	656
1185	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	2748	573

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1186	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	1624	189
1187	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, Novatekor 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	2680	738
1188	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, Novatekor 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	2862	874
1189	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	2714	648

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1190	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	954	540
1191	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	4429	1271
1192	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	2834	809
1193	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	As directed by Engineer in charge.	Square Metre	2805	788
1194	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	1849	772
1195	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	3835	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.
1196	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	4864	741
1197	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	5066	741

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1198	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	2570	387
1199	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 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	2324	352
1200	Doors and Windows	39.85	BDT	Providing and fixing partitions with 12 mm thick three layered 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	3282	415
1201	Doors and Windows	39.86	BDT	Providing and fixing partition with 12mm thick three layered flat pressed veneer teak wood particle 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 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-68 Page No. 520	Square Metre	2463	638
1202	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	108072	15561

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1203	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	726	167
1204	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	2068	167
1205	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	448	167
1206	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	1029	117
1207	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	142	28
1208	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	2121	750
1209	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	2770	662
1210	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	5789	973

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1211	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	1468	225
1212	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	1197	225
1213	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, fix-tures, 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	2303	204
1214	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	2056	204
1215	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	642	125
1216	Iron Work	40.06	BDW	Providing and fixing 40mm diameter and 1.5mm thick Stainless steel hand railing in S.S.304 Grade including fabricating , fixtures, errecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete	As directed by Engineer Incharge	Running Metre	2660	1298

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1217	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	3638	2277
1218	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	Running Metre	3638	2277
1219	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	2780	561
1220	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	2780	561

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1221	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	2959	561

Sr. No.	Chapter	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	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	1142	90
1223	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	1328	90
1224	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	2438	326
1225	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	719	299
1226	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	843	299
1227	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	966	299
1228	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	157	28
1229	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	157	28
1230	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	241	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.
1231	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	330	94
1232	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	397	125
1233	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	468	95
1234	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	510	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.
1235	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	569	96
1236	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 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.5Page No. 551	Running Metre	735	97
1237	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	1180	100
1238	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	1362	102

Sr. No.	Chapter	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	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	329	133
1240	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	391	164
1241	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	422	164
1242	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	452	164
1243	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	512	171

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1244	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	635	177
1245	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	886	180
1246	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	1112	197
1247	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	2810	278
1248	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	3854	278
1249	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	5453	278
1250	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	9058	834

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1251	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	11551	834
1252	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	19944	1112
1253	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	28316	1112
1254	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	540	74
1255	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	778	74
1256	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	1089	74
1257	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	374	74
1258	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	481	74
1259	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	662	74
1260	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	716	83
1261	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	818	83

Sr. No.	Chapter	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	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	1468	100
1263	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	1930	100
1264	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	3118	100
1265	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	386	74
1266	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	392	11
1267	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	444	111
1268	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	380	111
1269	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	447	111
1270	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 Corossive Paint)	Bd. V. 19 Page No. 559	Running Metre	754	416
1271	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	7240	889

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1272	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	3152	820
1273	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	7955	1154
1274	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	3669	820
1275	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	3669	820
1276	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	241	35
1277	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	4165	1376

Sr. No.	Chapter	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	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	4060	1112
1279	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	4462	556
1280	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	4265	1112
1281	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	3901	1112
1282	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 piller 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	4362	1304

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1283	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	4362	1304
1284	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	4527	1304
1285	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	4599	1112
1286	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	4186	1304
1287	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	3100	1304
1288	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	2230	278

Sr. No.	Chapter	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	41.78	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	8194	992
1290	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	631	222
1291	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	893	222

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1292	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	384	15
1293	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	1084	37
1294	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	257	18
1295	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	319	18
1296	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	349	18
1297	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	596	31
1298	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	626	33
1299	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	686	33
1300	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	973	35

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1301	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	10511	204
1302	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	11263	232
1303	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	6480	205
1304	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	7691	234
1305	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	11742	232

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1306	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	8091	232
1307	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	9232	2318
1308	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	11156	2764
1309	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	13039	479
1310	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	2078	136
1311	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	655	22
1312	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	64	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.
1313	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	89	4
1314	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	119	4
1315	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	163	4
1316	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	243	5
1317	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	318	6
1318	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	322	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.
1319	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	448	6
1320	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	830	25
1321	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	2972	292
1322	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	226	4
1323	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	701	9
1324	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	5588	218
1325	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	8662	262
1326	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	7644	251

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1327	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	896	10
1328	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	383	10
1329	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	342	38
1330	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	435	42
1331	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	459	42
1332	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	576	47
1333	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	693	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.
1334	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	1099	112
1335	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	1722	184
1336	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	1889	207
1337	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	2564	284
1338	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	41	5
1339	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	22	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.
1340	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	18	2
1341	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	15	2
1342	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	446	19
1343	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	608	19
1344	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	12	0
1345	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	10	0
1346	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	194	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.
1347	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	221	22
1348	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	263	22
1349	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	317	22
1350	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	390	22
1351	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	564	22
1352	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	198	22
1353	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	222	23

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1354	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	298	28
1355	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	351	28
1356	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	424	28
1357	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	594	28
1358	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	384	37
1359	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	4775	44
1360	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	3109	74
1361	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	3990	69
1362	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	2666	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.
1363	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	924	60
1364	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	1262	60
1365	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	1898	60
1366	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	2924	60
1367	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	4036	60
1368	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	6572	60
1369	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	13536	343
1370	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	2242	28
1371	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	1102	28
1372	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	3415	56

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1373	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	1102	28
1374	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	875	33
1375	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	1406	28
1376	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	1107	28
1377	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, cutting and making good walls, floors etc. complete.	As directed by Engineer Incharge	Number	10080	250

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1378	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	408	19
1379	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	8253	19

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1380	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	273	16
1381	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	306	21
1382	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	356	16
1383	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	427	16

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1384	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	474	16
1385	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	604	16
1386	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	948	17
1387	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	1024	17

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1388	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	350	22
1389	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	414	27
1390	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	473	27
1391	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	498	27
1392	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	563	28

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1393	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	708	30
1394	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	1080	30
1395	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	1455	33
1396	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	392	37
1397	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	417	37

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1398	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	8947	250
1399	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	8240	250
1400	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	8947	250

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1401	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)	Specifications	Number	5108	295
1402	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	5108	77
1403	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	1032	44
1404	Water Supply and Sanitary Fitting	43.25	BDV 23	Providing and fixing in position UPVC ultra violet stabilized 110 mm outer diameter cowl dome confirming to I.S.-4985 including making joints with solvent cement etc. complete	Specifications	Number	106	9
1405	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 providing T.W.gutties etc. complete	Specifications	Number	307	117

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1406	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.	Specfications	Number	3231	73
1407	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	9179	91
1408	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	18542	91

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1409	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	294	6
1410	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	463	6
1411	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	828	6
1412	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	315	14
1413	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	509	14
1414	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	333	14
1415	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	738	14
1416	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	561	14
1417	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	329	14

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1418	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	432	14
1419	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	1346	373
1420	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	1567	373

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1421	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	10342	201

Sr. No.	Chapter	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	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	463	229
1423	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	492	229
1424	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	573	229
1425	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	706	229
1426	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	516	256
1427	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	521	256
1428	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	447	229

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1429	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	474	229
1430	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 foundqtion, fixing post in cement cocncrete 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	519	161
1431	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	2386	382
1432	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 lefters/figures with approved colour and shade complete	Bd.W.7 Page No.586	Number	9694	1107
1433	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 lefters/figures with approved colour and shade complete	Bd.W.7 Page No.586	Number	9844	1165
1434	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	498	161
1435	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	78	42

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1436	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	101	45
1437	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	113	57
1438	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	170	106
1439	Building Miscellaneous Item	44.18	BDW	Providing and fixing lioghtening 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 diaof requiired length with M.S. round bnase plate 25 Cm diam and 10mm thick at bottom embeded in cement concrete 1:3:6 dfoundation 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 burried in specially prepared earth pits 1.5 metre below ground level with 40 kg charcoal and salt with altemate layers of charcoal and salt and G.I.pipe 40mm dia 2 meter length burried in earthe upto earthing plate remining portion above ground level for watering and refilling compete Note- Copper strip fropm lightening conductor is not considered in this item.	BDW 1 Page 581	Number	20245	4132
1440	Building Miscellaneous Item	44.19	BDW	Providing and fixing copper strip 25mm wide and 3mm thick for lightening conductor including fixing with screws required scaffolding etc.complete Note- Lightning conductor and earthin pits is not considered in this item	BdW 1 Page 581 as directed Engineer in Charge	Running Meter	568	217
1441	Building Miscellaneous Item	44.20	BDW	Providing and fixing in position alluminium 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	210	138

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1442	Building Miscellaneous Item	44.21	BDW	Providing and fixing crimped with G.I. mesh and size 20 mm x 20mm 10 guage 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	535	263
1443	Building Miscellaneous Item	44.23	BDW	Providing and fixing welded mesh fabric for guniting of mesh size 75 mm x 75mm and 10 guage thick including scaffolding etc.complete	As directed by Engineer in charge.	Square Metre	766	245
1444	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	735	245

Sr. No.	Chapter	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	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	79	79
1446	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	35	35
1447	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	1268	1268
1448	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	829	829
1449	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	622	622
1450	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	42	42
1451	Building Maintenance	46.07	BDW 8-9	Removing cloth ceiling including frame work and stacking the materials as directed with all leads, lifts etc. complete	As directed by Engineer in charge.	Square Metre	21	21
1452	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	185	185
1453	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	238	238
1454	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	190	190
1455	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	270	270
1456	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	397	397
1457	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	661	661

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1458	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	450	450
1459	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	111	111
1460	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	93	93
1461	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	29	29
1462	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	24	24
1463	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	32	32
1464	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	26	26
1465	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	11	11
1466	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	35	35
1467	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	48	48
1468	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	49	49
1469	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	16	16

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1470	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	16	16
1471	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	1031	1031
1472	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	199	71
1473	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	243	123
1474	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	50	50
1475	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	6	6
1476	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	14	14
1477	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	15	15
1478	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	15	15
1479	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	13	13
1480	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	47	13

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1481	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	1762	231
1482	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	68	68
1483	Building Maintenance	46.41	BDW	Removing W.C. pans including disconnecting the sanitary and water supply connections, removing and breaking flooring and bed concrete around pan removing the same carefully and stacking the serviceable materials as and where directed including throwing the unserviceable materials outside etc. carefully and throwing out the refusal outside etc. complete.	As directed by Engineer in charge.	Number	147	147

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1484	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
1485	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	82	82
1486	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	610	161
1487	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	598	161

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1488	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	166	69
1489	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-charge.	As directed by Engineer in charge.	Number	959	87
1490	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	242	36
1491	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	209	36
1492	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	117	18
1493	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	113	36
1494	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	157	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.
1495	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	222	222
1496	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	35	35
1497	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	132	132
1498	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	173	139
1499	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	813	154
1500	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	147	58
1501	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	534	534

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1502	Structural Strengthening	47.01	BDSS	Providing & Applying DuraClean- W - 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	As directed by Engineer in charge.	Square Metre	3538	391
1503	Structural Strengthening	47.02	BDSS	Providing and grouting the holes by Poly Ceramic Cementitious i.e NicGrout G 06 + 53 grade cement material of Dimple Chemicals 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	68	23
1504	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 Dimple Chemicals 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	1387	135

Sr. No.	Chapter	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	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 Dimple Chemical 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	4522	936
1506	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	1261	466
1507	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 - Dimple Chemicals 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	1364	59

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1508	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 curing ,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	4754	1196
1509	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 dimple chemicals , 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	4792	287

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1510	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 dimple chemicals , 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	6707	287
1511	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	2824	78

Sr. No.	Chapter	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	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 conffition 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	5069	1198
1513	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	484	17

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1514	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 miscible 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	52	3
1515	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 miscible 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 setting 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	140	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.
1516	Structural Strengthening	47.15	BDSS	Providing and applying 30 mm thick self curing Ceramic 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	2240	148
1517	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	668	56

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				SSR 2018-19 GREEN BUILDING				
1518	Masonry	48.01		Providing and constructing non load bearing wall with 200mm Horizontally perforated clay hollow blocks of approved make with compressive strength not less than 35 kg/Sqcm, U value of 47.0 W/m ² K, 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	1695	353
1519	Masonry	48.02		Providing and constructing non load bearing wall with 150mm Horizontally perforated clay hollow blocks of approved make with compressive strength not less than 35Kg/Sqcm, U value of 47.0 W/m ² k, 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	1505	295

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1520	Masonry	48.03		Providing and constructing non load bearing wall with 100mm Horizontally perforated clay hollow blocks of approved make with compressive strength not less than 35Kg/Sq.cm, U value of 47.0 W/m ² 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	1237	238

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1521	Flooring	48.04		<p>Providing and laying 18 mm thick ADONI BROWN LEATHER FINISH stone for flooring, 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.</p> <p>a) Flooring</p>	As directed by Engineer in charge	Square Metre	3254	820
1522	Flooring	48.05		<p>Providing and laying 18 mm thick ADONI BROWN LEATHER FINISH stone for flooring, 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.</p> <p>a) Skirting</p>	As directed by Engineer in charge	Square Metre	3280	820

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1523	Flooring	48.06		Providing and Laying factory made coloured chamfered edge Cement concrete grass paver blocks 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	707	0
1524	Flooring	48.07		Bamboowood 14 mm thick tile flooring 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	6923	175

Sr. No.	Chapter	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	Flooring	48.08		Bamboowood 14mm thick Tile Flooring 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	5602	175
1526	Flooring	48.09		Bamboowood 14mm thick wall Skirting - Providing & fixing in position Phenol bonded Epitome Bamboowood in wall skirting with planks of sizes 14mm thick, 1900mm length (minimum) and 85mm wide (minimum) , 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	5794	870

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1527	Flooring	48.10		Bamboowood 20mm thick Decking Outdoor Flooring Tile 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	10106	434

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1528	Colouring	48.11		Providing and applying 2 coats of 100% Pure acrylic low VOC and APEO & HCHO free water based paint 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	289	
1529	Colouring	48.12		Providing and applying 2 Coats of 100% Pure acrylic water based paint with special heat reflectance property 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	207	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.
1530	Colouring	48.13		Providing and applying 2 Coats of high quality acrylic copolymer matt latex low VOC emulsion paint of approved shade that 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	135	0
1531	Colouring	48.14		Providing and applying 2 Coats of 100% Pure acrylic low VOC water based paint 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	153	0
1532	Colouring	48.15		Providing and applying impression 24 carrat Luxury paint 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 preparation by Acrylic putty and Acrylic primer coats including scaffolding, preparing the surface. etc. complete (Low VOC).	As directed by Engineer in charge	Square Metre	186	0
1533	Colouring	48.16		Providing and applying antipeel paint 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 (Heat Reflective Paint).	As directed by Engineer in charge	Square Metre	207	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.
1534	Colouring	48.17		Providing and applying top coat exterior paint to terrace 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

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1535	Roofing	48.18		Providing & laying water proof treatment of terrace slab with B.B. Coba 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	646
1536	Roofing	48.19		Providing and applying two coats of High Albedo paint having minimum Solar Reflective Index (SRI) 108 (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	194.432	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.
1537	Doors & Windows	48.20		Bamboowood paneling or paneling and glazing in paneled and glazed shutters for doors of 25 to 40mm thick. 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	3022	521
1538	Doors & Windows	48.21		Bamboowood paneled or paneled and glazed Shutters of Doors 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 groove 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	4883	180
1539	Doors & Windows	48.22		Providing and fixing in position U.P.V.C.(Unplasticized Poly Vinyl Chloride) having multi-chambered outer frame section (73 x 50)mm 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	8603	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.
1540	Doors & Windows	48.23		Sliding Window- 3 Track (2 Glass shutter + 1 flymesh) of approved make with DGU , 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	19243	0
1541	Doors & Windows	48.24		Providing & fixing of Casement fixed window 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	15871	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.
1542	Plumbing	48.25		Providing and fixing sink cock with regular swinging spout (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	1863	34
1543	Plumbing	48.26		Providing and fixing sink cock with regular swinging spout (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	1389	34
1544	Plumbing	48.27		Providing and fixing C.P. 2 Way BIB cock 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	1886	34
1545	Plumbing	48.28		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.	As directed by Engineer in charge	Number	1300	34
1546	Plumbing	48.29		Providing and fixing Hand shower (health faucet) with 8mm dia. 1m long flexible tube 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	1643	34
1547	Plumbing	48.3		Providing and fixing white European type wall-hung, of size 360mm x 360mm x 575mm with flush valve 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	14573	574
1548	Plumbing	48.31		Providing and fixing white glazed urinal of series with Pressmatic auto closing valve of having 32mm diameter P.V.C. flush pipe 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	8846	574
1549	Plumbing	48.32		Providing and fixing wall hung white wash basin of size 350x450x165mm 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	5085	574

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1550	Plumbing	48.33		Providing and fixing Shower Head with shower arm 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	13672	574
1551	Plumbing	48.34		Providing and fixing Shower Head, with shower arm 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	5431	574
1552	Plumbing	48.35		Providing and fixing Oval Type Under Counter Wash Hand Basin of 420 x 590 x 195mm size 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	16306	574
1553	Plumbing	48.36		Providing and fixing Table top white wash basin of size 120x635x405mm 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	20275	574
1554	Plumbing	48.37		Providing and fixing white Opal series European type wall-hung, of size 400mmx370mmx575mm 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	16059	574
1555	Plumbing	48.38		Providing and fixing Orissa Pan of size 580x445x260 mm 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	5688	574
1556	Plumbing	48.39		Providing and fixing C.P. a 2-Way BIB cock 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	2079	202

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1557	Plumbing	48.4		Providing and fixing white wash basin with half pedestal of size 515mmX615mmX460mm 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	10302	0
1558	Plumbing	48.41		Providing and fixing white european type wall-hung pan, of size 350mm x 355mm x 570 mm 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	27493	0
1559	Plumbing	48.42		Providing and fixing Orissa type white glazed earthenware water closet pan of size 260mm x 440mm x 580mm 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	3279	0
1560	Plumbing	48.43		Providing and fixing white glazed urinal of size 710x460x300mm with sensotronic concealed type flushing valve 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	13257	0
1561	Plumbing	48.44		Providing and fixing of approved make white aquafree Waterless Urinal of with cartride size of 31.5x33x60cm including other necessary fittings etc. complete.	As directed by Engineer in charge	Number	17078	574
1562	Plumbing	48.45		Providing and fixing wall-hung white wash basin of size 470x575x190mm 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	7616	574

Sr. No.	Chapter	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	Rain water harvesting	48.46		RWH - Shallow Percolation Pit providing, constructing 2.0m deep shallow depth percolation pit 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	48750	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.
1564	Rain water harvesting	48.47		RWH - Recharge Pit Providing and constructing recharge pit of 2.0m deep and 1.0m dia of pre-cast RCC rings with 6.5" dia x 25m deep borewell 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	82204	0
1565	Rain water harvesting	48.48		Boring/drilling bore well of 300mm dia for casing/ strainer pipe , 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	391	126
1566	Rain water harvesting	48.49		Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well-casing pipe of 150mm dia , 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	445	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.
1567	Rain water harvesting	48.50		Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well screen pipes with ribs of 100mm dia , 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	308	5
1568	Rain water harvesting	48.51		Supplying, filling, spreading & leveling stone boulders of size range 5cm to 20cm in recharge pit , 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	712	142
1569	Rain water harvesting	48.52		Supplying, filling, spreading & leveling gravels of size range 5mm to 10mm, in the recharge pit , 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	1063	142
1570	Rain water harvesting	48.53		Supplying, filling, spreading & leveling coarse fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) of size range 1.5mm to 2mm in recharge pit , 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	948	142
1571	Rain water harvesting	48.54		Gravel packing in tubewell construction 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	1091	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.
1572	Others	48.55		Providing and Fixing Sun Louvre panels roll formed, 0.6mm thick , 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	6565	0
1573	Others	48.56		Providing & fixing heat insulation by wrapping the pipes with glass wool/asbestos fibre rope or tape/videoflex 32 mm as directed by Engineer in charge.	As directed by Engineer in charge	Running metre	207	0
1574	Others	48.57		Providing & fixing heat insulation by wrapping the pipes with glass wool/asbestos fibre rope or tape/videoflex 25 mm as directed by Engineer in charge.	As directed by Engineer in charge	Running metre	154	0
1575	Others	48.58		Providing & fixing heat insulation by wrapping the pipes with glass wool/asbestos fibre rope or tape/videoflex 15 mm as directed by Engineer in charge.	As directed by Engineer in charge	Running metre	126	0
1576	Others	48.59		CoolMortar - Providing & fixing 40mm thick CoolMortar 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	2884	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.
1577	Others	48.60		Bamboowood 10mm thick Wall Cladding including Threshold & T-mold - Providing & fixing in position Phenol bonded Bamboowood wall cladding at all height with planks of sizes 10mm thick, 1900mm length (minimum) and 135mm wide 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	6266	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.
1578	Others	48.61		<p>Bamboowood 10mm thick Wall Cladding including Threshold & T-mold for Accoustic purpose Providing & fixing in position Phenol bonded Bamboowood wall cladding at all height with planks of sizes 10mm thick, 1900mm length (minimum) and 135mm wide 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 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 & 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	5802	275

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.	
				SSR 2018-19 : Coastal					
1579	Coastal	49.01		Supplying and spreading geofabric filter layer of Geotextile of Polypropylene multifilament woven 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	66	8	
1580	Coastal	49.02		Providing and laying filter layer of polythene bags, filled with a/b/c 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				
			(a)	sand obtained from excavation of foundation		Cubic Metre	288	109	
			(b)	50% Sand obtained from excavation + 50% crushed sand		Cubic Metre	644	130	
			(c)	crushed sand (upto 5 mm) brought by Contractor		Cubic Metre	1037	188	
1581	Coastal	49.03	Rd - 19; Rd - 29; Rd - 27.	Supplying and laying trap stones upto 20 kilogram for Filter / Core layer 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	582	53	
1582	Coastal	49.04	Rd - 19; Rd - 29; Rd - 27.	Supplying and laying laterite stones upto 20 kilogram for Filter / Core layer 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	445	53	

Sr. No.	Chapter	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	Coastal	49.05	Rd - 19; Rd - 29; Rd - 27.	Supplying and laying trap stone weighing 20 to 50 kilogram for Core / Sub armour layer 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	589	53
1584	Coastal	49.06	Rd - 19; Rd - 29; Rd - 27.	Supplying and laying laterite stone weighing 20 to 50 kilogram for Core / Sub armour layer 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	451	53
1585	Coastal	49.07		Laying of trap / laterite stones by rearrangement of stones displaced from existing protection 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	94	53
1586	Coastal	49.08	Rd - 19; Rd - 29; Rd - 27.	Supplying and laying trap stone weighing 50 to 100 kilogram for Core / Sub armour / Armour layer 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	623	53

Sr. No.	Chapter	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	Coastal	49.09	Rd - 19; Rd - 29; Rd - 27.	Supplying and laying laterite stone weighing 50 to 100 kilogram for Core / Sub armour / Armour layer 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	486	53
1588	Coastal	49.10		Laying of trap stones by rearrangement of stones displaced from existing protection bund weighing 50 to 100 kilogram 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	136	53
1589	Coastal	49.11	Rd - 19; Rd - 29; Rd - 27.	Providing and laying trap stones weighing 100 to 200 kilogram for Core / Sub armour / Armour layer 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	776	106
1590	Coastal	49.12		Laying of trap stones by rearrangement of stones displaced from existing protection bund weighing 100 to 200 kilogram 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	271	106

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1591	Coastal	49.13	Rd - 19; Rd - 29; Rd - 27.	Providing and laying trap stones weighing 200 to 300 kilogram for Apron / Armour layer 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	855	106
1592	Coastal	49.14		Laying of trap stones by rearrangement of stones displaced from existing protection bund weighing 200 to 300 kilogram 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	304	106
1593	Coastal	49.15	Rd - 19; Rd - 29; Rd - 27.	Providing and laying trap stones weighing 300 to 500 kilogram for Sub armour / Apron / Armour layer 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	917	106
1594	Coastal	49.16		Laying of trap stones by rearrangement of stones displaced from existing protection bund weighing 300 to 500 kilogram 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	337	106

Sr. No.	Chapter	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	Coastal	49.17	Rd - 19; Rd - 29; Rd - 27.	Providing and laying trap stones weighing 500 to 1000 kilogram for Apron / Armour layer 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	956	106
1596	Coastal	49.18		Laying of trap stones by rearrangement of stones displaced from existing protection bund weighing 500 to 1000 kilogram 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	370	106
1597	Coastal	49.19	Rd - 19; Rd - 29; Rd - 27.	Providing and laying trap stones weighing above 1000 kilogram for Apron / Armour layer 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	1000	106
1598	Coastal	49.20		Laying of trap stones by rearrangement of stones displaced from existing protection bund weighing above 1000 kilogram 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	403	106

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1599	Coastal	49.21	Rd - 19; Rd - 29; Rd - 27.	Providing & fixing G.I. wire Gabions 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]			
				(a) Gabions of size – 1.00 x 1.00 x 1.00 M		Cubic Metre	2270	274
				(b) Gabions of size – 1.50 x 1.00 x 1.00 M		Cubic Metre	1974	255
				(c) Gabions of size – 2.00 x 1.00 x 1.00 M		Cubic Metre	2013	232
				(d) Gabions of size – 3.00 x 1.00 x 1.00 M		Cubic Metre	1892	191
				(e) Gabions of size – 4.00 x 1.00 x 1.00 M		Cubic Metre	1787	143
1600	Coastal	49.22	Rd - 19; Rd - 29; Rd - 27.	Providing and laying box type flexible gabions 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]			
				(a) Gabions of size – 1.00 x 1.00 x 1.00 M		Cubic Metre	1983	274
				(b) Gabions of size – 1.50 x 1.00 x 1.00 M		Cubic Metre	1833	255
				(c) Gabions of size – 2.00 x 1.00 x 0.50 M		Cubic Metre	1453	232
				(d) Gabions of size – 3.00 x 1.00 x 1.00 M		Cubic Metre	1645	191
1601	Coastal	49.23	Bd.E.5	Providing and laying precast tetrapods / blocks of plain cement concrete of M-30 grade, weighing 2000 kilogram 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	7467	1269

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1602	Coastal	49.24	Bd.E.5	Providing and laying precast tetrapods / blocks of plain cement concrete of M-30 grade, weighing 3000 kilogram 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	10043	1788
1603	Coastal	49.25	25	Relaying of precast concrete tetrapods / blocks, weighing upto 4000 kilogram 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	2183	212
1604	Coastal	49.26	Bd.E.5	Providing and laying in situ M-20 cement concrete of trap / granite / quartzite / gneiss metal with 15% plum of trap stones for foundation and bedding of retaining walls and jetty 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	4513	1197
1605	Coastal	49.27	Bd.E.5	Providing and laying in situ M-25 cement concrete of trap / granite / quartzite / gneiss metal with 15% plum of trap stones for retaining walls and jetty 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	4753	1197
1606	Coastal	49.28	28	Providing and fixing stainless steel bollard of steel pipe 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	19139	1062
1607	Coastal	49.29	29	Providing and fixing stainless steel mooring ring 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	9193	212

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1608	Coastal	49.30	30	Providing and fixing fenders made from used tyres 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	2030	670
1609	Coastal	49.31	31	Supplying and laying 100% PP Staple fibre Non woven Geobags filled with locally available sand (inital 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 130 to 150 kilogram)	As directed by Engineer -in- Charge	Number	240	29
1610	Coastal	49.32	32	Supplying and laying 100% PP Staple fibre Non woven Geo bags filled with locally available sand (inital 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 550 to 600 kilogram)	As directed by Engineer -in- Charge	Number	1370	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.
1611	Coastal	49.33	33	Providing laying and placing in position segment of a/b/c diameter UV Resistance Geotextile tubes 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			
				(a) Geotextile tubes of diametre – 3.00 M		Running metre	9389	388
				(b) Geotextile tubes of diametre – 1.50 M		Running metre	5298	194

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
SSR 2018-19 Additional New Items								
1612	Waterproofing Treatment	50.01		Waterproofing Treatment to existing Terrace 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	1981.35	1018.08
1613	Waterproofing Treatment	50.02		Waterproofing Treatment to existing Toilet and bathrooms 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	1981.35	1018.08

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1614	Waterproofing Treatment	50.03		<p>Clean the deck surface of the bridge of all loose particles, dust, cement laitance etc. preferably done by using machine like device. Inspect for cracks/construction joints. Fill the cracks 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 Flexiro of 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.</p>	As directed by Engineer in charge	Square metre	2134.23	449.81

Sr. No.	Chapter	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 & 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"> 1. Water permeability (DIN 1048): Nil as per DIN 1048 @ 7 bar of hydrostatic pressure. 2. Moisture permeability: < 0.4 g/m²/day 3. Accelerated Weathering (IS 101): 2000 hrs No cracking or blister formation. 4. Adhesion to concrete (ASTM D 1000): >21 Kg/cm² (Concrete Fails) 5. Tensile Strength: > 2.0 MPa (ASTM D412) 6. Should not be water soluble or water dilutable 7. Shore A Hardness: 40 ± 5 (ASTM D2240) 8. Elongation at Break: > 900 % (ASTM D412) 9. Solids: > 95 % 10. No micro-bubble formation or blistering should take place during the curing of thick films. <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.
1615	Waterproofing Treatment	50.04		Clean the R.C.C. roof slab surface of all loose particles, dust, cement laitance etc. preferably done by using machine like device. Inspect for cracks/construction joints. Fill the cracks 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	2134.23	449.81

Sr. No.	Chapter	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 & 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"> 1. Water permeability (DIN 1048): Nil as per DIN 1048 @ 7 bar of hydrostatic pressure. 2. Moisture permeability: < 0.4 g/m²/day 3. Accelerated Weathering (IS 101): 2000 hrs No cracking or blister formation. 4. Adhesion to concrete (ASTM D 1000): >21 Kg/cm² (Concrete Fails) 5. Tensile Strength: > 2.0 MPa (ASTM D412) 6. Should not be water soluble or water dilutable 7. Shore A Hardness: 40 ± 5 (ASTM D2240) 8. Elongation at Break: > 900 % (ASTM D412) 9. Solids: > 95 % 10. No micro-bubble formation or blistering should take place during the curing of thick films. <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.
1616	Waterproofing Treatment	50.05		<p>Clean the RCC roof slab surface of all loose particles, dust, cement laitance etc. preferably done using machine like device. Inspect for cracks /construction joints. Fill the cracks by Elastorroof PU of approved make & 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 Elastorroof 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. 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 Elastorroof PU of approved make & Single Component, Liquid Applied, Polyurethane Membrane should have following minimum properties:</p> <ol style="list-style-type: none"> 1. Specific gravity: 1.30 ± 0.1 2. Elongation %: >600 3. Tack free time: 24-48 hrs 4. Tensile strength N/mm²: 2.1 5. Shore hardness: 40 ± 5 <p>It shall be applied as per manufacturers specification. ☒</p>	As directed by Engineer in charge	Square Metre	1440.27	449.81

Sr. No.	Chapter	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	Protective coating and DPR	50.06		<p>Providing and applying two coats of protective membrane over the cured concrete surface like R.C.C. footings, columns, plinth beams etc. which will be submerged under soil so as to protect the same.</p> <p>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.</p>	As directed by Engineer in charge	Square Metre	246.6	119.61

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.
1618	Corrosion Inhibiting Admixture	50.07		Providing & Supplying corrosion inhibiting admixture in concrete to protect steel bars for all concrete 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	---
1619	Waterproofing admixture	50.08		Providing and mixing shrinkage compensating admixture cum plasticizer – 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	---

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1620	Bonding agent	50.09		Providing and applying one pack bonding coat between concrete members 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	53.77	33
1621	Water proofing	50.10		Clean the surface 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 & approved by Engineer in charge having a cream coloured viscous emulsion ready to use acrylic polymeric non-shrink crackfiller putty 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 waterproof heat insulating breathable decorative external coating Sunext 8 of approved make & 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. High Performance 100% Acrylic, Waterproof, Anti-fungal, Anti-carbonation, Heat Insulating External Paint should have following minimum properties: 1. Specific Gravity: 1.3 ± 0.1 at 25°C 2. pH: 7.0 to 10.00 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) 4. CO2 diffusion resistance co- efficient (DIN EN 1062-6 (2002-10): 7.59 x105 5. CO2 diffusion equivalent air layer thickness (DIN EN 1062-6 (2002-10): 127m @ 190 microns DFT 6. Adhesion (ASTM D 4541): 2.3 N/mm2 (Concrete / Substrate Failure)	As directed by Engineer in charge	Square metre	251.14	163.26

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.
1622	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			
				1.1. For Profile size of 75 x 50 mm with 32 x 12 mm rebate		RMT	435.00	74.00
				1.2 For Profile size of 100 x 50 mm with 32 x 12 mm rebate		RMT	535.00	90.00
				1.3 For Profile size of 125 x 50 mm with 38 x 12 mm rebate		RMT	635.00	108.00
				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.
1623	Paving , Flooding 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 ² 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 code 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	As directed by Engineer-in-charge	SQM	8693.50	1478.00
1624	Paving , Flooding 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
1625	Paving , Flooding 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

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1626	Paving , Florryng 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 Superitending Engineer.	As directed by Engineer-in-charge	SQM	2550.00	433.00
1627	Paving , Florryng 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 Superitending Engineer.	As directed by Engineer-in-charge	SQM	2850.00	485.00
1628	Paving , Florryng 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
1629	Paving , Florryng 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 Superitending Engineer.	As directed by Engineer-in-charge	SQM	3150.00	535.00
1630	Paving , Florryng 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 Superitending 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.
1631	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 grm/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
1632	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 grm/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
1633	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 grm/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.
1634	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
1635	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.
1636	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
1637	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 ² 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.
1638	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/m2K, 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
1639	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/m2K, 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
1640	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.	
1641	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	
1642	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 mansony 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	
1643	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				
				a)TFI-5300 Type-I			SQM	160.00	44.00
1644	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				
				a) TFI-3100			SQM	160.00	44.00
				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.
1645	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			
				a) TFI TECHGEO PR-15		SQM	134.00	44.00
				b) TFI TECHGEO PR-20		SQM	151.00	44.00
				c) TFI TECHGEO PR-30		SQM	167.00	44.00
				d) TFI TECHGEO PR-40		SQM	207.00	44.00
				e) TFI TECHGEO PR-60		SQM	279.00	88.00
1646	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			
				a) TFI TechGrid GeoGrid TGB-40		SQM	199.00	44.00
				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.
1647	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			
				a) TFI TechGrid GeoGrid PP2020		SQM	230.00	44.00
				b) TFI TechGrid GeoGrid PP3030		SQM	296.00	44.00
1648	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 mm mol /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			
				a) TFI TechGrid GeoGrid TGU-40		SQM	181.00	44.00
				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.
1649	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			
				a) TFI TechCell GeoCell-356x150		SQM	560.00	44.00
				b) TFI TechCell GeoCell-660x75		SQM	326.00	44.00
1650	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			
				a) TFI TGC-60		SQM	207.00	44.00
				b) TFI TGC-90		SQM	252.00	44.00
1651	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			
				a) TFI TechDrain TD-3520 U 100mm x 4mm		RMT	73.00	4.00
				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.
1652	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 selvedged 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			
				a) For 1m height		Cum.	1953.00	88.00
				b) For 0.5m height		Cum.	2280.00	44.00
1653	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			
				a) TFI Techglass AIC-50		SQM	240.00	44.00
				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.
1654	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			
				a) TFI TechPave-C040		SQM	116.00	44.00
1655	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			
				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.
1656	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	As directed by Engineer-in-charge			
				a) RE Wall Height 1 to 4 meter		SQM	5486.00	44.00
				b) RE Wall Height 4 to 6 meter		SQM	5832.00	88.00
				c) RE Wall Height 6 to 8 meter		SQM	6085.00	132.00
				d) RE Wall Height 8 to 10 meter		SQM	6313.00	177.00
				e) RE Wall Height 10 to 12 meter		SQM	6831.00	221.00
				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	Providing Heavy Duty Fibre Glass Reinforced Plastic Temporary Barricade of 1.75 m high, 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 & 5m height the weight of empty single Rotomoulded Plastic Barricade without	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.
1657				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 barracade 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)				
				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
				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
				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
				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

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				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
1658	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
1659	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
1660	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.
1661	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 amd 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 Superitending Engineer.	As directed by Engineer-in-charge	SQM	8.37	1.50
1662	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 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. with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge	CUM.	1613.00	275.00
1663	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 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.with prior approval of concerned Superitending 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.
1664	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
1665	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
1666	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

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1667	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
1668	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
1669	Road work	50.58	RD	Spreading 80/40 mm metal for road work including sectionong etc complete as directed by Engineer in charge .	As directed by Engineer-in-charge	CUM.	85.00	75.00
1670	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
1671	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
1672	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

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
1673	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
1674	Structural steel works	50.63	BD- C	Providing & Applying DuraClean- W or equivalent - 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 with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge	SQM	3500.00	387.00
1675	Miscellaneous	50.64	BD-W	Providing & grouting the holes by Poly Ceramic Cementitious i.e NicGrout G 06 + 53 grade cement material 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 with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge	per Kg	68.00	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.
1676	Miscellaneous	50.65	BD-W	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 per specification and as directed by Engineer-in-charge with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge	SQM	1373.00	134.00
1677	Miscellaneous	50.66	BD-W	PICC Coating for concrete Bridge repair work :-Providing and applying Poly Ironite Ceramic Cementitious (PICC) material, Self curing ,High Abrasion resistant , Non shrink ,High strength,UV resistant, repair mortar coating on bond coat Kelox water missable epoxy 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-harge with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge	SQM	4473.00	927.00
1678	Miscellaneous	50.67	BD-W	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 (DuraGrout including cost of all material, machinery, labour, scaffolding, etc.as per specification and as directed by Engineer-in-harge with prior approval of concerned Superitending Engineer.	As directed by Engineer-in-charge	SQM	1247.00	461.00

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.
1679	Miscellaneous	50.68	BD-W	Providing & Applying - 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 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 Engineer-in-harge with prior approval of concerned Superitendening Engineer.	As directed by Engineer-in-charge	SQM	1350.00	59.00
1680	Miscellaneous	50.69	BD-W	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 Engineer-in-harge with prior approval of concerned Superitendening Engineer.	As directed by Engineer-in-charge	SQM	4703.00	1184.00

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.
1681	Miscellaneous	50.70	BD-W	Providing and applying Poly Ironite Ceramic Cementitious (PICC) 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) 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 with prior approval of concerned superintending Engineer.	As directed by Engineer-in-charge	SQM	4740.00	285.00
1682	Miscellaneous	50.71	BD-W	Providing and applying Poly Ironite Ceramic Cementitious (PICC) 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) 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 with prior approval of concerned superintending Engineer.	As directed by Engineer-in-charge	SQM	6634.00	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.
1683	Miscellaneous	50.72	BD-W	Providing and applying Poly Ironite Ceramic Cementitious (PICC) 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 with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	SQM	2794.00	77.00
1684	Miscellaneous	50.73	BD-W	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 confiton 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 With prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	SQM	5014.00	1185.00

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.
1685	Miscellaneous	50.74	BD-W	Providing & Applying DuraClean- WR or equivalent - Chemicals 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 - 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 with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	SQM	480.00	17.00
1686	Miscellaneous	50.75	BD-W	Providing and applying Poly Ironite Ceramic Cementitious (PICC) 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 with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	Kg/SQM	52.00	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.
1687	Miscellaneous	50.76	BD-W	Providing and applying Poly Ironite Ceramic Cementitious (PICC) 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 miscible 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 setting 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 with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	Kg/SQM	139.00	3.00
1688	Miscellaneous	50.77	BD-W	Providing and applying 30 mm thick self curing Ceramic 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) Complete with all leads and lifts, Material, Machinery, Labour etc. complete as per specification and as directed by engineer-in-charge with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	SQM	2227.00	142.00

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.
1689	Miscellaneous	50.78	BD-W	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 Complete with all leads and lifts, Material, Machinery, Labour etc. complete as per specification and as directed by engineer-in-charge with prior approval of concerned Superintending Engineer.	As directed by Engineer-in-charge	SQM	664.00	54.00
1690	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(NOx, VOC's, CO, SOx, formaldehydes, etc.) in presence of natural or artificial light. It contains Graphene and nanoparticles of titanium oxide. and Absorbs CO2 (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

Sr. No.	Chapter	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	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 aggregates and can be applied on all patches and potholes including water logged patches and potholes 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 passenger and heavy commercial vehicles.The mix should be suitable for repairing of surfacing course and should be comprising of fine aggregates 0-10 mm,(5.5-7.5 %).additives as required.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
1692	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			
				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.				

Sr. No.	Chapter	SSR Item No.	Reference No.	Description of the item	Additional Specification	Unit	Completed Rate excluding GST In Rs.	Labour Rate excluding GST In Rs.
				a) Door Frame: 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
				b)Shutter : 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
				c) Vision Panel: 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

Sr. No.	Chapter	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	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			
				a)Door Frame: 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
				b)Shutter: 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
1694	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.				
				a) Door Frame: 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.
				b) Shutter: 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:401 and 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
1695	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			
				a) Door Frame: 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.
				b) Shutter: 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
1696	water supply and sanitary	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
1697	water supply and sanitary	50.86	BD-V	Supplying installation testing and commissioning 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			
				a) 50 mm dia		Rmt	1100.00	110.00
				b) 65 mm dia		Rmt	1280.00	128.00
				c) 75 mm dia		Rmt	1380.00	138.00
				d) 100 mm dia		Rmt	1600.00	160.00
				e) 150 mm dia		Rmt	2850.00	285.00
				f) 200 mm dia		Rmt	4750.00	285.00

MATERIAL RATES FOR SSR For Year 2018-2019

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
Building (Bd-A : Excavation)			
1	Blasting Powder	Kg.	65
2	Detonator	No.	16
3	Fuse	No.	160
4	Nipple For Fastening Detenator	No.	40
5	Noble Dynamite	Kg.	100
6	Red Tape Safety Fuse	R.Mt.	10
7	Blasting Fuse (Fuse wire)	No.	15
Building (Bd-C : Structural Steel Work)			
1	M.S.screws etc. 35mm dia. and 75mm long (100nos.)	Per Box	97
2	Nut Bolts 16mm dia./Nails all size	Kg.	72
3	Nut Bolts washers 12mm dia. 45mm long	No.	12
4	Nut Bolts washers 12mm dia. 75mm long	No.	16
5	M.S. Locking Arrangement for gate	No.	725
Building (Bd-F : Reinforcement Cement concrete)			
1	Binding Wire	Kg.	76
2	Centering Oil	Ltr.	10
3	Plastic Cover Block	No.	2.5
4	R.C.C.Jali 50mm thick	Sq.Mt.	470
5	Plastizer (Rheobuild) 825 R.Mt.	Ltr.	138
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.	3.1
9	Concrete Spacer Block 30 / 40 mm	No.	5
10	Anticorrrosive Primer Coat	Ltr.	145
11	Swaling Coat	Ltr.	132
12	PVC Coated GI Wire	L/M	180
13	Repairs to cut ends and damages with special liquid epoxy	L/M	100
14	Epoxy paint	Ltr	350
15	R.C.C.Jali 80mm thick	Sq.Mt.	700
Building (Bd-G : Brick Work)			
1	Bricks (Red)	No.	5.7
2	AAC Block 600x200x100 mm	No.	49
3	Jointing Mortar	Kg	17
Building (Bd-H : Stone Masonry)			
1	Corner stone 38*20*30cm	No.	78
2	Khandakies	No.	69
3	Pin Header (Standard Size)	No.	51
Building (Bd-I : Cement Concrete Stone Masonry)			
1	Hollow Blocks C.C.0.2*0.2*0.4M	No.	36
2	Hollow Blocks C.C.0.1*0.2*0.4M	No.	30
3	Hollow Block C C 0.30 x 0.20 x 0.15	No.	39
4	Siporex Block 75x240x650 mm	No.	67.46
5	GBP Build Fast plus	Kg.	29.33
6	Siporex Block 100x240x650 mm	No.	74.2
7	Siporex Block 200x240x650 mm	No.	150.15

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
Building (Bd-J : Water Proofing)			
1	Bitumen (Compound)	Kg.	59
2	Brick bats	Cu.Mt.	650
3	Water proof compound I.S	Kg.	120
4	Tar Felt B.H.I.S.I.3mm thick	Sq.Mt.	80
5	Acrylic Polymer Modified waterproofing Powder	Kg.	146
6	Acrylic Polymer Modified Liquid	Ltr.	200
7	Fibre Glass Mesh	Sq.Mt.	63
8	Bitumen 85/25 Grade	Kg.	59
9	Bitumen 85/25 Grade Cold Primer	Kg.	40
10	Grit (Add Below 5.6)	Cmt	675
11	Bitumen Felt	Sqm	80
Building (Bd-K : Expansion Joint)			
1	Polydee-TP40 Primer	Kg.	500
2	Polydee-TP40 Primer	Kg.	500
3	Polydee-LM	Kg.	505
4	Polydee-LM 150mm width	Kg.	560
5	Bituflex Cloesdcell foam 30x30 mm	R.Mt.	59
6	AG 10 Granules	Kg.	20
7	Polydee-MC	Kg.	770
8	Polydee-41 sealant and polyseal	Kg.	750
9	Polydee-11	Kg.	1180
10	Bitumen Pad 25mm thick 1.20 x 1.20 Mtr	Smt.	866
Building (Bd-L : Plastering and Pointing)			
1	Neeru / Sanala	Kg.	5.00
2	White Putty (Cement)	Kg.	26
3	Texture Material	bags	1206
Building (Bd-M : Paving, Flooring and Dado)			
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.	397
12	Black Kadappa (one side polish) (Machine cut) 35mm thick	Sq.Mt.	448
13	Both Sides Polished Kadappa stone 25mm thick	Sq.Mt.	496
14	Kota stone (Machine cut) upto 25-30mm thick one side	Sq.Mt.	488
15	Kota stone (Hand cut) upto 25-30mm thick one side polished	Sq.Mt.	454
16	Kota stone for step polished) upto 25mm thick (1.2*0.3M)	Sq.Mt.	500
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

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
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
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.	1243
29	Vitrified tiles Glossy Size 590 to 605 mm* 590 to 605 mm*8 to 10mm	Sq.Mt.	606
30	Vitrified matt finish - size 590 to 605 mm* 590 to 605 mm *8 to 10mm	Sq.Mt.	1068
31	Vitrified rustic matt stone finish size 590 to 605mm *590 to 605mm*8 to 10mm	Sq.Mt.	1068
32	Vertified stone effect finish size 590 to 605mm* 590 to 605mm * 8 to 10mm	Sq.Mt.	1068
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.	69
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.	316
44	Ceramic Tiles for dado 30 x 60 cm	Sq.Mt.	516
45	Marble (other than white makrana)	Sq.Mt.	950
46	Kota stone (Hand cut) upto 45-55mm thick one side polished	Sq.Mt.	550
Building (Bd-N : Wood finish)			
1	Bees wax	Kg.	150
2	Coal Tar	Kg.	65
3	Common Spirit	Ltr.	83
4	French Polish	Ltr.	178
5	Varnish	Ltr.	162
6	Malemaine Polish	Ltr.	313
7	C.C.T.W. Ballies 125 mm Diameter	R.Mt.	166
Building (Bd-O : Oil Painting)			
1	Oil enamel paint/flat/glossy paint(ready mix) (with I.S.I. Mark)	Ltr.	258
2	Synthetic paint (ready mix)	Ltr.	253
3	Catonic emulsion paint	Kg.	315
4	White oil paint 100ml pack tin	No.	38
5	Red Oxide paint	Ltr.	157
6	Cement paint	Kg.	59

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
7	Steel Primer	Ltr.	147
8	Primer for plaster surface	Ltr.	180
9	Putty	Kg.	26
10	Boiled linseed oil	Ltr.	79
11	Linseed oil double boiled	Ltr.	112
12	Terpentine	Ltr.	87
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.	185
19	Textured Synthetic paint	Ltr.	230
20	White lead paint	Kg.	280
21	Birla wall care putty	Kg.	56
22	Aluminium Paint	Lit.	279
23	Plastic emulsion paint	Ltr.	294.00
24	Acrylic Emulsion Paint	Ltr.	201.00
25	Exterior Primer	Ltr.	117.00
26	Weather shield paint	Ltr.	195.00

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

1	Neel	Kg.	125
2	Oil bound distemper	Kg.	100
3	Red powder / Geru	Kg.	18
4	Saras	Kg.	64
5	Scrapping sand paper size (30 * 20cm)	No.	11
6	Dry distemper	Kg.	92
7	Chunam / White lime Powder	Kg.	15
8	paint Luster Paint	Ltr.	203
9	Roller Brush	No.	250
10	Royale Luxury Emulsion Paint	Ltr.	393

Building (Bd-Q : Wood work)

	Country Teak Wood	Cu.Mt.	98000
1	Ghana teak wood	Cu.Mt.	80000
2	Teak Wood planks above 2.5 m length	Cu.Mt.	85000
3	Teak wood bidding 1/2" * 1/2"	Rmt	17
4	T.W.Balli 100 mm dia	Rmt	160
5	Jungle wood (non teak) normal	Cu.Mt.	34500
6	Bamboo 25mm dia.(4.5 to 6m)	No.	18
7	Bamboo 50mm dia.	No.	24
8	Bamboo Matting 1.2*1.8m	Sq.Mt.	56
9	Ply wood 12mm thick	Sq.Mt.	429
10	Ply wood 6mm thick	Sq.Mt.	329
11	Mica laminate as per ISI 0.1 mm thick	Sq.Mt	955
12	Face Veneel board 4 mm thick	Sq.Mt	450
13	Particle board B.W.P.Phinol bond 12mm thick	Sq.Mt.	386
14	Particle board B.W.P.Phinol bond 19 mm thick	Sq.Mt.	677
15	Formica 1.5 mm thick	Sq.Mt	1105
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.	55344
20	Teak wood batten 25 mm * 12 mm	Cu.Mt.	55344

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
21	Veneer 3.5 to 4 mm thick	Sq.mt.	445
22	Alluminium rod 25mm dia	Rmt.	56

Building (Bd-R : Roofing and ceiling)

1	A.C.Corrugated sheet 6mm thick	Sq.Mt.	120
2	A.C.Sheet ridge	Pair	275
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.	13
12	Mangalore Ridge / Hip tiles	No.	26
13	Mangalore Glass tiles	No.	352
14	Mangalore Pattern cowl Ventilator	No.	225
15	G.I. Pre coated trapezoidal 0.50 mm thick roof Metallic Coloured Sheet	Sq.Mt.	880
16	G.I. Pre coated Ridge Sheet	R.Mt.	555
17	Gypsum powder	Kg.	16.85
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

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
43	Tarat 36" width (Gunny Cloth)	R.Mt.	61
44	Wire glass	Sq.Mt.	600
45	Fire wood	Quintal	339
46	Precoated Galvanised Steel Plain Sheet	Smt	875
47	Connecting clip for supports	No.	6
48	Dry wall screws 25 mm	No.	3
49	Jointing Compound	Kg.	41.6
50	Jointing Tape	Rmt.	3.0
51	Minaral Fibre board 600 x 600 mm	Sq.Mt.	861.0
52	Perimeter Channel 80 x 8 mm	Kg.	175.0
53	Screws 1 1/2"	No.	0.6
54	Screws 1/2"	No.	0.5
55	Rawal Plug	No.	0.8
55	Plain Zinc Sheet 0.50 mm thick	Sq.mt.	550.0
Building (Bd-T : Doors and windows)			
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 Duty)	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

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
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
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.	90
72	Handle Stainless Steel 100 mm	No.	35
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.	65

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
77	Steel Window	Kg.	46
78	Powder Coating	Sq.Mt.	430.4
79	Rubber Lining	R.Mt.	23
80	Ply wood 9 mm thick	Sq.Mt.	395
81	Laminated board double 12mm thick	Sq.Mt.	740
82	Alluminium Section anodized	Kg.	205
83	Handle iron oxidised 150 mm	No.	50
84	Hinges iron oxidised 100 mm	No.	35
85	T. W. Particle board, both face laminated 12 mm	Smt.	382
86	Battens T.W. 70 x 45 mm	Cmt.	75000
87	Nuts and Bolts	Nos.	99
88	Plain FRP Sheet 22 B.W.G.	Smt.	2132
89	TW Runner (6" x 3")	Cmt.	75000
90	Alluminium Screw	Doz.	4.65
91	F Patti	Kg.	175
92	Teak wood planks above 2.5m length	Cu.Mt.	85000
93	Vision Panel	No.	205
94	Solid core shutter 35 mm thick with commercial veneer facing and phenol bonded	Sq.mt.	1080
95	Oil Paint	Ltr.	258
96	Acrylic Plain Sheet 2 mm thick	Sq.Mt.	670
97	Aluminium Sheet 24 B.W.G	Sq.mt.	365
98	Alluminium Section with Powder Coating	Kg.	195
99	Concealed lock	No.	110
100	Mosquito proof Nylone net	Sq.Mt.	204
101	Solid Core commercial shutter 30mm thick phenol bonded with face veneer 3 mm thick both side with bidding patty	Sq.Mt.	858

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.	1085
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

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
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.Copplers 75mm dia.	No.	222
44	C.I.Cover 45*30 cm with frame	No.	555
45	C.I.Cowl / Vent 100mm dia.	No.	315
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

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
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
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

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
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
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	Pillar 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

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
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
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 arragnement only but without teltpnone 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

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
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
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 7052)	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

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
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
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

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
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.	3810
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
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

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
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	215
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.	265
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.	1008
366	Ultra 250 mm.dia. uPVC Cover & Frame	No.	386
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.	325
371	White glazed full stall urinal	No.	4010
372	Glass plain 6mm thick	Sq.Mt.	850
373	White Glazed Earthenware Squatting plate (Ladies Urinal)	No.	600
374	Autoclosing pillar cock of pressmatic tap	No.	1589
375	PVC Aqua kraft type super bib tap 15 mm	No.	184
376	PVC Aqua kraft type super Two Way bib tap 15 mm	No.	354
377	Super push button type cock / tap with flange 15 mm	No.	200
378	PVC Aqua kraft type super jet spray 15 mm	No.	400
379	PVC Aqua kraft type super right angle stop tap	No.	196
380	PVC Aqua kraft type super Pillar tap 15 mm	No.	287
381	Fixing in CC BK Clamp, Battan	No.	20
382	Wall Mounted European type glazed W.C.pan	No.	6959
383	Super wall sink type tap with flange 15 mm	No.	555
384	Two Way bib tap with flange	No.	354
385	super jet spray with flange 2 in 1 faucet 1.50 metre long	No.	400
Building (Bd-W : Water supply and sanitary fittings)			

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
1	Clorophyriphoas	Liter	237
2	Solvent	Ltr	365
3	D.D.V.P.	Ltr	485
4	Malathion	Ltr	260
5	Pine Oil	Ltr	430
6	S.S. Pipe 40 mm dia	Rmt	135
7	Mild Steel	M.T.	33900
8	Barbed Wire	Kg.	80
9	Concentina Coil Wire	Rmt	155
10	M.S. Steel	Kg	35
12	RCC Pole	No	257
14	Green marble	Sq.Mt	1243
15	Telephone black granite	Sq.Mt	2438
16	Karva (for roof and sides 10kg bundle)	Bundle	24
17	Tatti	Sq.Mt	19
18	Bamboo 25mm dia.	R.Mt	18
20	Lightening Conductor	No.	8440
21	Salt	Kg.	20
22	Copper Tape width 25mm*3mm thick	Kg	382
23	Aluminium Strips 50 mm x 3 mm	R.Mt	58
24	Crippped wire 3' - 0" , 4' - 0" and 5' - 0" wide	Sq.mt	190
25	Welding Electrodes	No	4.50
26	Welded Mesh 75 X 75 mm	Sqm	182
27	Welded Mesh 150 X 150 mm	Sqm	155
28	Tarat 36" width (Gunny cloth)	R.Mt	30
29	Chain link 3' - 0" , 4' - 0" and 5' - 0" wide	Sq.Mt	177
30	Bamboo 50mm dia.	R.Mt	14
31	Hold Fast for Steel Gate	No.	53.00
32	Nut Boldts 12 mm dia. /Nails all size	No.	71.00
33	M.S. Pipe 40 mm dia	Rmt	129.00
34	Welding Rod	Box	350.00
35	PVC hand rail cover	Rmt.	200.00
36	Antitermite Liquid	Kg.	3,168.00
37	Lock for Drawer/Cupboard	No.	118.00
38	Glycel	Ltr.	255.00
39	Hing	Kg.	2,800.00
40	Hot lime	Kg.	4.80
41	Ladder	No.	100.00
42	Fine tooth chisel	No.	54.00
43	Saw	No.	30.00
44	Gloves	No.	10.00

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
CD Works (CD : Cross Drainage Works)			
1	R.C.C.Pipe 1200mm dia.(Np3)2.5m long	R.Mt.	7990.00
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

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
General Rates			
1	Cement	M.T.	4700
2	Structural Steel	M.T.	46000
3	TMT FE - 500	M.T.	45785
4	HCRM/CRS Reinforcement	M.T.	48000
5	Bitumen VG 10 (Bulk) (80/100)	M.T.	27240
6	Bitumen VG 30 (Bulk) (60/70)	M.T.	28040
7	Bitumen VG 40 (Bulk) (30/40)	M.T.	29210
8	Bitumen VG 30 (Packed) (60/70)	M.T.	31140
9	Bitumen VG 40 (Packed) (30/40)	M.T.	33210
10	Bitumen VG 10 (Packed) (80/100)	M.T.	30340
11a	Sand - Natural/V.S.I.(Vertical Shaft Impact Crusher)Quality Artificial Sand	Cu.Mt.	1500
12	Sand - Crushed	Cu.Mt.	650
13	Sand - Screened (for plaster work only)	Cu.Mt.	2050
14	Bricks II Class	No.	5.70
15	Rubble stone	Cu.Mt.	450
16	Aggregate 40 mm (Hand Broken) Blasted.	Cu.Mt.	700
17	Aggregate 25 mm	Cu.Mt.	800
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.	700
23	Soft Murum	Cu.Mt.	212
24	Hard Murum	Cu.Mt.	222
25	Water	1000 lit.	150
26	White Cement	Kg.	30
27	Plastizer	Ltr.	110
28	Stainless Steel Plate	Kg.	145
29	EMULSION RS1 (Hincol) BULK	M.T.	25525
30	EMULSION RS1 (Hincol) Packed	M.T.	31173
31	WASTE PLASTIC to be used in bituminous treatment as per IRC SP-098-2013	Kg.	50
32	Portland Slag Cement (PSC)	Bag	230
33	Ground Granulated Blast Furnance Slag (GGBS)	M.T.	3800

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
General (MORTH: Roads)			
1	Bitumen VG-40 (bulk (30-40 grade))	M.T.	29210
2	Stone Boulder of size 150 mm and below at Crusier Plant	Cu.Mt.	700
3	Supply of quarried stone 150 - 200 mm size for Hand Broken at site	Cu.Mt.	700
4	Boulder with minimum size of 300 mm for Pitching at Site	Cu.Mt.	700
5	Coarse sand at Mixing Plant	Cu.Mt.	1234
6	Coarse sand at Site	Cu.Mt.	1234
7	Murum at Site	Cu.Mt.	222
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.	700
19	Coarse graded Granular sub-base Material 2.36 mm & below	Cu.Mt.	700
20	Coarse graded Granular sub-base Material 4.75mm to 75 micron mm	Cu.Mt.	700
21	Coarse graded Granular sub-base Material 4.75 mm to 2.36 mm	Cu.Mt.	700
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
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

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
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.	28040
56	Bitumen VG -10 (bulk (80-100 grade))	M.T.	27240
57	Bitumen (Cutback)	M.T.	55225
58	Bitumen (emulsion)	M.T.	23500
59	Bitumen (modified graded) (bulk Cr-60)	M.T.	29250
60	Geo grids	Sq.Mt.	60
61	Geomembrane	Sq.Mt.	97
62	Geonets	Sq.Mt.	65
63	Geotextile	Sq.Mt.	50
64	Geotextile filter fabric	Sq.Mt.	50
65	LDO	Ltr.	44.39
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
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

Sr. No.	Description	Per Unit	Rate (Excluding GST) SSR 2018-19
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 2018-2019

Sr. No.	Description	Per Unit	Rate
1	Black Smith With Tools - II Class	Day	484.00
2	Stone Cutter With Tools - Semi Skilled	Day	484.00
3	Mason I Class Skilled	Day	511.00
4	Mason II Class Skilled	Day	511.00
5	Carpenter I Class Skilled	Day	511.00
6	Carpenter II Class Skilled	Day	511.00
7	Plumber With Tools - Skilled	Day	511.00
8	Glazier With Tools - Skilled	Day	511.00
9	Tin Smith With Tools - Semi Skilled	Day	484.00
10	Painter I Class Skilled	Day	511.00
11	Painter II Class Skilled	Day	511.00
12	Head Fitter With Tools - Skilled	Day	511.00
13	Mechanic	Day	511.00
14	Lorry Driver / Mixer Operator	Day	511.00
15	Welder / Driller - Skilled	Day	511.00
16	Polishman - Semi Skilled	Day	484.00
17	Assistant Plumber - Skilled	Day	484.00
18	Maistry Skilled / Supervisor / Mate	Day	511.00
19	Vibrator Operator - Skilled	Day	511.00
20	Skilled Labour	Day	464.00
21	Boreman Skilled	Day	511.00
22	Asphalt Sprayer Skilled	Day	511.00
23	Minor or Blaster Semi Skilled	Day	484.00
24	Quarry Man - Semi Skilled	Day	484.00
25	Painter / White Washer - Semi Skilled	Day	484.00
26	Labour for Excavation in Hard Rock (Un Blast)	Day	464.00
27	Tile Turner Semi Skilled	Day	484.00
28	Mazdoor - For Polishing	Day	464.00
29	Bar Bender Skilled	Day	484.00
30	Bhisti (Mixing / Curing) - Semi Skilled	Day	484.00
31	Mukadam - Semi Skilled	Day	484.00
32	Tar Handler - Semi Skilled	Day	484.00
33	Helper Un Skilled	Day	484.00
34	Tree Cutter - Semi Skilled	Day	484.00
35	Navaghani	Day	484.00
36	Mazdoor - Unskilled Heavy Male	Day	464.00
37	Mazdoor - Unskilled Heavy Female	Day	464.00
38	Below Boy	Day	464.00
39	Fitter With Tools I Class Skilled	Day	511.00
40	Fitter With Tools II Class Skilled	Day	484.00
41	Gun Man for Guniting	Day	511.00
42	Laboratory Assistant	Day	511.00
43	Labour for Tile Turning	Day	464.00
44	Excavator - Unskilled Heavy	Day	464.00
45	Breaker - Semi Skilled	Day	484.00
46	Hole Driller Semi Skilled	Day	484.00
47	Chiseler Semi Skilled	Day	484.00
48	Foreman Skilled	Day	511.00
49	Bandhani Semi Skilled	Day	484.00
50	Emgraver for lettering Skilled	Day	511.00
51	Frabi - Weld - Drilling	Day	484.00
52	Khalashi / Diers	Day	511.00
53	Jack Hammer Operator	Day	511.00
54	Electrician	Day	511.00
55	Welder Skilled	Day	511.00

LABOUR RATES FOR SSR For Year 2018-2019

Sr. No.	Description	Per Unit	Rate
56	Labour for Traffic Regulation	Day	464.00
57	Watchman	Day	464.00
58	Compressor Operator / Driver	Day	511.00
59	Supervisor / Mate	Day	511.00
60	Blacksmith (1st Class) Welder / Plumber / Electrician.	Day	511.00
61	Blaster (Stone Cutter)	Day	464.00
62	Mali	Day	484.00
63	Mazdoor / Dresser (Semi Skilled)	Day	484.00
64	Mazdoor / Dresser Sinker B116 Skilled	Day	484.00
65	Medical Officer	Day	1824.00
66	Operator (grouting)	Day	511.00
67	Para Medical Personnel	Day	912.00
68	Mazdoor unskilled female (light)	Day	484.00
69	Painting Lettering Number	Day	484.00
70	Junior Engineer	Day	1283.00
71	Surveyor	Day	884.00
72	Autocad Operator	Day	1283.00
73	Attendent	Day	464.00
74	Computer Typist	Day	690.00
75	Tracer	Day	884.00
76	Total Station Operator	Day	1283.00
77	Senior Engineer	Day	1869.00
78	Assistant	Day	690.00
79	Operator / Fitter	Day	511.00
80	Mazdoor Unskilled Light Male	Day	464.00
81	Computer Operator	Day	781.00
82	Survey Helper	Day	464.00
83	Technician	Day	1869.00
84	Skilled Assistants-on the site	Day	511.00
85	Supervisor	Day	884.00
86	Valuation expert	Day	1553.00
87	Office support Staff	Day	464.00
88	Co-ordinator	Day	1036.00
89	Senior Surveyor	Day	884.00
90	Revenue expert	Day	1036.00
91	Welder	Day	484.00

(A) Usage Rates of Plant and Machinery For Year 2018-2019			
Sl. No.	Description of Machine	Unit	Rate
P&M-001	Air Compressor	hour	500
P&M-002	Batching and Mixing Plant (a) 30 cum capacity	hour	1750
P&M-003	Batching and Mixing Plant (b) 15 - 20 cum capacity	hour	1500
P&M-004	Bitumen Pressure Distributor	hour	1158
P&M-005	Bitumen Boiler oil fired	hour	200
P&M-006	Concrete Paver Finisher with 40 HP Motor	hour	2594
P&M-007	Concrete Pump of 45 & 30 cum capacity	hour	476
P&M-008	Concrete Bucket	hour	50
P&M-009	Concrete Mixer (a) 0.4/0.28 cum	hour	450
P&M-010	Concrete Mixer (b) 1 cum	hour	600
P&M-011	Crane (a) 80 tonnes	hour	2700
P&M-012	Cranes b) 35 tonnes	hour	2295
P&M-013	Cranes c) 3 tonnes	hour	612
P&M-014	Dozer D - 80 - A 12	hour	2000
P&M-015	Dozer D - 50 - A 15	hour	1800
P&M-016	Emulsion Pressure Distributor	hour	968
P&M-017	Front End loader 1 cum bucket capacity	hour	968
P&M-018	Generator (a) 125 KVA	hour	1700
P&M-019	Generator (b) 63 KVA	hour	1200
P&M-020	GSB Plant 50 cum	hour	1737
P&M-021	Hotmix Plant - 120 TPH capacity (Drum Mix Plant)	hour	36580
P&M-022	Hotmix Plant -90-120 TPH capacity (Drum Mix Plant)	hour	13000
P&M-023	Hotmix Plant - 60 to 90 TPH capacity (Drum Mix Plant)	hour	11000
P&M-024	Hotmix Plant - 40 to 60 TPH capacity (Drum Mix Plant)	hour	10000
P&M-025	Hydraulic Chip Spreader	hour	400
P&M-026	Hydraulic Excavator of 1 cum bucket	hour	1200
P&M-027	Integrated Stone Crusher 100THP	hour	12000
P&M-028	Integrated Stone Crusher 200 HP	hour	15000
P&M-029	Kerb Casting Machine	hour	532
P&M-030	Mastic Cooker	hour	908

Sl. No.	Description of Machine	Unit	Rate
P&M-031	Mechanical Broom Hydraulic	hour	250
P&M-032	Motor Grader 3.35 mtr blade	hour	2000
P&M-033	Mobile slurry seal equipment	hour	
P&M-034	Paver Finisher Hydrostatic with sensor control 100 TPH	hour	3000
P&M-035	Paver Finisher Mechanical 100 TPH	hour	1200
P&M-036	Piling Rig with Bantonite Pump	hour	4500
P&M-037	Pneumatic Road Roller	hour	1000
P&M-038	Pneumatic Sinking Plant	hour	
P&M-039	Pot Hole Repair Machine	hour	400
P&M-040	Prestressing Jack with Pump & access	hour	
P&M-041	Ripper	hour	25
P&M-042	Rotavator	hour	20
P&M-043	Road marking machine	hour	100
P&M-044	Smooth Wheeled Roller 8 tonne	hour	691
P&M-045	Tandem Road Roller	hour	1392
P&M-046	Tipper - 5 cum	km	62
P&M-047	Tipper - 5 cum	tonne.km	6
P&M-048	Tipper - 5 cum	hour	745
P&M-049	Transit Mixer 4.0/4.5 cum	hour	1399
P&M-050	Transit Mixer 4/4.5 cum	tonne.km	10
P&M-051	Transit Mixer 3.0 cum	hour	1100
P&M-052	Transit Mixer 3.0 cum	tonne.km	8
P&M-053	Tractor	hour	330
P&M-054	Tractor with Rotevator	hour	350
P&M-055	Tractor with Ripper	hour	600
P&M-056	Truck 5.5 cum per 10 tonnes	km	31
P&M-057	Truck 5.5 cum per 10 tonnes	hour	600
P&M-058	Truck 5.5 cum per 10 tonnes	tonne.km	3.63
P&M-059	Vibratory Roller 8 tonne	hour	1591
P&M-059	Power Roller 8 tonne	hour	651
P&M-060	Water Tanker	hour	600

Sl. No.	Description of Machine	Unit	Rate
P&M-061	Water Tanker	km	24
P&M-062	Wet Mix Plant 60 TPH	hour	2000
P&M-021	Hotmix Plant - 160 TPH capacity BATCH MIX PLANT	hour	48679
P&M-062a	Hotmix Plant - 120-160 TPH capacity BATCH MIX PLANT	hour	20000
P&M-62b	Hotmix Plant - 100-120 TPH capacity BATCH MIX PLANT	hour	15000
P&M-063	Air compressor with pneumatic chisel attachment for cutting hard clay.	hour	900
P&M-064	Batch type cold mixing plant 100-120 TPH capacity producing an average output of 75 tonne per hour	hour	10000
P&M-065	Belt conveyor system	hour	125
P&M-066	Boat to carry atleast 20 persons	hour	550
P&M-067	Cement concrete batch mix plant @ 175 cum per hour (effective output)	hour	10500
P&M-068	Cement concrete batch mix plant @ 75 cum per hour	hour	6500
P&M-069	Cold milling machine @ 20 cum per hour	hour	150
P&M-070	Crane 5 tonne capacity	hour	917
P&M-071	Crane 10 tonne capacity	hour	1000
P&M-072	Crane 15 tonne capacity	hour	1100
P&M-073	Crane 20 tonne capacity	hour	1225
P&M-074	Crane 40 T capacity	hour	2295
P&M-075	Crane with grab 0.75 cum capacity	hour	350
P&M-076	Compressor with guniting equipment along with accessories	hour	900
P&M-077	Drum mix plant for cold mixes of appropriate capacity but not less than 75 tonnes/hour. (35-40tonne)	hour	7500
P&M-078	Epoxy Injection gun	hour	
P&M-079	Generator 33 KVA	hour	1000
P&M-080	Generator 100 KVA	hour	1700
P&M-081	Generator 250 KVA	hour	2000
P&M-082	Generator 325 KVA	hour	2500
P&M-083	Induction, deinduction and erection of plant and equipment including all components and accessories for pneumatic method of well sinking.	hour	
P&M-084	Joint Cutting Machine with 2-3 blades (for rigid pavement)	hour	800
P&M-085	Jack for Lifting 40 tonne lifting capacity.	day	3000

Sl. No.	Description of Machine	Unit	Rate
P&M-086	Piling rig Including double acting pile driving hammer (Hydraulic rig)	hrs	4500
P&M-087	Plate compactor	hour	150
P&M-088	Snow blower equipment 140 HP @ 600 cum per hour	hour	
P&M-089	Texturing machine (for rigid pavement)	hour	145
P&M-090	Truck Trailor 30 tonne capacity	hour	1100
P&M-091	Truck Trailor 30 tonne capacity	t.km	6
P&M-092	Tunnel Boring machine	hour	
P&M-093	Vibrating Pile driving hammer complete with power unit and accessories	hour	4500
P&M-094	Wet Mix Plant 100 TPH	hour	4000
P&M-095	Wet Mix Plant 75 TPH	hour	3000
P&M-096	Vibrator (Electrical)	Hour	157
P&M-097	Reversible drum concrete mixer with SCADA	Hour	698
P&M-098	Pile boring machinery 325 - 400 mm dia.	R.Mt.	186
P&M-099	Loader 1.20 MT Capacity	Hour	1867
P&M-100	JCB 8 to 10 MT	Day	10160
P&M-101	Pumping Charges	Cmt	200
P&M-102	Pile Boaring Machine 325 to 400 mm	Day	4110
P&M-103	Pile Boaring Machine 425 to 500 mm	Day	4280
P&M-104	Pile Boaring Machine 525 to 600 mm	Day	4762
P&M-105	Pile Boaring Machine 625 to 700 mm	Day	5713
P&M-106	Pile Boaring Machine 725 to 1050 mm	Day	6200
P&M-107	Bentonite Pump	Day	75
P&M-108	Concrete Mixture 10/7 Cft	Day	1496
P&M-109	Vibrator (Diesel)	Day	960
P&M-110	Guiniting Gun	Hour	259
P&M-111	Chain and pully	Day	226
P&M-112	Welding machine	Day	336
P&M-113	Electric drill machine	Day	339
P&M-114	Electric gas cutting machine	Day	245
P&M-115	Rammer	Hour	156

Sl. No.	Description of Machine	Unit	Rate
P&M-116	Dumper 6 Cu.Mt Capacity with VTS (vehicle tracking system)	Hour	2345
P&M-117	Polishing machine with Polishman	Day	771
P&M-118	Tile Cutting Machine	Hour	26
P&M-119	Hand polishing with Polishman	Day	450
P&M-120	Tile Polishing Machine (Grinder)	Day	185
P&M-121	Careful handling of slow bending, wooden battens between row of coated bars PVC pipe pcs. To cover work bench pins or use of bars bending machine etc	L/M	250
P&M-122	Drill Bits	Day	171
P&M-123	Engraver	Day	29
P&M-124	Hydraulic Excavator with driver and fuel	Day	7000
P&M-125	Hire and running charges of Loader	Day	6000

STATEMENT - C (With Machine Loading)
(FOR YEAR 2018-2019) Maharashtra

Cost of Diesel (Avg cost in 2018)
Cost of mobile Oil (As on 28-06-2018)
Loading charges per tipper by Loader

71.94 Per Litre
317 Per Litre
569 Per trip (Rate of loader Rs. 968 / Hr as per cpwd dsr at 85 % bucket efficiency cycle time 3 min)

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@317/Ltr	Hire Charges of Truck@ Rs. 2000 per Day	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	Fuel Componant	Cost Per trip 10 MT
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	17	18
L	S	F	$N=B/([F*(L/S)]+1)$	$(2*NL)+6$														
0.50	15.00	2.00	7.50	13.50	3.38	243.16	0.076	24.11	2000.00	2267.27	226.73	2494.00	332.53	569.00	901.53	0.50	39.20	332.53
1.00	16.00	2.00	7.11	20.22	5.06	364.02	0.114	36.09	2000.00	2400.11	240.01	2640.12	371.27	569.00	940.27	1.00	61.89	371.27
1.50	16.50	2.00	6.77	26.31	6.58	473.37	0.148	46.93	2000.00	2520.30	252.03	2772.33	409.55	569.00	978.55	1.50	84.55	409.55
2.00	17.00	2.00	6.48	31.90	7.98	574.08	0.180	56.92	2000.00	2631.00	263.10	2894.10	446.88	569.00	1015.88	2.00	107.18	446.88
2.50	17.25	2.00	6.20	37.01	9.25	665.45	0.208	65.98	2000.00	2731.43	273.14	3004.57	484.43	569.00	1053.43	2.50	129.72	484.43
3.00	17.50	2.00	5.96	41.74	10.44	751.05	0.235	74.46	2000.00	2825.51	282.55	3108.06	521.71	569.00	1090.71	3.00	152.43	521.71
3.50	17.75	2.00	5.74	46.16	11.54	830.19	0.260	82.31	2000.00	2912.50	291.25	3203.75	558.40	569.00	1127.40	3.50	174.95	558.40
4.00	18.00	2.00	5.54	50.31	12.58	905.01	0.283	89.73	2000.00	2994.74	299.47	3294.21	594.79	569.00	1163.79	4.00	197.57	594.79
4.50	18.25	2.00	5.36	54.22	13.56	975.51	0.305	96.72	2000.00	3072.23	307.22	3379.45	630.75	569.00	1199.75	4.50	220.14	630.75
5.00	18.50	2.00	5.19	57.93	14.48	1041.69	0.326	103.28	2000.00	3144.97	314.50	3459.47	666.18	569.00	1235.18	5.00	242.53	666.18
5.50	18.50	2.00	5.02	61.19	15.30	1100.68	0.344	109.13	2000.00	3209.81	320.98	3530.79	703.77	569.00	1272.77	5.50	265.26	703.77
6.00	18.75	2.00	4.88	64.54	16.13	1160.39	0.363	115.05	2000.00	3275.44	327.54	3602.98	738.61	569.00	1307.61	6.00	287.61	738.61
6.50	18.85	2.00	4.73	67.55	16.89	1215.07	0.380	120.47	2000.00	3335.54	333.55	3669.09	774.94	569.00	1343.94	6.50	310.28	774.94
7.00	19.00	2.00	4.61	70.48	17.62	1267.58	0.396	125.67	2000.00	3393.25	339.33	3732.58	810.36	569.00	1379.36	7.00	332.73	810.36
7.50	19.15	2.00	4.49	73.29	18.32	1317.94	0.412	130.67	2000.00	3448.61	344.86	3793.47	845.61	569.00	1414.61	7.50	355.20	845.61
8.00	19.30	2.00	4.37	75.98	19.00	1366.86	0.428	135.52	2000.00	3502.38	350.24	3852.62	880.81	569.00	1449.81	8.00	377.83	880.81
8.50	19.45	2.00	4.27	78.57	19.64	1412.90	0.442	140.08	2000.00	3552.98	355.30	3908.28	915.53	569.00	1484.53	8.50	400.17	915.53
9.00	19.60	2.00	4.17	81.06	20.27	1458.22	0.456	144.58	2000.00	3602.80	360.28	3963.08	950.33	569.00	1519.33	9.00	422.78	950.33
9.50	19.80	2.00	4.08	83.57	20.89	1502.83	0.470	149.00	2000.00	3651.83	365.18	4017.01	983.96	569.00	1552.96	9.50	445.08	983.96
10.00	20.00	2.00	4.00	86.00	21.50	1546.71	0.484	153.35	2000.00	3700.06	370.01	4070.07	1017.52	569.00	1586.52	10.00	467.52	1017.52
11.00	21.00	2.00	3.91	91.95	22.99	1653.90	0.517	163.98	2000.00	3817.88	381.79	4199.67	1074.92	569.00	1643.92	11.00	511.82	1074.92
12.00	22.00	2.00	3.83	97.83	24.46	1759.65	0.550	174.46	2000.00	3934.11	393.41	4327.52	1131.06	569.00	1700.06	12.00	556.06	1131.06

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@317/Ltr	Hire Charges of Truck@ Rs. 2000 per Day	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	Fuel Componant	Cost Per trip 10 MT
L	S	F	$N = \frac{L}{S} \times (F + 1)$	$(2 * NL) + 6$														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	17	18
13.00	23.00	2.00	3.76	103.63	25.91	1863.97	0.583	184.80	2000.00	4048.77	404.88	4453.65	1186.03	569.00	1755.03	13.00	600.15	1186.03
14.00	24.00	2.00	3.69	109.38	27.35	1967.56	0.615	195.07	2000.00	4162.63	416.26	4578.89	1240.12	569.00	1809.12	14.00	644.28	1240.12
15.00	25.00	2.00	3.64	115.09	28.77	2069.71	0.647	205.20	2000.00	4274.91	427.49	4702.40	1293.16	569.00	1862.16	15.00	688.16	1293.16
20.00	25.00	2.00	3.08	129.08	32.27	2321.50	0.726	230.17	2000.00	4551.67	455.17	5006.84	1627.22	569.00	2196.22	20.00	912.22	1627.22
25.00	25.00	2.00	2.67	139.33	34.83	2505.67	0.784	248.42	2000.00	4754.09	475.41	5229.50	1961.06	569.00	2530.06	25.00	1136.06	1961.06
30.00	30.00	2.00	2.67	166.00	41.50	2985.51	0.934	296.00	2000.00	5281.51	528.15	5809.66	2178.62	569.00	2747.62	30.00	1353.62	2178.62
35.00	30.00	2.00	2.40	174.00	43.50	3129.39	0.979	310.26	2000.00	5439.65	543.97	5983.62	2493.18	569.00	3062.18	35.00	1576.51	2493.18
40.00	30.00	2.00	2.18	180.55	45.14	3247.37	1.016	321.96	2000.00	5569.33	556.93	6126.26	2807.87	569.00	3376.87	40.00	1799.54	2807.87
45.00	30.00	2.00	2.00	186.00	46.50	3345.21	1.046	331.66	2000.00	5676.87	567.69	6244.56	3122.28	569.00	3691.28	45.00	2022.28	3122.28
50.00	30.00	1.75	2.04	210.26	52.56	3781.17	1.183	374.88	2000.00	6156.05	615.61	6771.66	3315.29	569.00	3884.29	50.00	2238.20	3315.29
60.00	35.00	1.75	2.00	246.00	61.50	4424.31	1.384	438.65	2000.00	6862.96	686.30	7549.26	3774.63	569.00	4343.63	60.00		
70.00	35.00	1.75	1.78	254.89	63.72	4584.02	1.434	454.48	2000.00	7038.50	703.85	7742.35	4355.07	569.00	4924.07	70.00		
80.00	35.00	1.75	1.60	262.00	65.50	4712.07	1.474	467.18	2000.00	7179.25	717.93	7897.18	4935.74	569.00	5504.74	80.00		
90.00	35.00	1.75	1.45	267.82	66.95	4816.38	1.506	477.52	2000.00	7293.90	729.39	8023.29	5516.01	569.00	6085.01	90.00		
100.00	35.00	1.75	1.33	272.67	68.17	4904.15	1.534	486.22	2000.00	7390.37	739.04	8129.41	6097.06	569.00	6666.06	100.00		
125.00	40.00	1.50	1.41	357.65	89.41	6432.16	2.012	637.72	2000.00	9069.88	906.99	9976.87	7092.93	569.00	7661.93	125.00		
150.00	40.00	1.50	1.21	368.26	92.07	6623.52	2.072	656.69	2000.00	9280.21	928.02	10208.23	8453.69	569.00	9022.69	150.00		
175.00	40.00	1.25	1.24	438.85	109.71	7892.54	2.468	782.51	2000.00	10675.05	1067.51	11742.56	9494.96	569.00	10063.96	175.00		
200.00	40.00	1.25	1.10	447.38	111.84	8045.77	2.516	797.70	2000.00	10843.47	1084.35	11927.82	10809.59	569.00	11378.59	200.00		
250.00	40.00	1.25	0.91	459.90	114.98	8271.66	2.587	820.09	2000.00	11091.75	1109.18	12200.93	13440.09	569.00	14009.09	250.00		
300.00	40.00	1.25	0.77	468.65	117.16	8428.49	2.636	835.64	2000.00	11264.13	1126.41	12390.54	16068.98	569.00	16637.98	300.00		
350.00	40.00	1.25	0.67	475.11	118.78	8545.03	2.673	847.20	2000.00	11392.23	1139.22	12531.45	18699.27	569.00	19268.27	350.00		
400.00	40.00	1.25	0.59	480.07	120.02	8634.24	2.700	856.04	2000.00	11490.28	1149.03	12639.31	21328.84	569.00	21897.84	400.00		
500.00	40.00	1.25	0.48	487.20	121.80	8762.29	2.741	868.74	2000.00	11631.03	1163.10	12794.13	26587.80	569.00	27156.80	500.00		
600.00	40.00	1.25	0.41	492.08	123.02	8850.06	2.768	877.44	2000.00	11727.50	1172.75	12900.25	31847.49	569.00	32416.49	600.00		
700.00	40.00	1.25	0.35	495.62	123.90	8913.37	2.788	883.72	2000.00	11797.09	1179.71	12976.80	37105.54	569.00	37674.54	700.00		
800.00	40.00	1.25	0.31	498.31	124.58	8962.29	2.803	888.57	2000.00	11850.86	1185.09	13035.95	42366.84	569.00	42935.84	800.00		
900.00	40.00	1.25	0.27	500.42	125.11	9000.41	2.815	892.35	2000.00	11892.76	1189.28	13082.04	47626.80	569.00	48195.80	900.00		
1000.00	40.00	1.25	0.25	502.12	125.53	9030.63	2.824	895.34	2000.00	11925.97	1192.60	13118.57	52884.24	569.00	53453.24	1000.00		

Note: For lead distance upto 2 km as number of trips are more, manual loading is more economical than machine loading in the range of 10 to 5%, but For lead distance more than 2.00 km machine loading is more economical than manual loading in the range of 0 to 20 %

STATEMENT - C 1 (With Machine Loading)
(FOR YEAR 2018-2019) Maharashtra

Cost of Diesel (Avg cost in 2018) 71.94 Per Litre
 Cost of mobile Oil (As on 28-06-2018) 317 Per Litre
 Loading charges per tipper by Loader 569 Per trip (Rate of loader Rs. 968 / Hr as per cpwd dsr at 85 % bucket efficiency cycle time 3 min)

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

Lead in km	Cost Per Trip	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	901.53	39.20	150.26	6.53	165.42	7.19	191.81	8.34	156.79	6.82	150.26	6.53
1.00	940.27	61.90	156.71	10.32	172.53	11.36	200.06	13.17	163.53	10.77	156.71	10.32
1.50	978.55	84.54	163.09	14.09	179.55	15.51	208.20	17.99	170.18	14.70	163.09	14.09
2.00	1015.88	107.11	169.31	17.85	186.40	19.65	216.14	22.79	176.67	18.63	169.31	17.85
2.50	1053.43	129.77	175.57	21.63	193.29	23.81	224.13	27.61	183.21	22.57	175.57	21.63
3.00	1090.71	152.36	181.79	25.39	200.13	27.96	232.07	32.42	189.69	26.50	181.79	25.39
3.50	1127.40	175.02	187.90	29.17	206.86	32.11	239.87	37.24	196.07	30.44	187.90	29.17
4.00	1163.79	197.51	193.97	32.92	213.54	36.24	247.61	42.02	202.40	34.35	193.97	32.92
4.50	1199.75	220.05	199.96	36.68	220.14	40.38	255.27	46.82	208.65	38.27	199.96	36.68
5.00	1235.18	242.67	205.86	40.45	226.64	44.53	262.80	51.63	214.81	42.20	205.86	40.45
5.50	1272.77	265.27	212.13	44.21	233.54	48.67	270.80	56.44	221.35	46.13	212.13	44.21
6.00	1307.61	287.68	217.94	47.95	239.93	52.79	278.21	61.21	227.41	50.03	217.94	47.95
6.50	1343.94	310.22	223.99	51.70	246.59	56.92	285.94	66.00	233.73	53.95	223.99	51.70
7.00	1379.36	332.83	229.89	55.47	253.09	61.07	293.48	70.81	239.89	57.88	229.89	55.47
7.50	1414.61	355.28	235.77	59.21	259.56	65.19	300.98	75.59	246.02	61.79	235.77	59.21
8.00	1449.81	377.77	241.64	62.96	266.02	69.32	308.47	80.38	252.14	65.70	241.64	62.96

Lead in km	Cost Per Trip Lead Charges	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	
8.50	1484.53	400.27	247.42	66.71	272.39	73.44	315.86	85.16	258.18	69.61	247.42	66.71
9.00	1519.33	422.80	253.22	70.47	278.78	77.58	323.26	89.96	264.23	73.53	253.22	70.47
9.50	1552.96	445.13	258.83	74.19	284.95	81.68	330.42	94.71	270.08	77.41	258.83	74.19
10.00	1586.52	467.52	264.42	77.92	291.10	85.78	337.56	99.47	275.92	81.31	264.42	77.92
11.00	1643.92	511.87	273.99	85.31	301.64	93.92	349.77	108.91	285.90	89.02	273.99	85.31
12.00	1700.06	555.94	283.34	92.66	311.94	102.01	361.71	118.29	295.66	96.69	283.34	92.66
13.00	1755.03	600.07	292.51	100.01	322.02	110.10	373.41	127.67	305.22	104.36	292.51	100.01
14.00	1809.12	644.22	301.52	107.37	331.95	118.21	384.92	137.07	314.63	112.04	301.52	107.37
15.00	1862.16	688.19	310.36	114.70	341.68	126.27	396.20	146.42	323.85	119.69	310.36	114.70
20.00	2196.22	912.16	366.04	152.03	402.98	167.37	467.28	194.08	381.95	158.64	366.04	152.03
25.00	2530.06	1136.27	421.68	189.38	464.23	208.49	538.31	241.76	440.01	197.61	421.68	189.38
30.00	2747.62	1353.56	457.94	225.59	504.15	248.36	584.60	287.99	477.85	235.40	457.94	225.59
35.00	3062.18	1576.51	510.36	262.75	561.87	289.27	651.53	335.43	532.55	274.18	510.36	262.75
40.00	3376.87	1799.45	562.81	299.91	619.61	330.17	718.48	382.86	587.28	312.95	562.81	299.91
45.00	3691.28	2022.28	615.21	337.05	677.30	371.06	785.38	430.27	641.96	351.70	615.21	337.05
50.00	3884.29	2238.45	647.38	373.08	712.71	410.72	826.44	476.27	675.53	389.30	647.38	373.08
60.00	4343.63	2674.63	723.94	445.77	797.00	490.76	924.18	569.07	755.41	465.15	723.94	445.77
70.00	4924.07	3117.59	820.68	519.60	903.50	572.03	1047.67	663.32	856.36	542.19	820.68	519.60
80.00	5504.74	3560.73	917.46	593.46	1010.04	653.34	1171.22	757.60	957.35	619.26	917.46	593.46
90.00	6085.01	4004.06	1014.17	667.34	1116.52	734.69	1294.68	851.93	1058.26	696.36	1014.17	667.34
100.00	6666.06	4447.08	1111.01	741.18	1223.13	815.98	1418.31	946.19	1159.31	773.41	1111.01	741.18

Lead in km	Cost Per Trip Lead Charges	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	
125.00	7661.93	5529.08	1276.99	921.51	1405.86	1014.51	1630.20	1176.40	1332.51	961.58	1276.99	921.51
150.00	9022.69	6631.30	1503.78	1105.22	1655.54	1216.75	1919.72	1410.91	1569.16	1153.27	1503.78	1105.22
175.00	10063.96	7715.95	1677.33	1285.99	1846.60	1415.77	2141.27	1641.69	1750.25	1341.90	1677.33	1285.99
200.00	11378.59	8816.58	1896.43	1469.43	2087.81	1617.72	2420.98	1875.87	1978.89	1533.32	1896.43	1469.43
250.00	14009.09	11015.84	2334.85	1835.97	2570.48	2021.26	2980.66	2343.80	2436.36	1915.80	2334.85	1835.97
300.00	16637.98	13216.40	2773.00	2202.73	3052.84	2425.03	3540.00	2812.00	2893.56	2298.50	2773.00	2202.73
350.00	19268.27	15416.18	3211.38	2569.36	3535.46	2828.66	4099.63	3280.04	3351.00	2681.07	3211.38	2569.36
400.00	21897.84	17617.08	3649.64	2936.18	4017.95	3232.49	4659.11	3748.31	3808.32	3063.84	3649.64	2936.18
500.00	27156.80	22016.75	4526.13	3669.46	4982.90	4039.77	5778.04	4684.41	4722.92	3829.00	4526.13	3669.46

STATEMENT - C (With Manual Loading)
(FOR YEAR 2018-2019) Maharashtra

Cost of Diesel (Avg cost in 2018)
Cost of mobile Oil (As on 28-06-2018)
Labour Charges of mazdoor

71.94 Per Litre
317 Per Litre
464 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@317/ Ltr	Cost of 6 Mazdoor @464/lbr	Hire Charges of Truck@Rs. 2000 per day	Total cost	add 10% Overhead Charges	Gross Total of 12+13	Cost per Trip=(Col 14/4)	Lead in km	Fuel Component	Cost Per trip 10 MT
L	S	F	$N=8/((2*(L/5))+1)$	$(2*NL)+6$													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
0.50	15.00	2.00	7.5	13.50	3.38	243.16	0.076	24.11	2784.00	2000.00	5051.27	505.13	5556.40	740.85	0.50	39.20	740.85
1.00	16.00	2.00	7.11	20.22	5.06	364.02	0.114	36.09	2784.00	2000.00	5184.11	518.41	5702.52	802.04	1.00	61.90	802.04
1.50	16.50	2.00	6.77	26.31	6.58	473.37	0.148	46.93	2784.00	2000.00	5304.30	530.43	5834.73	861.85	1.50	84.54	861.85
2.00	17.00	2.00	6.48	31.92	7.98	574.08	0.180	56.92	2784.00	2000.00	5415.00	541.50	5956.50	919.21	2.00	107.11	919.21
2.50	17.25	2.00	6.20	37.00	9.25	665.45	0.208	65.98	2784.00	2000.00	5515.43	551.54	6066.97	978.54	2.50	129.77	978.54
3.00	17.50	2.00	5.96	41.76	10.44	751.05	0.235	74.46	2784.00	2000.00	5609.51	560.95	6170.46	1035.31	3.00	152.36	1035.31
3.50	17.75	2.00	5.74	46.18	11.55	830.91	0.260	82.38	2784.00	2000.00	5697.29	569.73	6267.02	1091.82	3.50	175.02	1091.82
4.00	18.00	2.00	5.54	50.32	12.58	905.01	0.283	89.73	2784.00	2000.00	5778.74	577.87	6356.61	1147.4	4.00	197.51	1147.40
4.50	18.25	2.00	5.36	54.24	13.56	975.51	0.305	96.72	2784.00	2000.00	5856.23	585.62	6441.85	1201.84	4.50	220.05	1201.84
5.00	18.50	2.00	5.19	57.90	14.48	1041.69	0.326	103.28	2784.00	2000.00	5928.97	592.90	6521.87	1256.62	5.00	242.67	1256.62
5.50	18.50	2.00	5.02	61.22	15.31	1101.40	0.344	109.20	2784.00	2000.00	5994.60	599.46	6594.06	1313.56	5.50	265.27	1313.56
6.00	18.75	2.00	4.88	64.56	16.14	1161.11	0.363	115.12	2784.00	2000.00	6060.23	606.02	6666.25	1366.03	6.00	287.68	1366.03
6.50	18.85	2.00	4.73	67.49	16.87	1213.63	0.380	120.33	2784.00	2000.00	6117.96	611.80	6729.76	1422.78	6.50	310.22	1422.78
7.00	19.00	2.00	4.61	70.54	17.64	1269.02	0.397	125.82	2784.00	2000.00	6178.84	617.88	6796.72	1474.34	7.00	332.83	1474.34
7.50	19.15	2.00	4.49	73.35	18.34	1319.38	0.413	130.81	2784.00	2000.00	6234.19	623.42	6857.61	1527.31	7.50	355.28	1527.31
8.00	19.30	2.00	4.37	75.92	18.98	1365.42	0.427	135.37	2784.00	2000.00	6284.79	628.48	6913.27	1581.98	8.00	377.77	1581.98
8.50	19.45	2.00	4.27	78.59	19.65	1413.62	0.442	140.15	2784.00	2000.00	6337.77	633.78	6971.55	1632.68	8.50	400.27	1632.68
9.00	19.60	2.00	4.17	81.06	20.27	1458.22	0.456	144.58	2784.00	2000.00	6386.80	638.68	7025.48	1684.77	9.00	422.80	1684.77
9.50	19.80	2.00	4.08	83.52	20.88	1502.11	0.470	148.93	2784.00	2000.00	6435.04	643.50	7078.54	1734.94	9.50	445.13	1734.94
10.00	20.00	2.00	4.00	86.00	21.50	1546.71	0.484	153.35	2784.00	2000.00	6484.06	648.41	7132.47	1783.12	10.00	467.52	1783.12

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@317/ Ltr	Cost of 6 Mazdoor @464/lbr	Hire Charges of Truck@Rs. 2000 per day	Total cost	add 10% Overhead Charges	Gross Total of 12+13	Cost per Trip=(Col 14/4)	Lead in km	Fuel Component	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	1655.34	0.518	164.12	2784.00	2000.00	6603.46	660.35	7263.81	1857.75	11.00	511.87	1857.75
12.00	22.00	2.00	3.83	97.92	24.48	1761.09	0.551	174.60	2784.00	2000.00	6719.69	671.97	7391.66	1929.94	12.00	555.94	1929.94
13.00	23.00	2.00	3.76	103.76	25.94	1866.12	0.584	185.02	2784.00	2000.00	6835.14	683.51	7518.65	1999.64	13.00	600.07	1999.64
14.00	24.00	2.00	3.69	109.32	27.33	1966.12	0.615	194.93	2784.00	2000.00	6945.05	694.51	7639.56	2070.34	14.00	644.22	2070.34
15.00	25.00	2.00	3.64	115.20	28.80	2071.87	0.648	205.42	2784.00	2000.00	7061.29	706.13	7767.42	2133.91	15.00	688.19	2133.91
20.00	25.00	2.00	3.08	129.20	32.30	2323.66	0.727	230.38	2784.00	2000.00	7338.04	733.80	8071.84	2620.73	20.00	912.16	2620.73
25.00	25.00	2.00	2.67	139.50	34.88	2509.27	0.785	248.78	2784.00	2000.00	7542.05	754.21	8296.26	3107.21	25.00	1136.27	3107.21
30.00	30.00	2.00	2.67	166.20	41.55	2989.11	0.935	296.36	2784.00	2000.00	8069.47	806.95	8876.42	3324.5	30.00	1353.56	3324.50
35.00	30.00	2.00	2.40	174.00	43.50	3129.39	0.979	310.26	2784.00	2000.00	8223.65	822.37	9046.02	3769.18	35.00	1576.51	3769.18
40.00	30.00	2.00	2.18	180.40	45.10	3244.49	1.015	321.68	2784.00	2000.00	8350.17	835.02	9185.19	4213.39	40.00	1799.45	4213.39
45.00	30.00	2.00	2.00	186.00	46.50	3345.21	1.046	331.66	2784.00	2000.00	8460.87	846.09	9306.96	4653.48	45.00	2022.28	4653.48
50.00	30.00	1.75	2.04	210.00	52.50	3776.85	1.181	374.46	2784.00	2000.00	8935.31	893.53	9828.84	4818.06	50.00	2238.45	4818.06
60.00	35.00	1.75	2.00	246.00	61.50	4424.31	1.384	438.65	2784.00	2000.00	9646.96	964.70	10611.66	5305.83	60.00	2674.63	5305.83
70.00	35.00	1.75	1.78	255.20	63.80	4589.77	1.436	455.05	2784.00	2000.00	9828.82	982.88	10811.70	6073.99	70.00	3117.59	6073.99
80.00	35.00	1.75	1.60	262.00	65.50	4712.07	1.474	467.18	2784.00	2000.00	9963.25	996.33	10959.58	6849.74	80.00	3560.73	6849.74
90.00	35.00	1.75	1.45	267.00	66.75	4802.00	1.502	476.09	2784.00	2000.00	10062.09	1006.21	11068.30	7633.31	90.00	4004.06	7633.31
100.00	35.00	1.75	1.33	272.00	68.00	4891.92	1.530	485.01	2784.00	2000.00	10160.93	1016.09	11177.02	8403.77	100.00	4447.08	8403.77
125.00	40.00	1.50	1.41	358.50	89.63	6447.98	2.017	639.29	2784.00	2000.00	11871.27	1187.13	13058.40	9261.28	125.00	5529.08	9261.28
150.00	40.00	1.50	1.21	369.00	92.25	6636.47	2.076	657.97	2784.00	2000.00	12078.44	1207.84	13286.28	10980.4	150.00	6631.30	10980.40
175.00	40.00	1.25	1.24	440.00	110.00	7913.40	2.475	784.58	2784.00	2000.00	13481.98	1348.20	14830.18	11959.8	175.00	7715.95	11959.82
200.00	40.00	1.25	1.1	446.00	111.50	8021.31	2.509	795.27	2784.00	2000.00	13600.58	1360.06	14960.64	13600.6	200.00	8816.58	13600.58
250.00	40.00	1.25	0.91	461.00	115.25	8291.09	2.593	822.02	2784.00	2000.00	13897.11	1389.71	15286.82	16798.7	250.00	11015.84	16798.70
300.00	40.00	1.25	0.77	468.00	117.00	8416.98	2.633	834.50	2784.00	2000.00	14035.48	1403.55	15439.03	20050.7	300.00	13216.40	20050.69
350.00	40.00	1.25	0.67	475.00	118.75	8542.88	2.672	846.98	2784.00	2000.00	14173.86	1417.39	15591.25	23270.5	350.00	15416.18	23270.52
400.00	40.00	1.25	0.59	478.00	119.50	8596.83	2.689	852.33	2784.00	2000.00	14233.16	1423.32	15656.48	26536.4	400.00	17617.08	26536.41
500.00	40.00	1.25	0.48	486.00	121.50	8740.71	2.734	866.60	2784.00	2000.00	14391.31	1439.13	15830.44	32980.1	500.00	22016.75	32980.08
600.00	40.00	1.25	0.41	498.00	124.50	8956.53	2.801	888.00	2784.00	2000.00	14628.53	1462.85	16091.38	39247.3	600.00	26412.15	39247.27
700.00	40.00	1.25	0.35	496.00	124.00	8920.56	2.790	884.43	2784.00	2000.00	14588.99	1458.90	16047.89	45851.1	700.00	30815.68	45851.11
800.00	40.00	1.25	0.31	502.00	125.50	9028.47	2.824	895.13	2784.00	2000.00	14707.60	1470.76	16178.36	52188.3	800.00	35212.77	52188.26
900.00	40.00	1.25	0.27	492.00	123.00	8848.62	2.768	877.30	2784.00	2000.00	14509.92	1450.99	15960.91	59114.5	900.00	39624.12	59114.48
1000.00	40.00	1.25	0.25	506.00	126.50	9100.41	2.846	902.26	2784.00	2000.00	14786.67	1478.67	16265.34	65061.4	1000.00	44011.75	65061.36

STATEMENT - C 1 (With Manual Loading)

For 2018-2019 Maharashtra

Cost of Diesel (Avg cost in 2018)

71.94 Per Litre

Cost of Oil (As on 28-06-18)

317 Per Litre

Labour Charges of mazdoor

464 Per Labour

Lead in km	Cost Per Trip Lead Charges	Fuel Component	ConcreteBlock (FORM)		Cement, Lime, Stone Block, GI, CI, 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	
			Unit Cum		Unit MT.		Unit 1000 Nos		Unit Cum		Unit MT.		Unit Sqm		Unit MT.	
			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		3.105	Fuel Comp.	5		10.00		100		50	
0.50	740.85	39.20	105.84	5.60	74.09	3.92	238.60	19.60	148.17	8.00	74.09	3.92	7.41	0.39	14.82	0.78
1.00	802.04	61.90	114.58	8.84	80.20	6.19	258.31	30.95	160.41	12.00	80.20	6.19	8.02	0.62	16.04	1.24
1.50	861.85	84.54	123.12	12.08	86.19	8.45	277.57	42.27	172.37	17.00	86.19	8.45	8.62	0.85	17.24	1.69
2.00	919.21	107.11	131.32	15.30	91.92	10.71	296.04	53.56	183.84	21.00	91.92	10.71	9.19	1.07	18.38	2.14
2.50	978.54	129.77	139.79	18.54	97.85	12.98	315.15	64.89	195.71	26.00	97.85	12.98	9.79	1.30	19.57	2.60
3.00	1035.31	152.36	147.90	21.77	103.53	15.24	333.43	76.18	207.06	30.00	103.53	15.24	10.35	1.52	20.71	3.05
3.50	1091.82	175.02	155.97	25.00	109.18	17.50	351.63	87.51	218.36	35.00	109.18	17.50	10.92	1.75	21.84	3.50
4.00	1147.40	197.51	163.91	28.22	114.74	19.75	369.53	98.76	229.48	40.00	114.74	19.75	11.47	1.98	22.95	3.95
4.50	1201.84	220.05	171.69	31.44	120.18	22.01	387.07	110.03	240.37	44.00	120.18	22.01	12.02	2.20	24.04	4.40
5.00	1256.62	242.67	179.52	34.67	125.66	24.27	404.71	121.34	251.32	49.00	125.66	24.27	12.57	2.43	25.13	4.85
5.50	1313.56	265.27	187.65	37.90	131.36	26.53	423.05	132.64	262.71	53.00	131.36	26.53	13.14	2.65	26.27	5.31
6.00	1366.03	287.68	195.15	41.10	136.60	28.77	439.95	143.84	273.21	58.00	136.60	28.77	13.66	2.88	27.32	5.75
6.50	1422.78	310.22	203.25	44.32	142.28	31.02	458.22	155.11	284.56	62.00	142.28	31.02	14.23	3.10	28.46	6.20
7.00	1474.34	332.83	210.62	47.55	147.43	33.28	474.83	166.42	294.87	67.00	147.43	33.28	14.74	3.33	29.49	6.66
7.50	1527.31	355.28	218.19	50.75	152.73	35.53	491.89	177.64	305.46	71.00	152.73	35.53	15.27	3.55	30.55	7.11
8.00	1581.98	377.77	226.00	53.97	158.20	37.78	509.49	188.89	316.40	76.00	158.20	37.78	15.82	3.78	31.64	7.56
8.50	1632.68	400.27	233.24	57.18	163.27	40.03	525.82	200.14	326.54	80.00	163.27	40.03	16.33	4.00	32.65	8.01
9.00	1684.77	422.80	240.68	60.40	168.48	42.28	542.60	211.40	336.95	85.00	168.48	42.28	16.85	4.23	33.70	8.46

Lead in km	Cost Per Trip Lead Charges	Fuel Component	ConcreteBlock (FORM)		Cement, Lime, Stone Block, GI, CI, 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	
			Unit Cum		Unit MT.		Unit 1000 Nos		Unit Cum		Unit MT.		Unit Sqm		Unit MT.	
			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	3.105	Fuel Comp.	5	Fuel Comp.	10.00	Fuel Comp.	100	Fuel Comp.	50	Fuel Comp.		
9.50	1734.94	445.13	247.85	63.59	173.49	44.51	558.76	222.57	346.99	89.00	173.49	44.51	17.35	4.45	34.70	8.90
10.00	1783.12	467.52	254.73	66.79	178.31	46.75	574.27	233.76	356.62	94.00	178.31	46.75	17.83	4.68	35.66	9.35
11.00	1857.75	511.87	265.39	73.12	185.78	51.19	598.31	255.94	371.55	102.00	185.78	51.19	18.58	5.12	37.16	10.24
12.00	1929.94	555.94	275.71	79.42	192.99	55.59	621.56	277.97	385.99	111.00	192.99	55.59	19.30	5.56	38.60	11.12
13.00	1999.64	600.07	285.66	85.72	199.96	60.01	644.01	300.04	399.93	120.00	199.96	60.01	20.00	6.00	39.99	12.00
14.00	2070.34	644.22	295.76	92.03	207.03	64.42	666.78	322.11	414.07	129.00	207.03	64.42	20.70	6.44	41.41	12.88
15.00	2133.91	688.19	304.84	98.31	213.39	68.82	687.25	344.10	426.78	138.00	213.39	68.82	21.34	6.88	42.68	13.76
20.00	2620.73	912.16	374.39	130.31	262.07	91.22	844.04	456.08	524.15	182.00	262.07	91.22	26.21	9.12	52.41	18.24
25.00	3107.21	1136.27	443.89	162.32	310.72	113.63	1000.71	568.14	621.44	227.00	310.72	113.63	31.07	11.36	62.14	22.73
30.00	3324.50	1353.56	474.93	193.37	332.45	135.36	1070.69	676.78	664.90	271.00	332.45	135.36	33.25	13.54	66.49	27.07
35.00	3769.18	1576.51	538.45	225.22	376.92	157.65	1213.91	788.26	753.84	315.00	376.92	157.65	37.69	15.77	75.38	31.53
40.00	4213.39	1799.45	601.91	257.06	421.34	179.95	1356.97	899.73	842.68	360.00	421.34	179.95	42.13	17.99	84.27	35.99
45.00	4653.48	2022.28	664.78	288.90	465.35	202.23	1498.71	1011.14	930.70	404.00	465.35	202.23	46.53	20.22	93.07	40.45
50.00	4818.06	2238.45	688.29	319.78	481.81	223.85	1551.71	1119.23	963.61	448.00	481.81	223.85	48.18	22.38	96.36	44.77
60.00	5305.83	2674.63	757.98	382.09	530.58	267.46	1708.80	1337.32	1061.17	535.00	530.58	267.46	53.06	26.75	106.12	53.49
70.00	6073.99	3117.59	867.71	445.37	607.40	311.76	1956.20	1558.80	1214.80	624.00	607.40	311.76	60.74	31.18	121.48	62.35
80.00	6849.74	3560.73	978.53	508.68	684.97	356.07	2206.04	1780.37	1369.95	712.00	684.97	356.07	68.50	35.61	136.99	71.21
90.00	7633.31	4004.06	1090.47	572.01	763.33	400.41	2458.39	2002.03	1526.66	801.00	763.33	400.41	76.33	40.04	152.67	80.08
100.00	8403.77	4447.08	1200.54	635.30	840.38	444.71	2706.53	2223.54	1680.75	889.00	840.38	444.71	84.04	44.47	168.08	88.94
125.00	9261.28	5529.08	1323.04	789.87	926.13	552.91	2982.70	2764.54	1852.26	1106.00	926.13	552.91	92.61	55.29	185.23	110.58
150.00	10980.40	6631.30	1568.63	947.33	1098.04	663.13	3536.36	3315.65	2196.08	1326.00	1098.04	663.13	109.80	66.31	219.61	132.63
175.00	11959.82	7715.95	1708.55	1102.28	1195.98	771.60	3851.79	3857.98	2391.96	1543.00	1195.98	771.60	119.60	77.16	239.20	154.32
200.00	13600.58	8816.58	1942.94	1259.51	1360.06	881.66	4380.22	4408.29	2720.12	1763.00	1360.06	881.66	136.01	88.17	272.01	176.33
250.00	16798.70	11015.84	2399.81	1573.69	1679.87	1101.58	5410.21	5507.92	3359.74	2203.00	1679.87	1101.58	167.99	110.16	335.97	220.32

Lead in km	Cost Per Trip Lead Charges	Fuel Component	ConcreteBlock (FORM)		Cement, Lime, Stone Block, GI, CI, 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	
			Unit Cum		Unit MT.		Unit 1000 Nos		Unit Cum		Unit MT.		Unit Sqm		Unit MT.	
			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	3.105	Fuel Comp.	5	Fuel Comp.	10.00	Fuel Comp.	100	Fuel Comp.	50	Fuel Comp.		
300.00	20050.69	13216.40	2864.38	1888.06	2005.07	1321.64	6457.55	6608.20	4010.14	2643.00	2005.07	1321.64	200.51	132.16	401.01	264.33
350.00	23270.52	15416.18	3324.36	2202.31	2327.05	1541.62	7494.53	7708.09	4654.10	3083.00	2327.05	1541.62	232.71	154.16	465.41	308.32
400.00	26536.41	17617.08	3790.92	2516.73	2653.64	1761.71	8546.35	8808.54	5307.28	3523.00	2653.64	1761.71	265.36	176.17	530.73	352.34
500.00	32980.08	22016.75	4711.44	3145.25	3298.01	2201.68	10621.60	11008.38	6596.02	4403.00	3298.01	2201.68	329.80	220.17	659.60	440.34
600.00	39247.27	26412.15	5606.75	3773.16	3924.73	2641.22	12640.02	13206.08	7849.45	5282.00	3924.73	2641.22	392.47	264.12	784.95	528.24
700.00	45851.11	30815.68	6550.16	4402.24	4585.11	3081.57	14766.86	15407.84	9170.22	6163.00	4585.11	3081.57	458.51	308.16	917.02	616.31
800.00	52188.26	35212.77	7455.47	5030.40	5218.83	3521.28	16807.81	17606.39	10437.65	7043.00	5218.83	3521.28	521.88	352.13	1043.77	704.26
900.00	59114.48	39624.12	8444.93	5660.59	5911.45	3962.41	19038.48	19812.06	11822.90	7925.00	5911.45	3962.41	591.14	396.24	1182.29	792.48
1000.00	65061.36	44011.75	9294.48	6287.39	6506.14	4401.18	20953.74	22005.88	13012.27	8802.00	6506.14	4401.18	650.61	440.12	1301.23	880.24

SSR 2018-19 Lead Charges for truck load 10.0 MT

Cost of Diesel 71.94 Per Litre

Cost of mobile Oil 317 Per Litre

Hire Charges of Loader 569 Per Trip

Hire charges of Truck 2000 Per day

Lead in km	Cost Per Trip	Fuel Component	Lead Charges for NP-2 class pipe															
			300.mm		450mm		600mm		800mm		900mm		1000mm		1200mm		1800mm	
Unit			Rgm		Rgm		Rgm		Rgm		Rgm		Rgm		Rgm		Rgm	
Load Fact			87.50	Fuel	62.5	Fuel	37.5	Fuel	27.50	Fuel	22.50	Fuel	12.5	Fuel	10	Fuel	5.00	Fuel
0.50	901.53	39.20	10.30	0.45	14.42	0.63	24.04	1.05	32.78	1.43	40.07	1.74	72.12	3.14	90.15	3.92	180.31	7.84
1.00	940.33	61.91	10.75	0.71	15.05	0.99	25.08	1.65	34.19	2.25	41.79	2.75	75.23	4.95	94.03	6.19	188.07	12.38
1.50	978.50	84.54	11.18	0.97	15.66	1.35	26.09	2.25	35.58	3.07	43.49	3.76	78.28	6.76	97.85	8.45	195.70	16.91
2.00	1015.64	107.14	11.61	1.22	16.25	1.71	27.08	2.86	36.93	3.90	45.14	4.76	81.25	8.57	101.56	10.71	203.13	21.43
2.50	1053.60	129.76	12.04	1.48	16.86	2.08	28.10	3.46	38.31	4.72	46.83	5.77	84.29	10.38	105.36	12.98	210.72	25.95
3.00	1090.49	152.37	12.46	1.74	17.45	2.44	29.08	4.06	39.65	5.54	48.47	6.77	87.24	12.19	109.05	15.24	218.10	30.47
3.50	1127.30	175.03	12.88	2.00	18.04	2.80	30.06	4.67	40.99	6.36	50.10	7.78	90.18	14.00	112.73	17.50	225.46	35.01
4.00	1163.62	197.51	13.30	2.26	18.62	3.16	31.03	5.27	42.31	7.18	51.72	8.78	93.09	15.80	116.36	19.75	232.72	39.50
4.50	1199.49	220.04	13.71	2.51	19.19	3.52	31.99	5.87	43.62	8.00	53.31	9.78	95.96	17.60	119.95	22.00	239.90	44.01
5.00	1235.58	242.68	14.12	2.77	19.77	3.88	32.95	6.47	44.93	8.82	54.91	10.79	98.85	19.41	123.56	24.27	247.12	48.54
6.00	1307.48	287.66	14.94	3.29	20.92	4.60	34.87	7.67	47.54	10.46	58.11	12.78	104.60	23.01	130.75	28.77	261.50	57.53
7.00	1379.06	332.83	15.76	3.80	22.06	5.33	36.77	8.88	50.15	12.10	61.29	14.79	110.32	26.63	137.91	33.28	275.81	66.57
8.00	1450.20	377.77	16.57	4.32	23.20	6.04	38.67	10.07	52.73	13.74	64.45	16.79	116.02	30.22	145.02	37.78	290.04	75.55
9.00	1519.37	422.79	17.36	4.83	24.31	6.76	40.52	11.27	55.25	15.37	67.53	18.79	121.55	33.82	151.94	42.28	303.87	84.56

Lead in km	Cost Per Trip Lead Charges	Fuel Component	Lead Charges for NP-2 class pipe															
			300.mm		450mm		600mm		800mm		900mm		1000mm		1200mm		1800mm	
Unit			Rgm		Rgm		Rgm		Rgm		Rgm		Rgm		Rgm		Rgm	
Load Fact			87.50	Fuel	62.5	Fuel	37.5	Fuel	27.50	Fuel	22.50	Fuel	12.5	Fuel	10	Fuel	5.00	Fuel
10.00	1586.54	467.54	18.13	5.34	25.38	7.48	42.31	12.47	57.69	17.00	70.51	20.78	126.92	37.40	158.65	46.75	317.31	93.51
15.00	1861.59	688.19	21.28	7.87	29.79	11.01	49.64	18.35	67.69	25.03	82.74	30.59	148.93	55.06	186.16	68.82	372.32	137.64
20.00	2195.47	912.19	25.09	10.43	35.13	14.60	58.55	24.33	79.84	33.17	97.58	40.54	175.64	72.98	219.55	91.22	439.09	182.44
25.00	2529.27	1136.30	28.91	12.99	40.47	18.18	67.45	30.30	91.97	41.32	112.41	50.50	202.34	90.90	252.93	113.63	505.85	227.26
30.00	2746.55	1353.58	31.39	15.47	43.94	21.66	73.24	36.10	99.87	49.22	122.07	60.16	219.72	108.29	274.66	135.36	549.31	270.72
35.00	3062.21	1576.54	35.00	18.02	49.00	25.22	81.66	42.04	111.35	57.33	136.10	70.07	244.98	126.12	306.22	157.65	612.44	315.31
40.00	3377.66	1799.48	38.60	20.57	54.04	28.79	90.07	47.99	122.82	65.44	150.12	79.98	270.21	143.96	337.77	179.95	675.53	359.90
45.00	3691.24	2022.23	42.19	23.11	59.06	32.36	98.43	53.93	134.23	73.54	164.06	89.88	295.30	161.78	369.12	202.22	738.25	404.45
50.00	3885.84	2238.41	44.41	25.58	62.17	35.81	103.62	59.69	141.30	81.40	172.70	99.48	310.87	179.07	388.58	223.84	777.17	447.68
60.00	4343.67	2674.67	49.64	30.57	69.50	42.79	115.83	71.32	157.95	97.26	193.05	118.87	347.49	213.97	434.37	267.47	868.73	534.93
70.00	4922.64	3117.68	56.26	35.63	78.76	49.88	131.27	83.14	179.01	113.37	218.78	138.56	393.81	249.41	492.26	311.77	984.53	623.54
80.00	5504.79	3560.79	62.91	40.69	88.08	56.97	146.79	94.95	200.17	129.48	244.66	158.26	440.38	284.86	550.48	356.08	1100.96	712.16
90.00	6090.34	4004.10	69.60	45.76	97.45	64.07	162.41	106.78	221.47	145.60	270.68	177.96	487.23	320.33	609.03	400.41	1218.07	800.82
100.00	6670.22	4447.08	76.23	50.82	106.72	71.15	177.87	118.59	242.55	161.71	296.45	197.65	533.62	355.77	667.02	444.71	1334.04	889.42
125.00	7658.44	5529.15	87.53	63.19	122.54	88.47	204.23	147.44	278.49	201.06	340.38	245.74	612.68	442.33	765.84	552.92	1531.69	1105.83
150.00	9018.60	6631.42	103.07	75.79	144.30	106.10	240.50	176.84	327.95	241.14	400.83	294.73	721.49	530.51	901.86	663.14	1803.72	1326.28
175.00	10059.15	7715.95	114.96	88.18	160.95	123.46	268.24	205.76	365.79	280.58	447.07	342.93	804.73	617.28	1005.92	771.60	2011.83	1543.19
200.00	11385.66	8816.66	130.12	100.76	182.17	141.07	303.62	235.11	414.02	320.61	506.03	391.85	910.85	705.33	1138.57	881.67	2277.13	1763.33

SSR 2018-19 Lead Charges for truck load 10.0 MT

Cost of Diesel 71.94 Per Litre
 Cost of mobile Oil 317 Per Litre
 Hire Charges of Loader 569 Per Trip
 Hire charges of Truck 2000 Per day

Lead in km	Cost Per Trip	Fuel Component	Lead Charges for NP-3 class pipe															
			300mm		450mm		600mm		800mm		900mm		1000mm		1200mm		1800mm	
Unit			Rgm	Fuel	Rgm	Fuel	Rgm	Fuel	Rgm	Fuel	Rgm	Fuel	Rgm	Fuel	Rgm	Fuel	Rgm	Fuel
Load Factor			75.00	Fuel	32.5	Fuel	22.5	Fuel	15.00	Fuel	12.50	Fuel	10	Fuel	7.5	Fuel	5.00	Fuel
0.50	901.53	39.20	12.02	0.52	27.74	1.21	40.07	1.74	60.10	2.61	72.12	3.14	90.15	3.92	120.20	5.23	180.31	7.84
1.00	940.33	61.91	12.54	0.83	28.93	1.90	41.79	2.75	62.69	4.13	75.23	4.95	94.03	6.19	125.38	8.25	188.07	12.38
1.50	978.50	84.54	13.05	1.13	30.11	2.60	43.49	3.76	65.23	5.64	78.28	6.76	97.85	8.45	130.47	11.27	195.70	16.91
2.00	1015.64	107.14	13.54	1.43	31.25	3.30	45.14	4.76	67.71	7.14	81.25	8.57	101.56	10.71	135.42	14.29	203.13	21.43
2.50	1053.60	129.76	14.05	1.73	32.42	3.99	46.83	5.77	70.24	8.65	84.29	10.38	105.36	12.98	140.48	17.30	210.72	25.95
3.00	1090.49	152.37	14.54	2.03	33.55	4.69	48.47	6.77	72.70	10.16	87.24	12.19	109.05	15.24	145.40	20.32	218.10	30.47
3.50	1127.30	175.03	15.03	2.33	34.69	5.39	50.10	7.78	75.15	11.67	90.18	14.00	112.73	17.50	150.31	23.34	225.46	35.01
4.00	1163.62	197.51	15.51	2.63	35.80	6.08	51.72	8.78	77.57	13.17	93.09	15.80	116.36	19.75	155.15	26.33	232.72	39.50
4.50	1199.49	220.04	15.99	2.93	36.91	6.77	53.31	9.78	79.97	14.67	95.96	17.60	119.95	22.00	159.93	29.34	239.90	44.01
5.00	1235.58	242.68	16.47	3.24	38.02	7.47	54.91	10.79	82.37	16.18	98.85	19.41	123.56	24.27	164.74	32.36	247.12	48.54
6.00	1307.48	287.66	17.43	3.84	40.23	8.85	58.11	12.78	87.17	19.18	104.60	23.01	130.75	28.77	174.33	38.35	261.50	57.53
7.00	1379.06	332.83	18.39	4.44	42.43	10.24	61.29	14.79	91.94	22.19	110.32	26.63	137.91	33.28	183.87	44.38	275.81	66.57
8.00	1450.20	377.77	19.34	5.04	44.62	11.62	64.45	16.79	96.68	25.18	116.02	30.22	145.02	37.78	193.36	50.37	290.04	75.55
9.00	1519.37	422.79	20.26	5.64	46.75	13.01	67.53	18.79	101.29	28.19	121.55	33.82	151.94	42.28	202.58	56.37	303.87	84.56
10.00	1586.54	467.54	21.15	6.23	48.82	14.39	70.51	20.78	105.77	31.17	126.92	37.40	158.65	46.75	211.54	62.34	317.31	93.51
15.00	1861.59	688.19	24.82	9.18	57.28	21.18	82.74	30.59	124.11	45.88	148.93	55.06	186.16	68.82	248.21	91.76	372.32	137.64

Lead in km	Cost Per Trip Lead Charges	Fuel Component	Lead Charges for NP-3 class pipe															
			300mm		450mm		600mm		800mm		900mm		1000mm		1200mm		1800mm	
Unit			Rgm		Rgm		Rgm		Rgm		Rgm		Rgm		Rgm		Rgm	
Load Factor			75.00	Fuel	32.5	Fuel	22.5	Fuel	15.00	Fuel	12.50	Fuel	10	Fuel	7.5	Fuel	5.00	Fuel
20.00	2195.47	912.19	29.27	12.16	67.55	28.07	97.58	40.54	146.36	60.81	175.64	72.98	219.55	91.22	292.73	121.63	439.09	182.44
25.00	2529.27	1136.30	33.72	15.15	77.82	34.96	112.41	50.50	168.62	75.75	202.34	90.90	252.93	113.63	337.24	151.51	505.85	227.26
30.00	2746.55	1353.58	36.62	18.05	84.51	41.65	122.07	60.16	183.10	90.24	219.72	108.29	274.66	135.36	366.21	180.48	549.31	270.72
35.00	3062.21	1576.54	40.83	21.02	94.22	48.51	136.10	70.07	204.15	105.10	244.98	126.12	306.22	157.65	408.29	210.21	612.44	315.31
40.00	3377.66	1799.48	45.04	23.99	103.93	55.37	150.12	79.98	225.18	119.97	270.21	143.96	337.77	179.95	450.35	239.93	675.53	359.90
45.00	3691.24	2022.23	49.22	26.96	113.58	62.22	164.06	89.88	246.08	134.82	295.30	161.78	369.12	202.22	492.17	269.63	738.25	404.45
50.00	3885.84	2238.41	51.81	29.85	119.56	68.87	172.70	99.48	259.06	149.23	310.87	179.07	388.58	223.84	518.11	298.45	777.17	447.68
60.00	4343.67	2674.67	57.92	35.66	133.65	82.30	193.05	118.87	289.58	178.31	347.49	213.97	434.37	267.47	579.16	356.62	868.73	534.93
70.00	4922.64	3117.68	65.64	41.57	151.47	95.93	218.78	138.56	328.18	207.85	393.81	249.41	492.26	311.77	656.35	415.69	984.53	623.54
80.00	5504.79	3560.79	73.40	47.48	169.38	109.56	244.66	158.26	366.99	237.39	440.38	284.86	550.48	356.08	733.97	474.77	1100.96	712.16
90.00	6090.34	4004.10	81.20	53.39	187.40	123.20	270.68	177.96	406.02	266.94	487.23	320.33	609.03	400.41	812.05	533.88	1218.07	800.82
100.00	6670.22	4447.08	88.94	59.29	205.24	136.83	296.45	197.65	444.68	296.47	533.62	355.77	667.02	444.71	889.36	592.94	1334.04	889.42
125.00	7658.44	5529.15	102.11	73.72	235.64	170.13	340.38	245.74	510.56	368.61	612.68	442.33	765.84	552.92	1021.13	737.22	1531.69	1105.83
150.00	9018.60	6631.42	120.25	88.42	277.50	204.04	400.83	294.73	601.24	442.09	721.49	530.51	901.86	663.14	1202.48	884.19	1803.72	1326.28
175.00	10059.15	7715.95	134.12	102.88	309.51	237.41	447.07	342.93	670.61	514.40	804.73	617.28	1005.92	771.60	1341.22	1028.79	2011.83	1543.19
200.00	11385.66	8816.66	151.81	117.56	350.33	271.28	506.03	391.85	759.04	587.78	910.85	705.33	1138.57	881.67	1518.09	1175.55	2277.13	1763.33

SSR 2018-19 Lead Charges for truck load 10.0 MT

Cost of Diesel 71.94 Per Litre
 Cost of mobile Oil 317 Per Litre
 Hire Charges of Loader 569 Per Trip
 Hire charges of Truck 2000 Per day

Lead in km	Cost Per Trip Lead Charges	Fuel Component	Lead Charges for NP-4 class pipe															
			300.mm		450mm		600mm		800mm		900mm		1000mm		1200mm		1800mm	
Unit			Rgm		Rgm		Rgm		Rgm		Rgm		Rgm		Rgm		Rgm	
Load Fact				Fuel		Fuel	22.5	Fuel	15.00	Fuel	12.50	Fuel	10	Fuel	7.5	Fuel	5.00	Fuel
0.50	901.53	39.20	-	-	-	-	40.07	1.74	60.10	2.61	72.12	3.14	90.15	3.92	120.20	5.23	180.31	7.84
1.00	940.33	61.91	-	-	-	-	41.79	2.75	62.69	4.13	75.23	4.95	94.03	6.19	125.38	8.25	188.07	12.38
1.50	978.50	84.54	-	-	-	-	43.49	3.76	65.23	5.64	78.28	6.76	97.85	8.45	130.47	11.27	195.70	16.91
2.00	1015.64	107.14	-	-	-	-	45.14	4.76	67.71	7.14	81.25	8.57	101.56	10.71	135.42	14.29	203.13	21.43
2.50	1053.60	129.76	-	-	-	-	46.83	5.77	70.24	8.65	84.29	10.38	105.36	12.98	140.48	17.30	210.72	25.95
3.00	1090.49	152.37	-	-	-	-	48.47	6.77	72.70	10.16	87.24	12.19	109.05	15.24	145.40	20.32	218.10	30.47
3.50	1127.30	175.03	-	-	-	-	50.10	7.78	75.15	11.67	90.18	14.00	112.73	17.50	150.31	23.34	225.46	35.01
4.00	1163.62	197.51	-	-	-	-	51.72	8.78	77.57	13.17	93.09	15.80	116.36	19.75	155.15	26.33	232.72	39.50
4.50	1199.49	220.04	-	-	-	-	53.31	9.78	79.97	14.67	95.96	17.60	119.95	22.00	159.93	29.34	239.90	44.01
5.00	1235.58	242.68	-	-	-	-	54.91	10.79	82.37	16.18	98.85	19.41	123.56	24.27	164.74	32.36	247.12	48.54
6.00	1307.48	287.66	-	-	-	-	58.11	12.78	87.17	19.18	104.60	23.01	130.75	28.77	174.33	38.35	261.50	57.53
7.00	1379.06	332.83	-	-	-	-	61.29	14.79	91.94	22.19	110.32	26.63	137.91	33.28	183.87	44.38	275.81	66.57
8.00	1450.20	377.77	-	-	-	-	64.45	16.79	96.68	25.18	116.02	30.22	145.02	37.78	193.36	50.37	290.04	75.55
9.00	1519.37	422.79	-	-	-	-	67.53	18.79	101.29	28.19	121.55	33.82	151.94	42.28	202.58	56.37	303.87	84.56
10.00	1586.54	467.54	-	-	-	-	70.51	20.78	105.77	31.17	126.92	37.40	158.65	46.75	211.54	62.34	317.31	93.51
15.00	1861.59	688.19	-	-	-	-	82.74	30.59	124.11	45.88	148.93	55.06	186.16	68.82	248.21	91.76	372.32	137.64

Lead in km	Cost Per Trip Lead Charges	Fuel Component	Lead Charges for NP-4 class pipe															
			300.mm		450mm		600mm		800mm		900mm		1000mm		1200mm		1800mm	
Unit			Rgm		Rgm		Rgm		Rgm		Rgm		Rgm		Rgm		Rgm	
Load Fact				Fuel		Fuel	22.5	Fuel	15.00	Fuel	12.50	Fuel	10	Fuel	7.5	Fuel	5.00	Fuel
20.00	2195.47	912.19	-	-	-	-	97.58	40.54	146.36	60.81	175.64	72.98	219.55	91.22	292.73	121.63	439.09	182.44
25.00	2529.27	1136.30	-	-	-	-	112.41	50.50	168.62	75.75	202.34	90.90	252.93	113.63	337.24	151.51	505.85	227.26
30.00	2746.55	1353.58	-	-	-	-	122.07	60.16	183.10	90.24	219.72	108.29	274.66	135.36	366.21	180.48	549.31	270.72
35.00	3062.21	1576.54	-	-	-	-	136.10	70.07	204.15	105.10	244.98	126.12	306.22	157.65	408.29	210.21	612.44	315.31
40.00	3377.66	1799.48	-	-	-	-	150.12	79.98	225.18	119.97	270.21	143.96	337.77	179.95	450.35	239.93	675.53	359.90
45.00	3691.24	2022.23	-	-	-	-	164.06	89.88	246.08	134.82	295.30	161.78	369.12	202.22	492.17	269.63	738.25	404.45
50.00	3885.84	2238.41	-	-	-	-	172.70	99.48	259.06	149.23	310.87	179.07	388.58	223.84	518.11	298.45	777.17	447.68
60.00	4343.67	2674.67	-	-	-	-	193.05	118.87	289.58	178.31	347.49	213.97	434.37	267.47	579.16	356.62	868.73	534.93
70.00	4922.64	3117.68	-	-	-	-	218.78	138.56	328.18	207.85	393.81	249.41	492.26	311.77	656.35	415.69	984.53	623.54
80.00	5504.79	3560.79	-	-	-	-	244.66	158.26	366.99	237.39	440.38	284.86	550.48	356.08	733.97	474.77	1100.96	712.16
90.00	6090.34	4004.10	-	-	-	-	270.68	177.96	406.02	266.94	487.23	320.33	609.03	400.41	812.05	533.88	1218.07	800.82
100.00	6670.22	4447.08	-	-	-	-	296.45	197.65	444.68	296.47	533.62	355.77	667.02	444.71	889.36	592.94	1334.04	889.42
125.00	7658.44	5529.15	-	-	-	-	340.38	245.74	510.56	368.61	612.68	442.33	765.84	552.92	1021.13	737.22	1531.69	1105.83
150.00	9018.60	6631.42	-	-	-	-	400.83	294.73	601.24	442.09	721.49	530.51	901.86	663.14	1202.48	884.19	1803.72	1326.28
175.00	10059.15	7715.95	-	-	-	-	447.07	342.93	670.61	514.40	804.73	617.28	1005.92	771.60	1341.22	1028.79	2011.83	1543.19
200.00	11385.66	8816.66	-	-	-	-	506.03	391.85	759.04	587.78	910.85	705.33	1138.57	881.67	1518.09	1175.55	2277.13	1763.33

THEORITICAL REQUIREMENT OF MATERIALS BUILDING

EXCAVATION

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

PILE FOUNDATION

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

PLAIN CEMENT CONCRETE AND REINFORCED CEMENT CONCRETE

Sr. No.	Item	Unit	Cement in bags	Screened sand in M ³	Course Aggregate		
					40mm in M ³	20mm in M ³	12/10mm in M ³
1	Plain cement concrete 1:5:10	M ³	2.60	0.47	0.7	0.24	-
2	Plain cement concrete 1:4:8	M ³	3.40	0.47	0.7	0.24	-
3	Plain cement concrete 1:3:6	M ³	4.40	0.47	0.7	0.24	-
4	Plain cement concrete 1:2:4	M ³	6.40	0.445	0.7	0.22	0.11
5	M-10 grade cement concrete	M ³	4.40	0.47	0.7	0.24	-
6	M-15 grade PCC	M ³	6.00	0.44	0.56	0.22	0.11
7	M-20 grade PCC	M ³	7.00	0.425	0.56	0.22	0.11
8	M-15 grade cement concrete	M ³	6.00	0.425	-	0.67	0.22
9	M-20 grade cement concrete	M ³	7.00	0.425	-	0.57	0.28
10	M-25 cement concrete	M ³	7.50	0.425	-	0.57	0.28
11	M-30 grade cement concrete	M ³	8.00	0.425	-	0.57	0.28
12	M-35 grade cement concrete	M ³	8.25	0.425	-	0.57	0.28
13	P & F RCC Jali 50mm thick	M ²	0.06	-	-	-	-
14	P & L 50mm thick cement mortar layer in 1:8 proportion	M ²	0.22	0.06	-	-	-
	M-40 grade	M ³	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 ³	1.24	0.25	475	-
2	Second class brick work in CM 1:6 in foundation and plinth of inner wall / external wall.	M ³	1.58	0.32	475	-
3	Second class brick work in CM 1:4 with pointing in CM 1:3 to exposed faces.	M ³	1.42	0.254	475	-
4	First class brick work in CM 1:6 in Superstructure	M ³	1.24	0.25	475	-
5	Second class brick work in CM 1:6 in superstructure	M ³	1.58	0.32	475	-
6	Second class brick work in CM 1:8 in superstructure	M ³	1.12	0.32	475	-
7	Second class brick work in CM 1:6 as backing in composite masonry	M ³	1.58	0.32	475	-
8	Second class half brick masonry in CM 1:4 with 6mm diameter M.S. Bars	M ²	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 ²	0.21	0.021	38	1.32
10	First class brick masonry in CM 1:4 for pillars rectangular in shape	M ³	2.60	0.25	475	-
11	First class brick masonry in CM 1:4 for pillars curved in shape	M ³	2.60	0.25	616	-
12	Second class brick masonry in CM 1:4 for pillars rectangular in shape	M ³	2.60	0.25	475	-
13	Second class brick masonry in CM 1:4 for pillars curved in shape	M ³	2.60	0.25	616	-
14	Second class brick masonry coping in CM 1:6	M ³	1.24	0.25	475	-
15	Fire brick masonry in fire clay 1:5 proportion	M ³	-	-	480	Fire clay in Mortar in M ³ 0.10

Stone masonry

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

Sr. No.	Item	Unit	Cement in bags	Screened sand in M3	Trap Rubble in M ³	Corner/Quins in Nos	Trap Header in Nos	Khandki in Nos
10	CR masonry 2nd sort in CM 1:6 in plinth	M ³	1.70	0.35	0.35	2	7	50
11	CR masonry 2nd sort in CM 1:6 in Superstructure	M ³	1.70	0.35	0.35	2	7	50
12	CR masonry 1st sort in CM 1:6 in plinth	M ³	1.50	0.30	0.35	2	7	50
13	CR masonry 1st sort in CM 1:6 in Superstructure	M ³	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 ³	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 ³	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 ³	1.02	0.21	45
17	Laterite masonry in CM 1:6 in Superstructure	M ³	1.02	0.21	45

WATER PROOFING TREATMENT

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

PLASTERING & POINTING

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

PAVING AND FLOORING

Sr. No.	Item	Unit	Cement in bags	Screened Sand in M ³
1	Rough shahabad flooring 25 to 30mm thick on bed of 1:6 CM with CP 1:3	M ²	0.135	0.022
2	Rough shahabad flooring 40 to 50mm thick on bed of 1:6 CM with CP 1:3	M ²	0.14	0.022
3	Rough shahabad flooring 50 to 60mm thick on bed of 1:6 CM with CP 1:3	M ²	0.15	0.022
4	Rough shahabad flooring 12 to 20mm thick on bed of 1:6 CM with CP 1:3	M ²	0.135	0.022
5	Polished shahabad/tandur/kotah stone flooring 25 to 30mm thick on bed of 1:6 CM	M ²	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 ²	0.135	0.022
7	Polished shahabad/tandur/kotah stone flooring 25 to 30mm thick for dado on 1:4 cement mortar plaster	M ²	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 ²	0.334	0.020	0.023	0.007
9	IPS flooring in 1:2:3 proportion 50mm thick	M ²	0.406	0.025	0.028	0.010
10	IPS flooring in 1:2:4 proportion 40mm thick	M ²	0.300	0.018	0.027	0.080
11	IPS flooring in 1:2:4 proportion 50mm thick	M ²	0.365	0.022	0.033	0.011

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

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

Sr. No.	Item	Unit	Cement in bags	Screened sand in M3	Crushed metal 12/10mm in M ³
24	P & L in situ cement marble mosaic 10mm thick for flooring	M ²	0.20	0.0136	0.0272

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

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

Bd - W. Miscellaneous					
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 ²	0.23	0.028	-
	b) 25mm thick	M ²	0.29	0.035	-
	c) 40mm thick	M ²	0.46	0.056	-
	d) 50mm thick	M ²	0.576	0.070	-
(B)	Guiniting by dry mix process in 1:3 1/2 CM for beams				
	a) 20mm thick	M ²	0.237	0.028	-
	b) 25mm thick	M ²	0.296	0.036	-
	c) 40mm thick	M ²	0.472	0.057	-
	d) 50mm thick	M ²	0.600	0.072	-
(C)	Guiniting by dry mix process in 1:3 1/2 CM for columns				
	a) 20mm thick	M ²	-	-	-
	b) 25mm thick	M ²	0.256	0.034	-
	c) 40mm thick	M ²	0.444	0.054	-
	d) 50mm thick	M ²	0.550	0.067	-
(1)	Vertical surfaces other than columns in 1:3 1/2 CM				
	a) 20mm thick	M ²	0.206	0.025	-
	b) 25mm thick	M ²	0.257	0.031	-
	c) 40mm thick	M ²	0.411	0.050	-
	d) 50mm thick	M ²	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 ³	Bricks in Numbers	Metal in M ³
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 ³	25mm in m ³	20mm in m ³	12mm in m ³	10mm in m ³	6mm in m ³
1	Providing 50mm thick full grout with seal coat	100 M ²	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 ²	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 ²	304	-	2.45	-	2.73	-	0.60
4	Providing 25mm thick premix carpet	100 M ²	205	-	-	1.85	-	1.20	0.60
5	Providing 20mm thick premix carpet	100 M ²	156	-	-	-	1.83	0.90	0.15
6	Single coat surface dressing on WBM surface	100 M ²	200	-	-	-	1.50	-	-
7	Single coat surface dressing on BT surface	100 M ²	125	-	-	-	1.05	-	-
8	Two coat surface dressing	100 M ²	Dose 225.00 Seal coat <u>125.00</u> Total 350.00	-	-	-	1.80	1.00	-
9	Bituminious liquid seal coat	100 M ²	98	-	-	-	-	-	0.90
10	50mm thick special grout bituminious surface including tack coat and seal coat	100 M ²	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 ²	100	-	-	-	-	-	-
12	Tack coat on BT surface	100 M ²	50	-	-	-	-	-	-
13	Emulsion tack coat on WBM surface	100 M ²	35	-	-	-	-	-	-
14	Emulsion tack coat on BT surface	100 M ²	25	-	-	-	-	-	-
15	25mm thick hot mix hot laid carpet	100 M ²	209	-	-	1.85	-	1.20	0.60
16	20mm thick hot mix laid carpet(open graded premix carpet)	100 M ²	146	-	-	1.83	-	0.90	0.15
17	a) 75mm thick bituminious bound macadam surface on BT surface	100 M ²	250	9.00	-	1.5	1.80	-	-
18	b) On WBM surface	100 M ²	200	9.00	-	1.5	1.80	-	-
19	Granular sub-base Shoulder drain	M ³ M		HB Metal 40mm in M ³					

**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 ³	Course Aggregate		
					40mm in M ³	20mm in M ³	12/10mm in M ³
1	Plain cement concrete 1:5:10	M ³	2.60	0.47	0.94	-	-
2	Plain cement concrete 1:4:8	M ³	3.40	0.47	0.94	-	-
3	Plain cement concrete 1:3:6	M ³	4.40	0.47	0.70	0.24	-
4	Plain cement concrete 1:2:4	M ³	6.40	0.445	-	0.67	0.22
5	M-10 grade concrete	M ³	4.40	0.47	0.70	0.24	-
6	M-15 grade concrete	M ³	6.00	0.445	-	0.67	0.22
7	M-20 grade concrete	M ³	7.00	0.445	-	0.67	0.22
8	M-25 grade concrete	M ³	7.50	0.445	-	0.67	0.22
9	M-30 grade concrete	M ³	8.00	0.425	-	0.57	0.28
10	M-35 grade concrete	M ³	8.25	0.47	-	0.57	0.28
11	Cast in situ abutment and piers in M-10	M ³	4.40	0.47	0.70	0.57	-
12	Cast in situ abutment and piers in M-15	M ³	6.00	0.47	0.70	0.24	-
13	Cast in situ abutment and piers in M-20	M ³	7.00	0.47	0.70	0.24	-
14	Cast in situ abutment and piers in M-10 with 15% plum	M ³	3.90	0.40	0.55	0.24	0.15
15	Cast in situ abutment and piers in M-15 with 15% plum	M ³	5.80	0.40	0.55	0.24	0.15

Sr. No.	Item	Unit	Cement in bags	Screened sand in M ³	Trap Rubble in M ³	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 ³	2.90	0.28	12	-	0.17	110
17	Rubble filling behind the abutment	M ³	-	-	-	-	1.00	- Gravel
18	Trap rubble filling in foundation	M ³	-	-	-	-	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 ³	1.21	0.15	40mm crushed metal in m ³ 0.141	Khandki in Nos 5		M ³ 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 ² |
| ii) Medium porosity surface such as cement stabilised soil base | 12 to 15 kg/10 m ² |
| iii) High porosity surface such as grave base | 12 to 15 kg/10 m ² |

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

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

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 ³ |
| B) Coarse aggregate | 11.20 to | 0.835 M ³ |
| C) Chipping | 2.80 to 11.20mm | 0.209 M ³ |
| D) Fine aggregate | Below 2.80mm | 0.366 M ³ |
| | | Total 1.380 M³ |

3B) Bituminous macadam with 3.50% bitumen by weight

- | | | |
|---------------------|-----------------|----------------------------------|
| A) Bitumen | | 77 Kg/M ³ |
| B) Coarse aggregate | 11.20 to | 0.835 M ³ |
| | 26.40mm | |
| C) Chipping | 2.80 to 11.20mm | 0.209 M ³ |
| D) Fine aggregate | Below 2.80mm | 0.366 M ³ |
| | | Total 1.380 M³ |

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

A) Bitumen		66 Kg/M ³
B) Coarse aggregate	11.20 to 26.40mm	0.835 M ³
C) Chipping	2.80 to 11.20mm	0.209 M ³
D) Fine aggregate	Below 2.80mm	0.366 M ³
		Total 1.380 M³

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

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

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 M³

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 ³	
iii. 10mm	0.459 M ³	}
iv. 5.60mm and below	0.459 M ³	
v. Cement filler	0.046 M ³	1.528 M ³

7 A) Surface dressing (Table 500.13 page 170)

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

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

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

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

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

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 ³	Total
ii) Fine aggregate	(36%)	0.566M ³	1.572M ³
iii) Cement	3%	0.072MT/M ³	
iv) Bitumen at	6.50%	156 Kg/M ³	

11) Seal coat (Data Book)

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

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 ³ /M ³	
ii)	11.20mm	0.64 M ³ /M ³	Total
iii)	5.60mm and below	0.44 M ³ /M ³	1.48 M ³
.2. Bitumen			
		124 Kg/M ³	

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 ³ /10M ²
ii)	Bitumen	6.80 Kg/10M ²

**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 ³	Course Aggregate		
					40mm in M ³	20mm in M ³	10mm in M ³
2.3 (i)	PCC / RCC in open foundation						
	a) PCC M-25 grade	M ³	0.40	0.365	0.382	0.304	0.294
	b) PCC M-30 grade	M ³	0.42	0.365	0.382	0.299	0.304
	c) RCC M-35 grade	M ³	0.475	0.40	-	0.57	0.28
2.3 (ii)	d) RCC M-40 grade	M ³	0.50	0.40	-	0.57	0.28
	a) PCC M-15	M ³	0.33	0.45	0.52	0.22	0.11
	b) i) PCC M-20	M ³	0.38	0.45	0.57	0.22	0.11
	c) ii) RCC M-20	M ³	0.40	0.425	-	0.57	0.28
2.5 (i)	c) RCC M-25	M ³	0.41	0.45	-	0.63	0.27
	a) PCC/RCC Well Curb						
	i) RCC M-35 grade	M ³	0.475	0.40	-	0.57	0.28
	ii) RCC M-40 grade	M ³	0.50	0.40	-	0.57	0.28
	b) Well Steining						
	i) PCC M-25 grade	M ³	0.40	0.365	0.382	0.304	0.294
	ii) PCC M-30 grade	M ³	0.42	0.365	0.382	0.304	0.299
	iii) RCC M-35 grade	M ³	0.475	0.40	-	0.57	0.28
	iv) RCC M-40 grade	M ³	0.50	0.40	-	0.57	0.28
	c) Bottom Plug M-25	M ³	0.44	0.365	0.382	0.304	0.299
2.5 (ii)	d) Top & Intermediate plug in PCC M-25	M ³	0.40	0.365	0.382	0.304	0.294
	e) Well cap in RCC M-35	M ³	0.46	0.365	0.382	0.304	0.299
	a) Well curb						
	i) RCC M-20	M ³	0.40	0.425	-	0.57	0.28
	ii) RCC M-25	M ³	0.41	0.45	-	0.63	0.27

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

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

BASIC QUALITY CONTROL

TESTS & THEIR FREQUENCIES

BASIC QUALITY CONTROL TESTS& THEIR FREQUENCIES

FLEXIBLE PAVEMENT.

A) Sub-grades

S. No.	Type of Construction	Test	Frequency (Min.)	Reference
1	2	3	4	5
1)	Subgrade /Earth work. & Earthen Shoulders	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.

S. No.	Type of Construction	Test	Frequency (min.)	Reference
1	2	3	4	5
1)	Lime/Cement /Fly Ash Stabilised Soil Sub Base.	A) <u>Quality of cement</u> 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)Quality of FlyAsh:-</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)	Granular Sub-base	<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)	Water Bound Macadam	<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.m. of aggregate. One tests per 200 cu.m. of 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&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 & 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										
	Prime coat/ Tack Coat	<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&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)	Seal coat/ Surface Dressing	<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="774 197 1117 519"> <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&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 & 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)	Open-graded Premix Surfacing/ Close-graded Premix Surfacing	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&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													
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)	Bituminous Macadam	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&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													
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)	Dense Bituminous Macadam/Bituminous Concrete	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&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 5th truck load</p> <p>One test per 700 sq.m area</p>											
6)	Slurry seal and Micro surfacing.	<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 & 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 & IS:8887.</p> <p>Remarks : As per MORTH, Specification E mulsion is to used in slurry seal & 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)	Mastic Asphalt	<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&above</td> <td>10</td> </tr> </tbody> </table> <p>One tests per 350 cum.of aggregates for each source & whenever there is change in the quality of aggregates.</p> <p>One tests per 350 cum.of aggregates for each source & whenever there is change in the quality of aggregates.</p> <p>One test of each source & whenever there is change in the quality of aggregates.</p> <p>Two tests per day per plant on the individual constituent & 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)	Cold Mixes.	<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) ii) Aggregate Impact Value. iii) Combined Flakiness and Elongation Indices iv) Water absorption of aggregate. v) Grading of aggregate. vi) Temperature of binder at application vii) Binder content.	<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&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														
			One test per 350 cu.m. of each source and whenever there is change in the quality of aggregate.												
			One test per 350cu.m. of aggregates for each source and whenever there is change in the quality of aggregate.												
			One test of each source and whenever there is change in the quality of aggregate.												
			Two tests per day.												
			At regular intervals												
			Two tests per day.												

BASIC QUALITY CONTROL TESTS & THEIR FREQUENCIES

RIGID PAVEMENT

Sr. No.	Material	Description of Test	Frequency Min.	Reference
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 & 2 beams per 150 cu.m. or part thereof (One for 7 days & other for 28 days strength) or minimum 6 cubes & 6 beams per day's work whichever is more.</p> <p>One test per each dumper load at both batching plant site & 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 & part thereof.</p> <p>One test for 50,000 blocks & 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)

BASIC QUALITY CONTROL TESTS& THEIR FREQUENCIES
BUILDINGS, C.D. WORK& BRIDGES.

Sr. No.	Material.	Description of Test.	Frequency Min.	Reference
1.	2.	3.	4.	5.
1)	Cement.	i) Compressive Strength. ii) Initial Setting Time. iii) Final setting Time. iv) Specific Gravity. v) Soundness. vi) Fineness vii) Workability.	One test for each consignment of 150 MT & part thereof.	PWD Handbook, Chapter-33 for RCC. Quality Control Part I (Modified)
2)	Aggregate	i) Crushing Value. ii) Impact Value . iii) Water absorption. iv) Gradation. v) Flakiness Index.	One test for 200 cum & part thereof.	PWD Handbook, Chapter -3 for RCC & IS:2386 Part-II.
3)	Sand.	i) Fineness Modulus. ii) Silt Content. iii) Bulk age for Volume Batching.	At Beginning & if there is change in source.	PWD Handbook, Chapter -3 for RCC & IS:2386 Part-II.

4)	Cement Concrete.	<p>i) Compressive Strength.</p> <p>ii) Mix Design.</p>	<p>i) (1set of 3 cubesfor each grade) a) Upto 5 cum.-1 Set. b) 6 to 15 cum-2Sets c) 16 to 30 cum-3Sets. d) 31 to 50 cum-4Sets. e) 51 & above-4Plus one additional sample for each additional 50 cum or part thereof. (Set of at least one sample shall be taken from each shift of work)</p> <p>At beginning & if there is change in source of material.</p>	MORTH Specificati on 2013 Section:- 1717. (Table-1700-9)
5)	Steel	<p>i) Ultimate Tensile Stress.</p> <p>ii) Percentage Elongation</p> <p>iii) (Yeild Stress) Proof Stress.</p> <p>iv) Weight per meter.</p>	One test for every 5 metric tones or part there of for each diameter of bar.	IS:432 (Part-II)
6)	Bricks.	<p>i) Compressive Strength.</p> <p>ii) Water absorption.</p>	(One set of 15 Bricks) For 50,000 Nos and part thereof.	IS:1077.
7)	Flooring Tiles.	<p>i) Transverse Strength.</p> <p>ii) Water absorption.</p>	6 tiles shall be tested or every test for every 2000 tiles or part thereof	As per SSR 2017-18

8)	Manglore Tiles.	i) Breaking Load ii) Water Absorption.	One set of 18 tiles for every 2000 tiles or part thereof	As per SSR 2017-18
9)	Paver Blocks.	i) Compressive Strength ii) Water Absorption	One test for 50,000 blocks & part thereof.	IS: 15658 – 2006.

GOVERNMENT OF MAHARASHTRA
Vigilance & Quality Control Circle

Schedule of Testing charges for construction material used for
Government Works for the Year 2018-19
Effective from 1/ 07/2018 and valid Upto 30/06/2019

Sr. No.	Name of Test	Test	Rate in Rs.
1	2	3	4
	<u>BASIC TEST OF CEMENT.</u>		
1	Standard Consistency Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength, Soundness	1 Test	3300.00
	<u>BASIC TEST OF AGGREGATE.</u>		
2	Water Absorption, Specific Gravity, Impact Value /Crushing Value.	1 Test	2300.00
3	Sieve Analysis.	1 Test	600.00
4	Abrasion Value.	1 Test	1050.00
5	Flakiness Index & Elongation Index.	1 Test	750.00
6	Stripping Value. (for Bituminous Work)	1 Test	660.00
7	Soundness.	1 Test	2200.00
	<u>MIX DESIGN.</u>		
8	GSB Mix Design.	1 Test	14300.00
9	Wet Mix Macadam Mix Design.	1 Test	14300.00
	<u>FINE AGGREGATES.</u>		
10	Fineness Modulus (Sieve Analysis), Silt & Clay Content	1 Test	1200.00
11	Chloride & Sulphate Content.	1 Test	700.00
12	Silt Factor.	1 Test	750.00
	<u>BRICKS</u>		
13	Water Absorption (Set of 5 Bricks), Compressive Strength(Set of 5 Bricks), Efflorescence (Set of 5 Bricks).	1 Test	1900.00
	<u>FLOORING TILES (MOSSAIC / CEMENT)</u>		
14	Flexural test (Set of 6 Tiles), Water Absorption (Set of 6 Tiles).Resistance to wear (Set of 6 Tiles).	1 Test	2200.00
15	Flooring of Natural Stone (Kota, Marble, granite, Tandur.etc.)-Water absorption, Specific gravity)	1 Test	1200.00
			Page No.2

Sr. No.	Name of Test	Test	Rate in Rs.
1	2	3	4
	<u>CERAMIC TILES / VITRIFIED TILES</u>		
16	Water Absorption, Moduls of Rapture (Set of 6 Tiles)	1 Test	1400.00
	<u>MANGLORE TILES</u>		
17	Water Absorption (Set of 6 Tiles), Flexural test (Set of 6 Tiles).	1 Test	1300.00
18	Permeability.	1 Test	850.00
	<u>CONCRETE</u>		
19	Compressive Strength OF C.C. Cube(Set of 3 cubes).	1 Test	600.00
20	Concrete Mix Design (With all Tests on basic materials)*	1 Test	12100.00
21	Flexural strength of Beam.	1 Test	650.00
22	Permiability Test.	1 Test	1350.00
23	Concrete mix design by Accelerated curing method. (By Accelerated curing method)	1 Mix Design	14300.00
24	Taking of core samples in concrete pavement. (Excluding Dead Journey Charges)	1 Test	2500.00
25	Dead Journey Charges.	Per Km	15.00
	<u>CONCRETE PAVING BLOCKS</u>		
26	Compressive Strength , Water Absorption,(Set of 8 Blocks)	1 Test	2200.00
	<u>MORTOR</u>		
27	Compressive Strength.(Set of 3 Cubes)	1 Test	600.00
	<u>STONE/ RUBBLE</u>		
28	Crushing Value/Compressive Strength Water Absorption & Specific Gravity,	1 Test	1750.00

Sr. No.	Name of Test	Test	Rate in Rs.
1	2	3	4
	<u>SOIL / MURUM</u>		
29	Sieve Analysis.	1 Test	600.00
30	Liquid limit & plastic Limit.	1 Test	1000.00
31	Compaction Test (Proctor Density).	1 Test	1650.00
32	C.B.R. Test (Lab) With compaction test.	1 Test	6050.00
33	C.B.R. Test (Field Determination Test) Excluding Transportation.As per IS 2720 Part XXXI	1 Test	2300.00
34	Dead Journey Charges,inspection Vehical	Per Km	15.00
35	Dead Journey Charges,Truck/Tipper	Per Km	54.00
36	Field Density by Sand replacement method.	1 Test	1000.00
37	Sulphate & Chloride Contents.	1 Test	700.00
38	Mechanical Analysis.	1 Test	1950.00
39	Plate Load Bearing Test. (Excluding Transportation)	1 Test	27500.00
40	Free Swell Test for Soil.	1 Test	800.00
	<u>BITUMEN</u>		
41	Penetration, Softening Point, Flash & Fire Point, Specific Gravity	1 Test	2750.00
42	Viscosity.	1 Test	1700.00
43	Ducility / Elastic Recovery	1 Test	800.00
44	Extraction Test.(OGC)	1 Test	1400.00
45	Extraction &Sieve Analysis of Bituminous mix (for BM/DBM/AC) (2 samples of extraction for one sieve analysis including extraction)	1 Test	3450.00
46	Marshall Stability & Flow measurement. (Set of 3 moulds)	1 Test	1000.00
47	Job Mix Design with all Tests on aggregate (Excluding bitumen) for DBM/SDBC/AC.	1 Mix Design	14300.00
48	B. M. Mix Design with all Tests on aggregate (Excluding bitumen)	1 Mix Design	6600.00
49	Mastic Hardness No.	1 Test	600.00
50	Thin film oven test & test on residue of modified bitumen.	1 Test	2750.00
51	Seperation test for modified bitumen.	1 Test	1000.00
52	Density of Bituminous Core.	1 Test	550.00
53	Taking of core samples in bituminous flexible pavement. (Excluding Dead Journey Charges)	1 Test	2500.00
54	Dead Journey Charges.	Per Km	15.00
			Page No.4

Sr. No.	Name of Test	Test	Rate in Rs.
1	2	3	4
	<u>BITUMINOUS EMULSION</u>		
55	% Residue Test By Evaporation / Sieve Test	1 Test	550.00
56	Partical Charge Test	1 Test	350.00
	<u>HOLLOW BLOCKS/ SOLID BLOCKS</u>		
57	Density Test . (Set of 3 Blocks),Compressive Strength. (Set of 8 Blocks),Water Absorption Test .(Set of 3 Blocks)	1 Test	1750.00
	<u>WATER</u>		
58	PH Value, Sulphate & Chloride Content.	1 Test	1000.00
	<u>WOOD</u>		
59	Density, Moisture Content.	1 Test	950.00
	<u>FLUSH DOOR</u>		
60	Knife Test, Adhesion Test, End Immersion Test.	1 Test	2400.00
	<u>PLYWOOD</u>		
61	Determination of Resistance to dry heat,Determination of Moisture Content,Determination of Density,Thickness of Plywood.	1 Test	3000.00
62	Test for Glue Adhesion	1 Test	450.00
	<u>PARTICAL BOARD</u>		
63	Determination of Moisture Content,Determination of Density	1 Test	1400.00
	<u>ALUMINIUM SECTION</u>		
64	Thickness, Mass Per Running meter,	1 Test	600.00
65	Test on Powder Coating	1 Test	700.00
			Page No.5

Sr. No.	Name of Test	Test	Rate in Rs.
1	2	3	4
<u>A.C. PIPES</u>			
66	Water Absorption	1 Test	600.00
67	Bursting Strength	1 Test	450.00
<u>G.I. PIPES</u>			
68	Weight per running meter,Diameter of pipe & wall thickness of pipe,	1 Test	200.00
69	Weight of Zinc coating per sq. m.	1 Test	250.00
<u>P.V.C. PIPES (NONPLASTISIZED)</u>			
70	Weight per running meter,Diameter of pipe & wall thickness of pipe	1 Test	200.00
<u>STEEL ANTI CORROSIVE TEST</u>			
71	Resistance to applied Voltage. (1 Hr. Test) (Set of 2 Bars)	1 Test	1000.00
72	Resistance to applied Voltage.(30 Days Test) (Set of 2 Bars)	1 Test	2750.00
73	Thickness of Coating. (Set of 2 Bars)	1 Test	500.00
74	Chemical Resistance Test.(Set of 8 Bars)	1 Test	2100.00
75	Hardness of Coating Test .	1 Test	250.00
76	Salt Spray Test (4 Cycles) (Set of 2 Bars)	1 Test	1300.00
<u>STEEL BAR TESTING</u>			
77	Upto 16 mm (Set of 3 Bars)	1 Test	1100.00
78	Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress,Weight-Per Meter, Bend / Rebend Test, Proof Stress.)	1 Test	1400.00
79	Nitrol Solution Test. (Set of 3 Bars)	1 Test	3400.00
<u>PAINT / THERMO-PLASTIC PAINT</u>			
80	Glass bead contents & grading analysis.	1 Test	3400.00
81	Reflectance & yellowness index.	1 Test	1000.00
82	Flowability.(Percentage residue).	1 Test	1000.00
83	Softening Point. (Ring & ball method).	1 Test	900.00
84	Drying Time.	1 Test	700.00
<u>COAL TAR EPOXY PAINT</u>			
85	Drying Time.	1 Test	700.00
86	Dry Film Thickness.	1 Test	650.00
87	Flexibility.	1 Test	250.00
88	Gel Time.	1 Test	450.00
89	Pot Life.	1 Test	450.00
90	Volume of Solid.	1 Test	950.00

Sr. No.	Name of Test	Test	Rate in Rs.
1	2	3	4
<u>ROAD SIGN BOARD</u>			
91	Retro Reflective Test.	1 Test	3500.00
<u>ROUGHNESS INDEX / ROAD UN-EVENNESS TEST</u>			
92	Road Surface Single Lane.(3.70 to 5.50 m)	Per Km	650.00
93	Road Surface 1.5 Lane to Two Lane.(5.50 to 7.00 m)	Per Km	1300.00
94	Each Additional Lane.	Per Km	650.00
95	Dead Journey Charges.	Per Km	15.00
<u>OVERLAY DESIGN</u>			
96	Benkelman Beam Test (Excluding Dead Journey Charges)	Per Km	12450.00
<u>NON -DESTRUCTIVE TEST</u>			
97	Rebound Hammer Test.	1 Point	200.00
98	Ultrasonic Pulse Velocity	1 Point	300.00

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

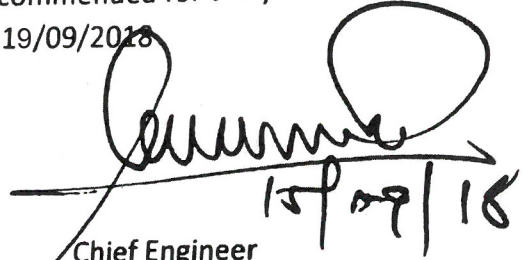
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PUBLIC WORKS DEPARTMENT

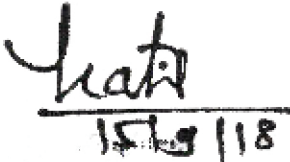
The State Schedule of Rates is recommended for the year 2018-19
with effect from 19/09/2018



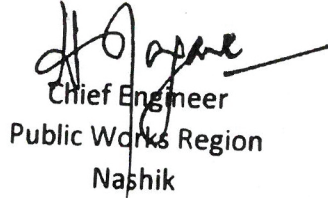
Chief Engineer
Public Works Konkan Region
Mumbai



Chief Engineer
Public Works Region
Pune



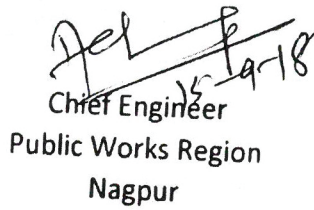
Chief Engineer
Public Works Region
Aurangabad



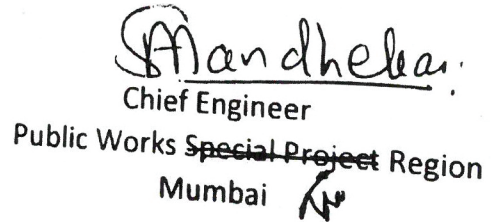
Chief Engineer
Public Works Region
Nashik



Chief Engineer
Public Works Region
Amrayati



Chief Engineer
Public Works Region
Nagpur

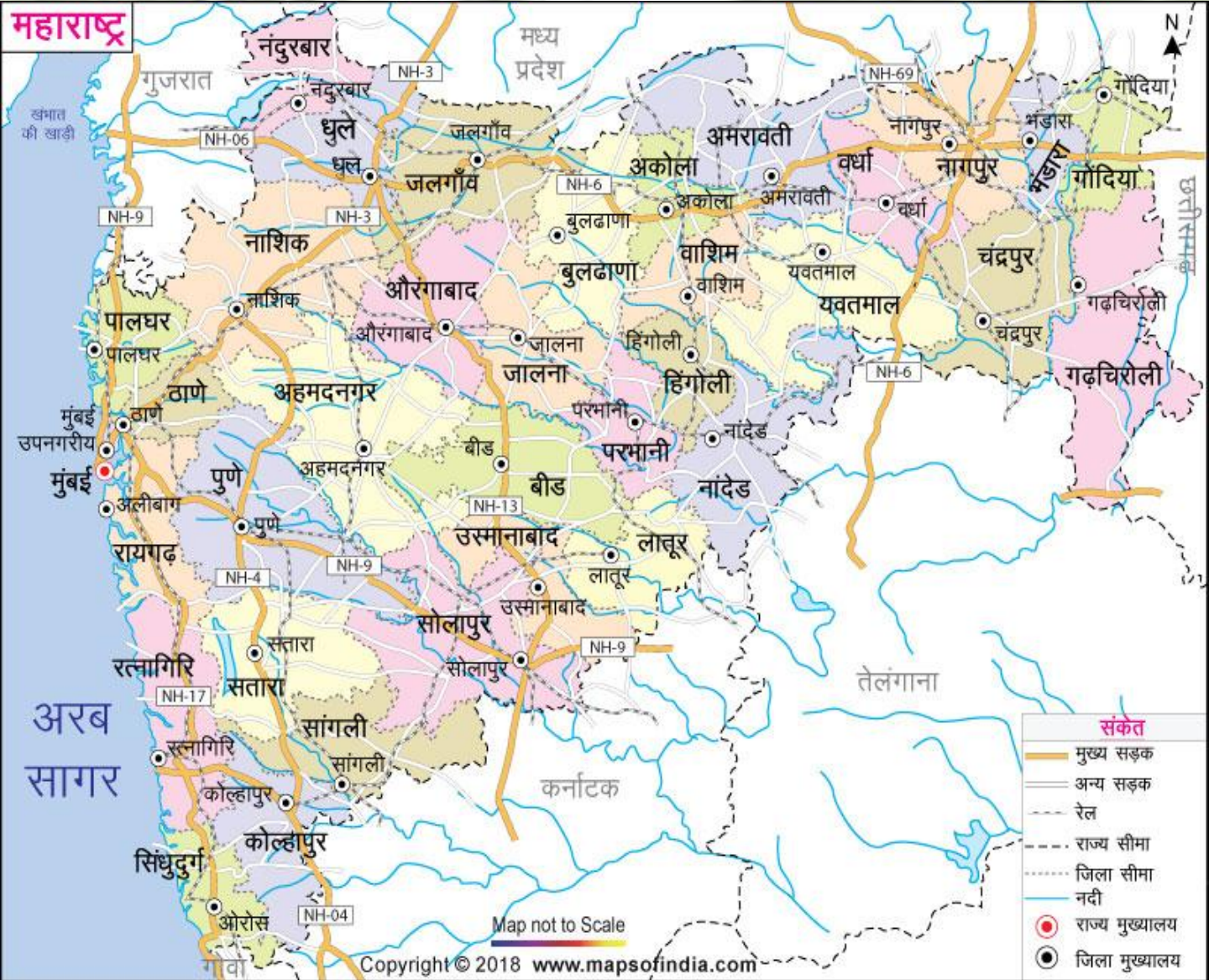


Chief Engineer
Public Works Special Project Region
Mumbai

Approved

Secretary (Works)

Secretary (Roads)



**Govt. of Maharashtra
Public Works Department**