

# SANGAM PREFAB CONCRETE PRODUCTS PVT. LTD

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## COMPANY PROFILE

SANGAM PREFAB CONCRETE PRODUCTS PVT. LTD. is one of the leading manufacturer of precast concrete products. We also sell Fiber reinforced plastic products and construction material like manhole cover, construction chemicals like Admixture (HARDNER ) and Lacquer Polish. Our precast concrete products ranges vary outdoor furniture, flooring, cable trench etc. These products find application in road construction, commercial, and residential construction, construction of railway platforms and beautification of parks.

We distinguish ourselves by consistently making high quality innovative products. In fact over the years we have pioneered and introduced many new products. In-fact over the years we have pioneered and introduced many new products into the precast market. Some example includes our precast concrete CABLE TRENCH and frames replaced cast in situ PCC for laying of cable at site, our interlocking PAVERS replaced cast in situ concrete floors, our PRE-STRESSED HEAVY DUTY READY MADE BOUNDARY WALL ASSEMBLY replaced traditional brick boundary wall, our PRECAST RCC FURNITURE replaced cast iron and stone furniture, our PRECAST CONCRETE PLATFORM COPING at NJP Station replaced cast in situ concrete and there are many more such products. Also Siliguri Junction & Naxalbadi Station recently used our Precast platform wall instead at castt in situ traditional wall.

In this business we have spent 8 years of long legacy. We started in this line of business in the year 2008. Now we boost an employee strength of more than 200. In our all company, we have over 7 acre of area devoted to manufacturing plant, administrative office, quality control and research and development lab with our own stone crushing unit to maintain the quality of raw material to be provided.

We continue to give this market cost-effective, durable, maintenance free, user friendly and environmentally-friendly precast concrete solutions.

Sangam concrete products are manufactured using the latest Vibro - Compaction techniques, accurately designed moulds, appropriate reinforcement with concrete spacers and a concrete grade of M-30 and above.

We can also produce customized products for your special needs subject to bulk quantities. To order customized products sizes, strength required and other necessary information needs to be sent.

In our constant endeavor to improve the products the specification may change without notice.

# BENEFITS OF PRECAST CONCRETE

**Strength :** The strength of Precast concrete gradually increase over time. Other materials can deteriorate, experience creep and stress relaxation, lose strength and/or deflect over time. The load carrying capacity of precast concrete is derived from its own structural qualities and does not rely on the strength or quality of the surrounding back fill materials.

**Durability :** Studies have shown that precast concrete products can provide a service life in excess of 100 years. For severe service conditions, additional design options are available which can extend the life of the precast concrete product. This is extremely important when calculating life cycle cost for a project.

**Mass :** Precast concrete products can act as effective barriers to vehicular traffic due to there size and weight. In the current world climate, precast concrete products such as bollards, planters and highway barriers increasingly are being used to provide protection for a wide variety of venues.

**Chemical Resistance :** Precast concrete is resistant to most substances. However no material is completely immune to attack from aggressive chemical agents. Thus it is wise to choose the material with the longest expected service life. Precast concrete products can be designed to withstand anticipated corrosive agent.

**Quality Control :** Because precast concrete products typically are produced in a controlled environment they exhibit high quality and uniformity. Variables effecting quality typically found on a job site - temperature, humidity, material quality, craftsmanship - are nearly eliminated in a plant environment.

**Modularity :** Because of the modular nature of many precast concrete products, structures of systems of nearly any size can be accommodated.

**UV sensitivity :** Unlike some other materials, precast concrete does not degrade from exposure to sunlight. This is extremely beneficial for above ground applications.

**Aesthetics :** Precast concrete products are both functional and decorative. They can be shaped and molded into an endless array of sizes and configurations. Precast concrete can also be produced in virtually any colour and wide variety of finishes (sand blasted, smooth as cast, exposed aggregates) to achieve the desired appearance for building and site application.

**Low maintenance :** Precast concrete requires little or no maintenance, which make it an ideal choice for nearly any designed solution.

**Environment friendly :** After water concrete is the most frequently used material on earth. It is nontoxic, environmentally safe and composed of natural minerals. Buried throughout the world, precast concrete products help convey water without contributing to poor water quality.

**Weather resistance :** Precast concrete is well suited for exposure to all types of weather conditions.

**Reduced weather dependency :** precast increases efficiency because weather will not delay production. In addition weather conditions at the job site do not significantly affect the schedule. This is because it requires less time to install precast compared with other construction methods, such as cast in place concrete. Precast concrete can be easily installed on demand and immediately backfilled - there is no need to wait for it to cure.

**Water tightness :** Standard water tight sealants are specially formulated to adhere to precast concrete, making water tight multiple-seam precast concrete structures possible.

**Ease of installation :** Since precast products are designed and manufactured for simple connection, many components can be installed in a short time.

**Efficiency :** Precast concrete arrive at the job site ready to install. There is no need to order raw materials such as re-inforcement steel and concrete, and there is no need to spent time setting up forms, placing concrete or waiting for the concrete to cure.

**Fire resistance :** Precast concrete is non combustible. Also, concrete does not lose its structural capacity nearly as quickly as compared to steel. Other materials beside concrete and steel are flammable and/or do not perform well in elevated temperatures.

# CERTIFICATE OF PAVER WITH PICTURE

IS : 15658 : 2006



CM/L - 5603055



Site : Samastipur (Bihar)



Site : IOCL Pump (Malda)



Site : Islampur



Site : Hotel at Sikkim

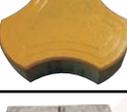
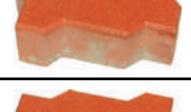
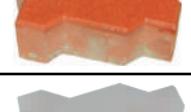


Site : Resort at Assam



Site : Pradhan Nagar (Siliguri)

# PAVER BLOCK BY VIBRO COMPACTION PROCESS

PRODUCT	PRODUCT SPECIFICATION	PRICE (PER SQ. MTR.)
<b>JUMBO</b> 	THICKNESS : 60mm 1SQ. MTR. = 24.11 PCS CONCRETE GRADE : M-35 WT. PER PC = 5.5 KGS. (APPROX.) CAPACITY : FOR LIGHT MOTOR VEHICLES	<b>495/-</b>
<b>ZIGZAG</b> 	THICKNESS : 60mm 1SQ. MTR. = 32 PCS CONCRETE GRADE : M-35 WT. PER PC = 4.35 KGS. (APPROX.) CAPACITY : FOR LIGHT MOTOR VEHICLES	<b>495/-</b>
<b>TAURUS</b> 	THICKNESS : 60mm 1SQ. MTR. = 16.45 PCS CONCRETE GRADE : M-35 WT. PER PC = 8 KGS. (APPROX.) CAPACITY : FOR LIGHT MOTOR VEHICLES	<b>495/-</b>
<b>TRIHEX</b> 	THICKNESS : 60mm 1SQ. MTR. = 35.50 PCS CONCRETE GRADE : M-35 WT. PER PC = 4 KGS. (APPROX.) CAPACITY : FOR LIGHT MOTOR VEHICLES	<b>495/-</b>
<b>I-SHAPE</b> 	THICKNESS : 60mm 1SQ. MTR. = 27.50 PCS CONCRETE GRADE : M-35 WT. PER PC = 4.50 KGS. (APPROX.) CAPACITY : FOR LIGHT MOTOR VEHICLES	<b>495/-</b>
<b>DUMRU</b> 	THICKNESS : 60mm 1SQ. MTR. = 27.50 PCS CONCRETE GRADE : M-35 WT. PER PC = 4.50 KGS. (APPROX.) CAPACITY : FOR LIGHT MOTOR VEHICLES	<b>495/-</b>
<b>4"X4" SQUARE SHAPE</b> 	THICKNESS : 60mm 1SQ. MTR. = 96 PCS CONCRETE GRADE : M-35 WT. PER PC = 1.50 KGS. (APPROX.) CAPACITY : FOR LIGHT MOTOR VEHICLES	<b>495/-</b>
<b>AKASH</b> 	THICKNESS : 60mm 1SQ. MTR. = 19 PCS CONCRETE GRADE : M-35 WT. PER PC = 7 KGS. (APPROX.) CAPACITY : FOR LIGHT MOTOR VEHICLES	<b>495/-</b>
<b>Cobble Stone 60mm</b> 	THICKNESS : 60mm 1SQ. MTR. = 24 PCS CONCRETE GRADE : M-35 WT. PER PC = 5.8 KGS CAPACITY : FOR LIGHT MOTOR VEHICLES	<b>495/-</b>
<b>Brook 60mm</b> 	THICKNESS : 60mm 1SQ. MTR. = 18.20 PCS CONCRETE GRADE : M-35 WT. PER PC = 7 KGS. (APPROX.) CAPACITY : FOR LIGHT MOTOR VEHICLES	<b>495/-</b>
<b>ZIGZAG 80mm</b> 	THICKNESS : 80mm 1SQ. MTR. = 32 PCS CONCRETE GRADE : M-35 WT. PER PC = 5.7 KGS CAPACITY : FOR HEAVY DUTY VEHICLES	<b>635/-</b>
<b>ZIGZAG 100mm</b> 	THICKNESS : 100mm 1SQ. MTR. = 32 PCS CONCRETE GRADE : M-40 WT. PER PC = 7 KGS. (APPROX.) CAPACITY : EXTRA HEAVY DUTY VEHICLES	<b>735/-</b>
<b>HYDRAULIC ZIGZAG</b> 	THICKNESS : 80/100mm 1SQ. MTR. = 39 PCS CONCRETE GRADE : M-40 WT. PER PC = 4.6/5.7 KGS. (APPROX.) CAPACITY : EXTRA HEAVY DUTY VEHICLES	<b>For 80mm Rs. 570/- For 100mm Rs. 710/-</b>

AVAILABLE COLOURS : GREY, RED, YELLOW, BLACK, ORANGE (GREY CEMENT)

\*\* RATES ARE EX-FACTORY, GST & TRANSPORTATION CHARGES EXTRA AS APPLICABLE.\*\*

(4)

**WE CUSTOMIZE PRODUCT SUBJECT TO BULK QUANTITIES (WE DON'T SAY "NO" IN RESPONSE TO BIG IDEAS)**

# CERTIFICATE OF TILES WITH PICTURE

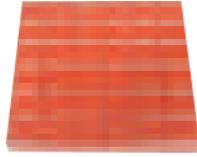
IS : 13801 : 1993



CM/L - 5569182



# CONCRETE TILES BY VIBRO COMPACTION PROCESS

PRODUCT	PRODUCT SPECIFICATION	PRICE (PER SQ. FT.)
<b>CADBURY/ CHEQUERED TILES</b> 	THICKNESS : 25 mm 1SQ. MTR. = 10.76 PCS CONCRETE GRADE : M-30 WT. PER PC = 5.5 KGS. (APPROX.) CAPACITY : FOR LIGHT VEHICLES	35/-
<b>LABRADOR TILES</b> 	THICKNESS : 25 mm 1SQ. MTR. = 10.76 PCS CONCRETE GRADE : M-30 WT. PER PC = 5.5 KGS. (APPROX.) CAPACITY : FOR LIGHT VEHICLES	35/-
<b>BENZENE MAX</b> 	THICKNESS : 25 mm 1SQ. MTR. = 9.04 PCS CONCRETE GRADE : M-30 WT. PER PC = 5.5 KGS. (APPROX.) CAPACITY : FOR LIGHT VEHICLES	35/-
<b>ALFA WONDER</b> 	THICKNESS : 25 mm 1SQ. MTR. = 10.55 PCS CONCRETE GRADE : M-30 WT. PER PC = 5.5 KGS. (APPROX.) CAPACITY : FOR LIGHT VEHICLES	35/-
<b>LABORADOR TYPE -II</b> 	THICKNESS : 25 mm 1SQ. MTR. = 10.76 PCS CONCRETE GRADE : M-30 WT. PER PC = 5.5 KGS. (APPROX.) CAPACITY : FOR LIGHT VEHICLES	35/-
<b>SCORPIO TILES</b> 	THICKNESS : 30 mm 1SQ. MTR. = 8.09 PCS CONCRETE GRADE : M-30 WT. PER PC = 8 KGS. (APPROX.) CAPACITY : FOR LIGHT VEHICLES	40/-
<b>CADBURY/ CHEQUERED TILES</b> 	THICKNESS : 30 mm 1SQ. MTR. = 10.76 PCS CONCRETE GRADE : M-30 WT. PER PC = 6.5 KGS. (APPROX.) CAPACITY : FOR LIGHT VEHICLES	40/-
<b>STAIR TILES</b> 	THICKNESS : 30 mm 1SQ. MTR. = 10.76 PCS CONCRETE GRADE : M-30 WT. PER PC = 6.5 KGS (APPROX.) CAPACITY : FOR LIGHT VEHICLES	40/-
<b>MOZAIC TILES 300X300 SQ. SHAPE</b> 	THICKNESS : 30 mm 1SQ. MTR. = 10.76 PCS CONCRETE GRADE : M-30 WT. PER PC = 6.5 KGS. (APPROX.) CAPACITY : FOR LIGHT VEHICLES	48/-
<b>MOZAIC TILES 400X400 SQ. SHAPE</b> 	THICKNESS : 30 mm 1SQ. MTR. = 6 PCS CONCRETE GRADE : M-30 WT. PER PC = 9 KGS. (APPROX.) CAPACITY : FOR LIGHT VEHICLES	54/-

AVAILABLE COLOURS : GREY, RED, YELLOW, BLACK, ORANGE (GREY CEMENT)

\*\* RATES ARE EX-FACTORY, GST & TRANSPORTATION CHARGES EXTRA AS APPLICABLE.\*\*

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**WE CUSTOMIZE PRODUCT SUBJECT TO BULK QUANTITIES (WE DON'T SAY "NO" IN RESPONSE TO BIG IDEAS)**

# BENCH PROJECTS



Site : Alipurduar



Site : Dalgaon Rly. Station



Site : Aditya Birla Township, Odisa



Site : Resort at Thimpu, Bhutan



Site : School at Alipurduar



Site : Agartala Rly. Station



Site : Malbazar Municipality



Site : Motiohari (Bihar),  
Customised Embossed Bench  
for MLA



Site : Park in Odisa



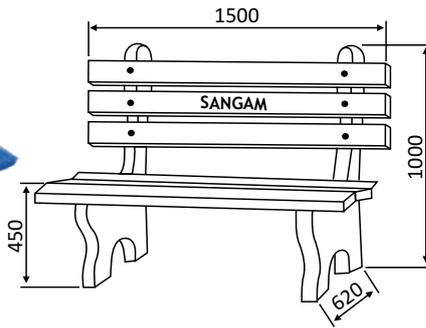
Site : Siliguri

(7)

**WE CUSTOMIZE PRODUCT SUBJECT TO BULK QUANTITIES (WE DON'T SAY "NO" IN RESPONSE TO BIG IDEAS)**

# R.C.C FURNITURE

## RCC BACK REST BENCH



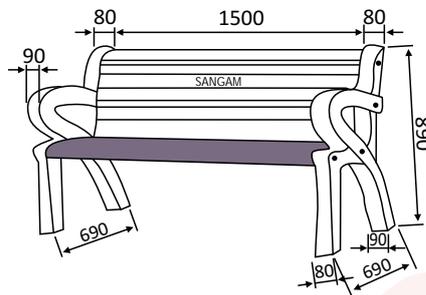
## SPECIFICATION

₹ 6100/- per set

Each bench consists of 2 Nos. L-Shape base support in grey cement color (thickness:100 mm, Back height:1000 mm, front height : 450 mm, Base width : 620mm) and 5 Nos. reinforced concrete planks in red color of size 1500mm X 100mm X 50mm, and 1 No. of reinforced concrete plank of size 1500mm X 200mm X 50mm.

Overall Dimensions: Seating length of the Bench:1500 mm.  
Seating height of the Bench:450 mm.  
Total height of the Bench : 1000 mm.

## RCC HAND REST BENCH



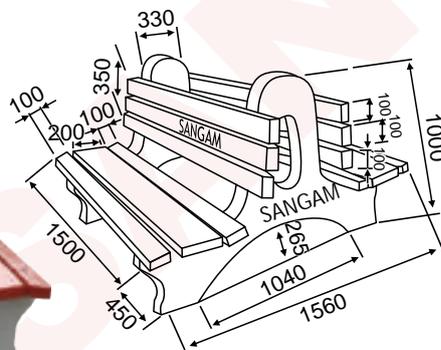
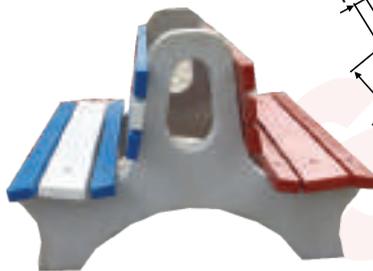
## SPECIFICATION

₹ 6490/- per set

Each bench consists of 2 Nos. L-shape base support in grey cement colour (thickness:80 mm, Back height : 890 mm, Front height : 450mm, and Base width : 690mm) and 2 nos. reinforced concrete plank in Red colour of size 1500mm X 400mm X 50mm.

Overall Dimensions : Seating length of the Bench:1500 mm.  
Seating height of the Bench:450 mm.  
Total height of the Bench:890 mm.

## RCC DOUBLE SIDE BENCH



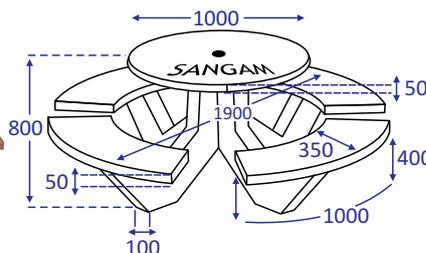
## SPECIFICATION

₹ 11900/- per set

Each bench consists of 2 Nos base support in grey cement colour (Thickness:100mm, Back height : 1000 mm & Front height:450mm, Base width:1435 mm) and 10 Nos. reinforced concrete planks in red colour of size 1500 X 100 X 50mm, and 2 No. of reinforced concrete plank of size 1500 X 200 X 50 mm.

Overall Dimensions: Seating length of the Bench:1500 mm on one side & 1500 mm on the opposite side.  
Seating height of the Bench:450 mm.  
Total height of the Bench:1000 mm

## CIRCULAR TABLE



## SPECIFICATION

₹ 16990/- per set

Consists of 2 Nos. Base support in grey cement colour  
Table size 1000mm dia x 50mm  
4 Nos. seat with size 1000 length X 350mm width X 50mm.

Overall Dimensions: Height of table : 800 mm; cement concrete,  
Table of size 1000mm thickness in terrazzo or red color finish  
Height of benches:450 mm dia. X 50mm thickness and  
4 nos. benches of size

AVAILABLE COLOURS : YELLOW,ORANGE, GREEN, BLUE & WHITE  
All components are joined using galvanized nut-bolt. Concrete Grade M-30

\*\* RATES ARE EX-FACTORY, GST & TRANSPORTATION CHARGES EXTRA AS APPLICABLE.\*\*

# HEAVY DUTY PRESTRESSED READYMADE BOUNDARY WALL (50MM THICK)



Site : Alipurduar



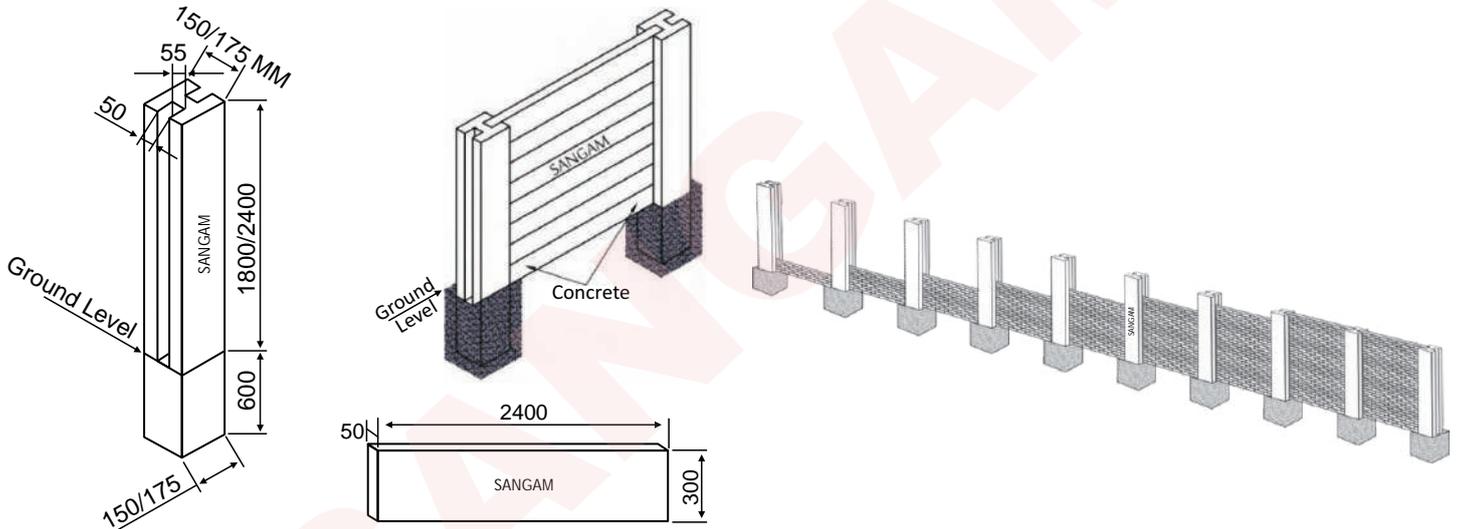
Site : Siliguri



Site : Kolkata



Site : Bhagalpur (Bihar)



**2700 mm (approx. 9 ft) High Boundary Wall 50 mm thickness with concertina coil / barbed wire fixing provision**

### **SPECIFICATION**

Consists of RCC Precast Concrete Post of size 175mm X 175 mm X 3600 mm Height, having two grooves of size 50 X 55 mm so as to receive 9 Nos. Precast Concrete panels

**1800 mm / 2400 mm (approx. 6 ft and 8 ft ) High Boundary Wall 50 mm thickness with concertina coil fixing provision.**

### **SPECIFICATION**

Consists of RCC Precast Concrete Post of size 150 mm X 150 mm X 2400 / 3000 mm Height , having two grooves of size 50 X 55 mm, so as to receive 6 Nos. or 8 Nos. of Precast Concrete panels for 6 ft and 8 ft height wall respectively

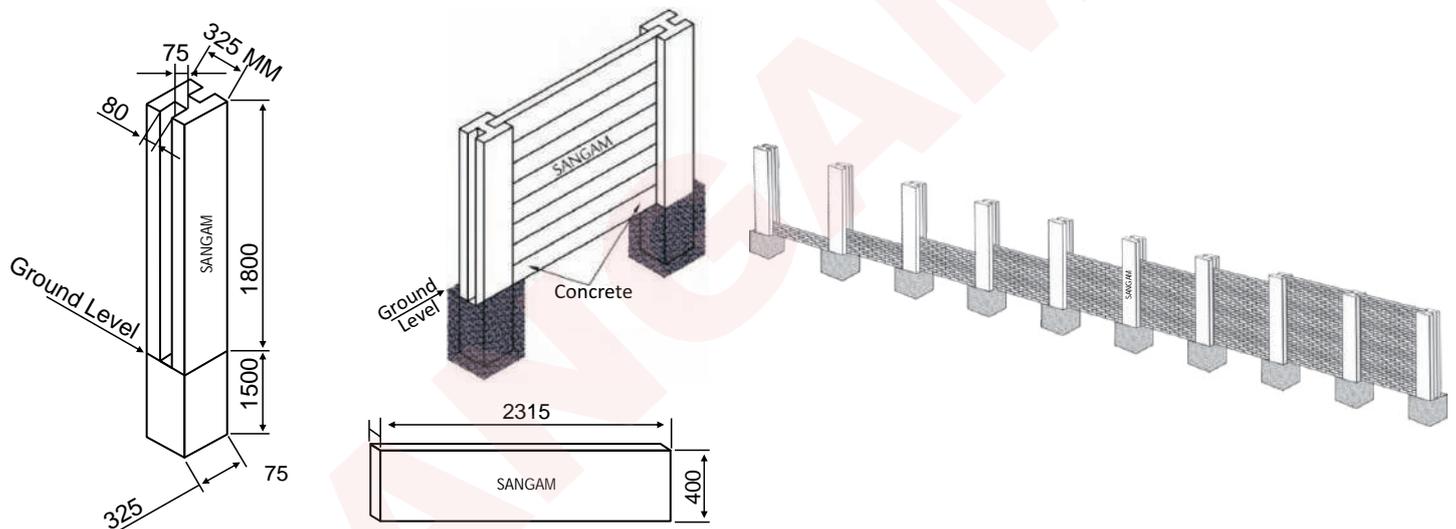
### **NOTE: ( COMMON SPECIFICATION )**

- \* RCC Panels of size 2400mm X 300mm X 50 mm thickness.
- \* The post is reinforced with 4 Nos. 4 mm dia HT wire with 4mm dia stir-ups @ 150mm c/c.
- \* Panels are reinforced with 4 Nos. longitudinal HT wire of 4mm.Dia & 4 mm HT wire. Stir up @ 300 centre to centre.
- \* The post may be fixed to the ground by digging a hole of 500 X 500 X 600 mm and filled with 1 : 3 : 6 concrete after the post has been aligned in these holes.
- \* The post will be erected @ 2.415 m. centre to centre.
- \* Manufactured by using M-30 grade of concrete.

# HEAVY DUTY PRECAST READYMADE BOUNDARY WALL (70 MM THICH)



Site : Mathabanga and Alipurduar Power Grid



**1800 mm High Boundary Wall 75 mm thickness with concertina coil fixing provision.**

## **SPECIFICATION**

Consists of RCC Precast Concrete Post of size 325mm X 325 mm X 3300 mm Height , having two grooves of size 80 X 85 mm, so as to receive 5 Nos. of Precast Concrete panels for 6 ft height wall

## **NOTE:**

- \* RCC Panels of size 2315 mm X 400mm X 75 mm thickness.
- \* The post is reinforced with 8 mm rod and 6 mm stirups @ 150mm c/c.
- \* Panels are reinforced with 8 mm rod and 6 mm stirups @ 150mm c/c.
- \* The post will be fixed to the ground by digging a hole of 600 X 600 X 1600 mm and filled with 1 : 3 : 6 concrete after the post has been aligned in these holes.
- \* The post will be erected @ 2.500 m. centre to centre.
- \* Manufactured by using M-25 grade of concrete.

# COMPARISON RCC WALL VS BRICK WALLS

PROPERTIES	RCC BOUNDARY WALLS	TRADITIONAL BRICK WALL	ADVANTAGE
CONSTRUCTION TIME FOR ( 100 METER WALL )	CONSTRUCTED JUST <b>WITHIN 2 DAYS</b>	IT TAKES <b>AT LEAST 7 DAYS</b> TO CONSTRUCT AND ANOTHER 7 DAYS FOR WATER CURING	RCC WALLS SAVES PRECIOUS CONSTRUCT TIME
STRENGTH	RCC PANELS CONSISTS OF HIGH TENSILE WIRE AT EVERY 75 MM DISTANCE AND CAN BE CUT ONLY BY MECHANICAL MEANS	THE <b>WEAKEST PART</b> OF THIS WALL IS THE <b>150MM THICK BRICK MASONRY</b> WHICH CAN BE EASILY BROKEN BY ORDINARY HAND TOOLS	RCC WALLS PROVIDE BETTER SECURITY FOR ANY CAMPUS / COMPOUND
LONG LASTING	<b>HIGH DURABILITY</b> AS RCC PANELS ARE MADE FROM SUPERIOR QUALITY OF CONCRETE AND STEEL MATERIALS	<b>WEAK IN NATURE</b> AS IT DEPENDS ON THE QUALITY OF THICKNESS, QUALITY OF SANDS, SPAN OF CURING, THE ART OF WORKMANSHIP	RCC WALLS REQUIRE ALMOST NIL MAINTAINENCE
RE-STABILITY	<b>CAN BE MOVED EASILY FROM ONE PLACE TO ANOTHER WITHOUT LOOSING THE STRENGTH AND QUALITY.</b>	IS BROKEN EASILY DURING MOVEMENT STARTING FROM DESTRUCTION TO RE-CONSTRUCTION ALMOST <b>50 % IS DAMAGED IN TERMS OF QUALITY AND QUANTITY</b>	RCC WALLS GET STABLED QUICKLY AS IF NEW WALLS ARE BEING MADE
PRICING	<b>CHEAPER</b> AS IT IS MAINLY CAPITAL INTENSIVE	<b>COSTLIER</b> AS IT IS MAINLY LOBOUR INTENSIVE	SAVES MONEY FOR FOR LONG TERM

## RATE COMPARISON CHART AS ON SEPT. 2017

CALCULATION OF 100 Rft. (L) with 8 ft. (H)

RCC BOUNDARY WALLS	TRADITIONAL BRICK WALL
PILLARS AND SLAB <b>Rs. 58330/-</b>	11 NOS. PILLAR (10"X10"X12") @ DISTANCE OF 10 FT WITH 10MM & 6MM STIRRUPS REINFORCED <b>Rs. 20150/-</b>
TRANSPORTATION, LOADING, UNLOADING WITH IN 100KMS. AREA. <b>Rs. 7150/-</b>	11 NOS. PILLAR BASE (2'X2') 5MM THICK 10MM AND 6MM STIRRUPS REINFORCED <b>Rs. 3990/-</b>
FITTING/ERECTION COST <b>Rs. 12000/-</b>	LINTEL 10" X 10" X 100 RFT 10MM & 6MM STIRRUPS REINFORCED <b>Rs. 23190/-</b>
CEMENT, SAND, AGGREGATE FOR FIXING <b>Rs. 4550/-</b>	BRICK ( 220 X 110 X 75)MM 3060 NOS. <b>Rs. 18360/-</b>
	LABOUR @ 400 RFT 8 FT HEIGHT . <b>Rs. 40000/-</b>
	PLASTERING & BRICK FIXING (10 BAGS CEMENT, 65 CFT SAND) <b>Rs. 3590/-</b>
<b>TOTAL Rs. 82030/-</b>	<b>TOTAL Rs. 109280/-</b>
MAJOR ASSUMPTION : SAND @ Rs. 6/- PER CFT *(1 CFT = 40 KGS) AGGREGATE @ Rs. 30/- PER CFT CEMENT @ Rs. 320/- PER BAG TMT @ Rs. 50/- PER KG.	
**(TAXES EXTRA)	

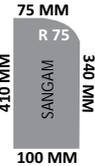
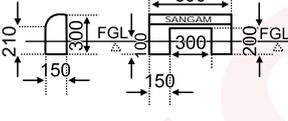
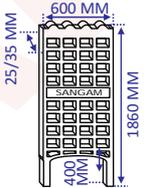
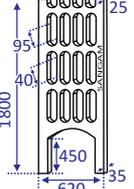
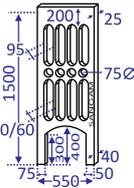
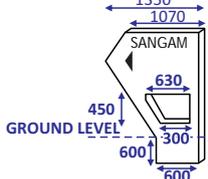
**SAVE UPTO**  
**33%**

## BOUNDARY WALL PRICE

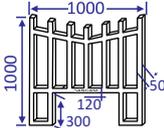
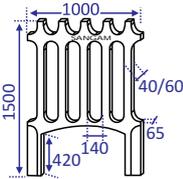
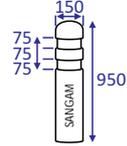
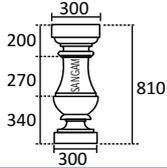
Sl. No.	PARTICULARS & SPECIFICATION	HEIGHT	PRICE PER RUNNING MTR.
1.	Precast RCC Boundary Wall (With 8ft./7ft. Slab)	6ft.	Rs. 2690/-
2.	Precast RCC Boundary Wall (With 8ft./7ft. Slab)	8ft.	Rs. 2990/-
3.	Precast RCC Boundary Wall (With 8ft./7ft. Slab)	9ft.	Rs. 3090/-

\*\* RATES ARE EX-FACTORY, GST & TRANSPORTATION CHARGES EXTRA AS APPLICABLE.\*\*

## KERB STONE SIGN BOARD ETC.

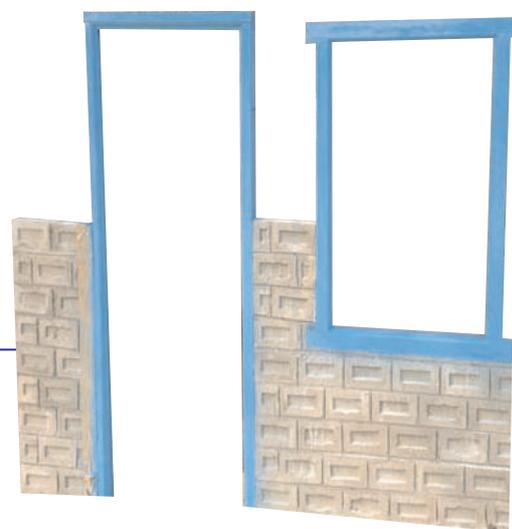
SL. NO	PRODUCT	PRODUCT SPECIFICATION	PRICE
1	 	560 X 300 X 150 MM STEP SHAPE, Wt per pc = 50kgs.	Rs. 170/-
2	 	410 X 300 X 150 TOP CURVE, Wt per pc = 45kgs.	Rs. 140/-
3	 	500 X 300 X 200 TOP TAPER, Wt per pc = 70 kgs.	Rs. 195/-
4	 	410 X 300 X 100 TOP CURVE, Wt per pc = 30 kgs.	Rs. 99/-
5	 	300 X 300 X 150 TOP CURVE, Wt per pc = 30 kgs	Rs. 99/-
6	 	600 X 300 X 150 Wt per pc = 50 kgs.	Rs. 279/-
7	 	250 X 300 X 150 TOP CURVE, Wt per pc = 50 kgs.	Rs. 99/-
8	 	<ul style="list-style-type: none"> <li>* Consist of 4 nos of panel of size : 1860 mm (H) x 600 mm (W) x 25/30 mm Thick.</li> <li>* Size of opening : 100 mm x 100 mm.</li> <li>* Suitably Reinforced to promote long use and prevent damage while transportation.</li> <li>* M- 30 GRADE OF CONCRETE USING VIBRO COMPACTION.</li> <li>* Weight per set 172 kg.</li> </ul>	Rs. 2700/-
9	 	<ul style="list-style-type: none"> <li>* Consist of 4 nos of panel of size : 1800 mm (H) x 620 mm (W) x 25/35 mm Thick.</li> <li>* Suitably Reinforced to promote long use and prevent damage while transportation.</li> <li>* M- 30 GRADE OF CONCRETE USING VIBRO COMPACTION</li> <li>* Weight per set 160 kg.</li> </ul>	Rs. 2700/-
10	 	<ul style="list-style-type: none"> <li>* Consist of 4 nos of panel of size : 1500 mm (H) x 550 mm (W) x 25/40 mm Thick.</li> <li>* Suitably Reinforced to promote long use and prevent damage while transportation.</li> <li>* M- 30 GRADE OF CONCRETE USING VIBRO COMPACTION</li> <li>* Weight per set 160 kg.</li> </ul>	Rs. 2700/-
11	 	<ul style="list-style-type: none"> <li>• Overall Dimensions: 1950 MM X 1350 MM X 65 MM</li> <li>• All components are reinforced suitably for long use and to prevent damage during handling, transportation, and erection</li> <li>* M- 30 GRADE OF CONCRETE</li> <li>* Weight per set 700 kg.</li> </ul>	Rs. 4800/-

**\*\* RATES ARE EX-FACTORY, GST & TRANSPORTATION CHARGES EXTRA AS APPLICABLE.\*\***

SL. NO	PRODUCT	PRODUCT SPECIFICATION	PRICE
12	FENCING V SHAPE 	 <b>Overall Dimensions:</b> 1000mm (Height) X 1000mm (Length) X 50mm (thickness) <b>Manufactured</b> with M 30 grade of concrete . Suitably reinforced to promote long use and to prevent damage during handling, transportation & erection. Weight per pc 43 kg	Rs. 850/-
13	FENCING MAJESTIC 	 <b>Overall Dimensions:</b> 1500mm (Height) X 1000mm (Length) X 65mm (thickness) <b>Manufactured</b> with M 30 grade of concrete . Suitably reinforced to promote long use and to prevent damage during handling, transportation & erection. Weight per pc 84 kg	Rs. 1150/-
14	CYLINDRICAL BOLLARD 	 <b>Overall Dimensions:</b> 950 mm Height X 150 mm dia, The bollard is reinforced with 4 Nos 8 mm dia 950 mm long tor steel bars, 4 Nos 12 mm dia 450 mm long tor steel bars, & 4 Nos 4 mm dia stirrups at 150mm c/c. The bollard is manufactured with cement concrete of M-30 grade, Weight per pc 38 kg	Rs. 690/-
15	BALUSTER 	 <b>Overall Dimensions:</b> 810 mm Height bottom width 300 mm. Colour available Grey. Grade M-25 Weight per pc 132 kg	Rs. 1190/-
16	COVER BLOCK / SPACER 	<b>Overall Dimensions:</b> 20 / 25 / 40 / 50 MM	As per Specification

## R. C. C. DOOR & WINDOW FRAMES

Size	Weight	Thickness	Rate (Per Set)
<b>Door Frames (Single)</b>			
7' X 3'	65 kgs	4" X 2 1/2"	1690/-
7' X 3 1/4'	67 kgs		1690/-
6 1/2' X 3'	54 kgs		1620/-
6 1/2' X 2 1/2'	53 kgs		1620/-
<b>Door Frames (Double)</b>			
7' X 3'	80 kgs	5" X 3"	1930/-
7' X 3 1/4'	82 kgs		1930/-
7' X 3 1/2'	85 kgs		1930/-
<b>Door Frames (Designer)</b>			
7' X 3'	93 kgs	5" X 3"	1990/-
7' X 3 1/4'	94 kgs		1990/-
7' X 3 1/2'	96 kgs		1990/-
<b>Window Frames</b>			
4' X 3'	74 kgs	5" X 3"	1990/-
5' X 4'	125 kgs	5" X 3"	2450/-



\*\* RATES ARE EX-FACTORY, GST & TRANSPORTATION CHARGES EXTRA AS APPLICABLE. \*\*

# R.C.C. SPUN PIPE

(AS PER IS - 458-1988)

<b>R.C.C. SPUN PIPES &amp; MATCHING COLLARS CLASS NP - 2 ( AS PER IS-458-2003)</b>						
Bore dia in inches	Bore dia in Millimeters	Thickness	Standard Length 1.25 mtrs	Standard Length 2.00 mtrs	Standard Length 2.5 mtrs	Matching Collar
			Rs.	Rs.	Rs.	
12	300	30 mm	1186.00	1723.00	2154.00	220.00
18	450	35 mm	1407.00	-----	2583.00	322.00
24	600	45 mm	1971.00	-----	3637.00	475.00
30	750	50 mm	2905.00	-----	5366.00	706.00
36	900	55 mm	3685.00	-----	6802.00	902.00
42	1050	60 mm	4908.00	-----	8683.00	1054.00
48	1200	70 mm	5656.00	-----	10335.00	1392.00
66	1650	80 mm	11899.00	-----	21638.00	2352.00
72	1800	90 mm	12662.00	-----	23024.00	2675.00
<b>R.C.C. SPUN PIPES &amp; MATCHING COLLARS CLASS NP - 3 ( AS PER IS-458-2003)</b>						
12	300	45 mm	-----	-----	3562.00	280.00
18	450	75 mm	-----	-----	4035.00	395.00
20	500	75 mm	-----	-----	5030.00	416.00
24	600	85 mm	-----	-----	6063.00	456.00
36	900	100 mm	-----	-----	10201.00	699.00
39	1000	115 mm	-----	-----	11762.00	1227.00
48	1200	120 mm	-----	-----	17908.00	1460.00
<b>R.C.C. SPUN PIPES &amp; MATCHING COLLARS CLASS NP - 4 ( AS PER IS-458-2003)</b>						
18	450	75 mm	-----	-----	5448.00	-----
20	500	75 mm	-----	-----	6790.00	-----
24	600	85 mm	-----	-----	8186.00	-----
36	900	100 mm	-----	-----	13772.00	-----
39	1000	115 mm	-----	-----	15813.00	-----
48	1200	120 mm	-----	-----	24176.00	-----
<b>HUME PIPES SEPTIC TANKS</b>						

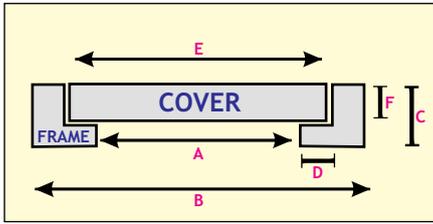
**For 10 Users (ID 600 mm) Rs. 7644.00**  
**For 15 Users (ID 750 mm) Rs. 9173.00**  
**For 25 Users (ID 900 mm) Rs. 10702.00**  
**For 35 Users (ID 1050 mm) Rs. 12230.00**  
**For 40 Users (ID 1200 mm) Rs. 13759.00**  
**For 100 Users (ID 1800 mm) Rs. 30516.00**



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**WE CUSTOMIZE PRODUCT SUBJECT TO BULK QUANTITIES (WE DON'T SAY "NO" IN RESPONSE TO BIG IDEAS)**



# MANHOLE COVER & DRAIN

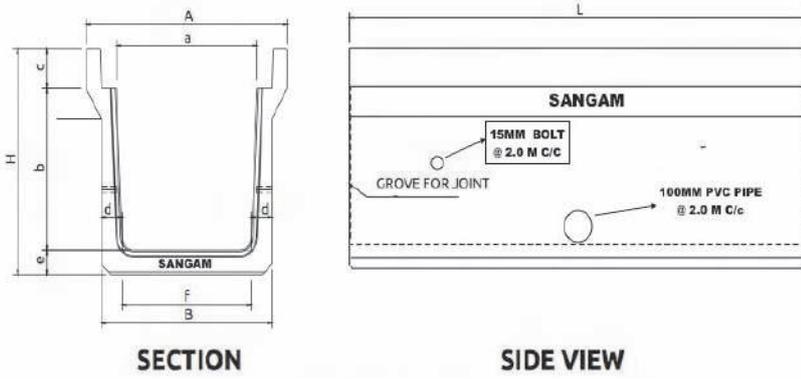
PRODUCT DESCRIPTION	PRODUCT CODE	CLEAR OPENING	FRAME OVERALL SIZE MM	FRAME SIZE THICKNESS	SEAT THICKNESS	COVER DIAMETER MM	COVER THICKNESS	RATE Rs. (Each Set)
		(A)	(B)	(C)	(D)	(E)	(F)	
EXTRA HEAVY DUTY Test Load- 35 MT As Per IS : 12592 Part I & II	<b>SPCP - 1 (CIRCULAR)</b>	560 DIA	875 DIA	175	75	725 DIA	100	2725 /-
HEAVY DUTY Test Load- 20 MT As Per IS : 12592 Part I & II	<b>SPCP - 2 (CIRCULAR)</b>	560 DIA	875 DIA	155	75	725 DIA	80	2400/-
	<b>SPCP - 3 (SQUARE)</b>	600 X 600	840 X 840	130	50	710 X 710	80	2725/-
	<b>SPCP - 4 (RECTANGLE)</b>	600 X 450	900 X 750	155	75	760 X 615	80	2560/-
MEDIUM DUTY Test Load- 10 MT As Per IS : 12592 Part I & II	<b>SPCP - 5 (CIRCULAR)</b>	560 DIA	770 DIA	110	50	670 DIA	60	1490/-
	<b>SPCP - 6 (CIRCULAR)</b>	500 DIA	710 DIA	110	50	610 DIA	60	1390/-
	<b>SPCP - 7 (SQUARE)</b>	600 X 600	810 X 810	100	50	710 X 710	50	1890/-
	<b>SPCP - 8 (RECTANGLE)</b>	600 X 450	810 X 660	100	50	710 X 560	50	1490/-
	<b>SPCP - 9 (RECTANGLE)</b>	900 X 550	1200 X 850	135	65	990 X 640	70	3550/-
LIGHT DUTY SQ. TEST LOAD - 2.5 MT As Per IS : 12592 Part I & II	<b>SPCP - 10 (SQUARE)</b>	450 X 450	610 X 610	80	40	500 X 500	40	990/-
LIGHT DUTY RECT. TEST LOAD - 2.5 MT As Per IS : 12592 Part I & II	<b>SPCP - 11 (RECTANGLE)</b>	600 X 450	780 X 630	80	40	665 X 520	40	1350/-
ROAD GULLY	<b>SPRG - 12</b>	500 X 450	680 X 630	120	50	570 X 520	70	1390/-
	<b>SPRG - 13</b>	500 X 450	680 X 630	150	50	570 X 520	100	1790/-
	<b>SPRG - 14</b>	600 X 300	780 X 480	120	50	670 X 370	70	1390/-
GULLY TRAP	<b>SPGT - 15</b>	260 X 260	390 X 390	80	40	300 X 300	40	425/-



**\*\* RATES ARE EX-FACTORY, GST & TRANSPORTATION CHARGES EXTRA AS APPLICABLE.\*\***

# SANGAM CABLE TRENCH CUM PRECAST DRAIN

## SANGAM TRENCH DIMENSIONS WITH DIAGRAM

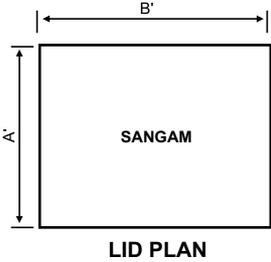


Site: L&T FATAPUKUR (W.B) FOR MARUTI STOCKYARD



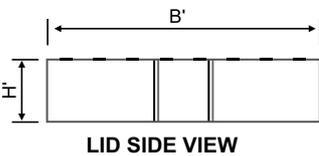
Size(mm) B x H	Dimensions of u shape drain (mm)										Appx. Weight (Kg)	Price
	L	A	B	H	a	b	c	d	e	f		
500 x 300	2000	740	640	460	500	300	80	80	80	480	500	4200/-
700 x 300	2000	940	840	480	700	300	100	80	80	680	765	4850/-
900 x 300	2000	1140	1040	480	900	300	100	80	80	880	810	5190/-
1300 x 300	2000	1540	1440	480	1300	300	100	80	80	1280	1125	6190/-

## SANGAM SLAB DIMENSIONS FOR TRENCH

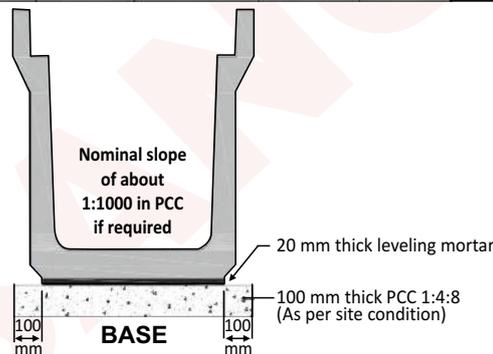


LID PLAN

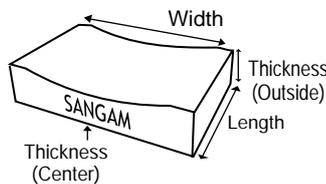
Size of Drain (mm)	Dimensions of Lid (mm)			Appx. Weight (Kg)	Price
	A'	B'	H'		
500 X 300	500	580	80	57	590/-
700 X 300	500	780	100	90	790/-
900 X 300	500	980	100	120	950/-
1300 X 300	500	1380	100	160	1250/-



LID SIDE VIEW



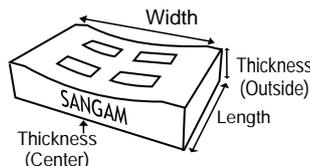
### SAUCER DRAIN 300X450X75/100



Overall Dimension :  
450mm(W) x 300mm(L)x75/100mm(T)  
\* M- 30 GRADE OF CONCRETE USING VIBRO COMPACTION

Rs. 190/-

### SAUCER DRAIN 300X450X75/100 (With holes)



Overall Dimension :  
450mm(W) x 300mm(L)x75/100mm(T)  
\* M- 30 GRADE OF CONCRETE USING VIBRO COMPACTION.  
\* Reinforcement with 12mm steel along the width and 8mm steel along the length.

Rs. 390/-

### PERFORATED DRAIN



Overall Dimension :  
A. 1400 x 1000 x 150 mm,  
B. 600 x 450 x 60 mm

\*\* RATES ARE EX-FACTORY, GST & TRANSPORTATION CHARGES EXTRA AS APPLICABLE.\*\*

# SANGAM CONCRETE ADMIXTURE ( PLASTICIZERS )



Plasticizers or water reducers, and super plasticizer or high range water reducers, are chemical admixtures that can be added to concrete mixtures to improve workability. Unless the mix is "starved" of water, the strength of concrete is inversely proportional to the amount of water added or water-cement (w/c) ratio. In order to produce stronger concrete, less water is added (without "starving" the mix), which makes the concrete mixture less workable and difficult to mix, necessitating the use of plasticizers, water reducers, super plasticizers or dispersants.

Adding 1-2% plasticizer per unit weight of cement is usually sufficient. Adding an excessive amount of plasticizer will result in excessive [segregation of concrete](#) and is not advisable. Depending on the particular chemical used, use of too much plasticizer may result in a retarding effect .

We have two types of Plasticizer

1. SMF ( sulfonated [melamine formaldehyde](#) )
2. [Polycarboxylate ether superplasticizer](#) (PCE)

1. To achieve a higher strength by decreasing the water cement ratio at the same workability as an admixture free mix.
2. To achieve the same workability by decreasing the cement content so as to reduce the heat of hydration in mass concrete.
3. To increase the workability so as to ease placing in accessible locations
4. Water reduction more than 5% but less than 12%

Sulphonated melamine formaldehyde condensates (SMF)

Give 16–25%+ water reduction. SMF gives little or no retardation, which makes them very effective at low temperatures or where early strength is most critical. However, at higher temperatures, they lose workability relatively quickly. SMF generally give a good finish and are colorless, giving no staining in white concrete. They are therefore often used where appearance is important.

Polycarboxylate ether superplasticizers (PCE)

Typically give 20–35%+ water reduction. They are relatively expensive per liter but are very powerful so a lower dose (or more dilute solution) is normally used.

In general the dosage levels are usually higher than with conventional water reducers, and the possible undesirable side effects are reduced because they do not markedly lower the surface tension of the water.

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# SANGAM CONCRETE LACQUER POLISH/ SEALANT FOR CONCRETE PAVER BLOCK, TILES & OTHER ALLIED PRODUCTS



We are offering our customers this expensive and highly recommended range of best quality Paver Lacquer. This is a chemical additive, which reduces as well as hinders foam formation in industrial process liquids. We have manufactured this range from best quality raw material and have also ensured that the substance is environment friendly as well as provides ample of luster along with dust resistance. Various pigments can be added to it before its applications.

Paver sealers/ Lacquer have 3 main functions:

- Seal and protect the pavers from UV degradation and fading.
- Enhance to pavers by either adding a wet look, shine or both.
- Solidify or stabilizing the jointing sand in between the individual stones

What is Paver Block:

Interlocking concrete pavements or pavers are a special dry mix pre-cast piece of concrete commonly used in handicapping pavement applications. Unit Pavements or block paving, nicknamed pavers in the United States were developed. Pavers can be used in a variety of settings. Whether you're building walkways, patios, driveways or pool decks, side-walks, garden paths, even porch floors. This paver needs good strength, proper shape, for all its properties Hardener (plasticizer) should be used. Our hardener (plasticizer) is best for paver block industries, it gives good work ability. Good strength in very short time, Get short time for de-moulding no damage of your paver block, no effect on paver block color

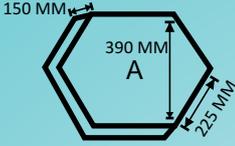
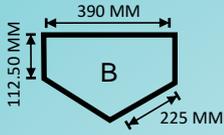
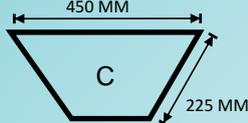
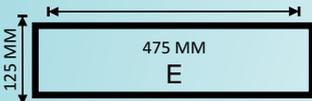
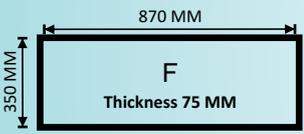
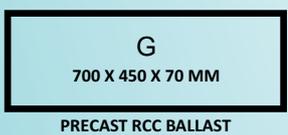
Paver Block Coating Lacquer:

We are manufacturing of high gloss, and best quality lacquer coating, they give more coverage area and give more shining with reflective surface.

It is applying on Cement Concrete Block, Paver block, Reflective interlocking glossy block, Mangalore Tiles It is high Glossy and good shiner for paver block, Nail proof quality.

**\*\* RATES ARE EX-FACTORY, GST & TRANSPORTATION CHARGES EXTRA AS APPLICABLE. \*\***

# HEXAGONAL RAILWAY CROSSING PAVER BLOCK

PRODUCT	Area Per Pc. in Sq. Mtr.	No. Pcs in Sq. Mtr.	Rates for HYDRAULIC PAVERS (Per Sq. Mtr.)	Rates for VIBRO PAVERS (Per Sq. Mtr.)	Weight (Per Kg.)
	0.1315	7.60	1100/-	1250/-	44
	0.0658	15.20	1100/-	1250/-	22
	0.0658	15.20	1100/-	1250/-	22
	0.0959	10.50	1100/-	1250/-	33
	0.0593	16.80	1100/-	1250/-	23
	0.3045	03.28	----	400/-	60
	0.315	03.174	-----	500/-	52

WT. PER SQ. MTR. = 350 KG. APPROX



AVAILABLE COLOURS : GREY

\*\* RATES ARE EX-FACTORY, GST & TRANSPORTATION CHARGES EXTRA AS APPLICABLE.\*\*

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WE CUSTOMIZE PRODUCT SUBJECT TO BULK QUANTITIES (WE DON'T SAY "NO" IN RESPONSE TO BIG IDEAS)

## 2 ROOM WITH 1 SEPARATE TOILET

# PRE-FABRICATED FACTORY MADE GANG TOOL ROOM (HUT) WITH TOILET & 4' HEIGHT BOUNDARY WALL



Precast RCC Gang Tool Room Consists of

1. 2 Nos Rooms with precast racks and benches
2. An Open Verandah,
3. A precast concrete toilet

and surrounded by 4' height precast heavy duty boundary wall

\*The size of 1(one) room is 9'6" x 11'9" with a height of 8'6" and another room is of size 9'6" x 14'6" with a height of 8'6".

The building is made with precast RCC – 25 Grade column & Beam (150 mm x 150 mm) , Precast RCC M-25 Grade Panel wall (2400 mm x 300 mm x 50 mm thick)

MS Door made of M.S. Plate (1 mm thick), framed with M.S. Angle. All Parts are to be joined together with galvanized nuts and bolt. This unit will be included and fitted completely with IPS Flooring.

An Open Verandah with colored galvanized sheet & M.S. Angle under structure of the size 5' x 11'9" to be provided with IPS flooring.

The Toilet will be of 1 mtr x 1 mtr x 2.150 m height made with precast RCC – 25 Grade framed structure (of section 75 mm x 75 mm), Precast RCC M-25 Grade Panel wall (25 mm thick) and Precast RCC M-25 Grade base panel (50 mm thick) and suitable size M.S Door made with 1 mm sheet and M.S. angle frame is fitted. The unit will be included and fitted with anti skid ceramic tiles on floor and wall (0.900 height), sanitation, plumbing accessories i.e 01 No. Bib cock required water supply pipe line (inside supply only), 01 No 200 ltr water storage PVC Tank.

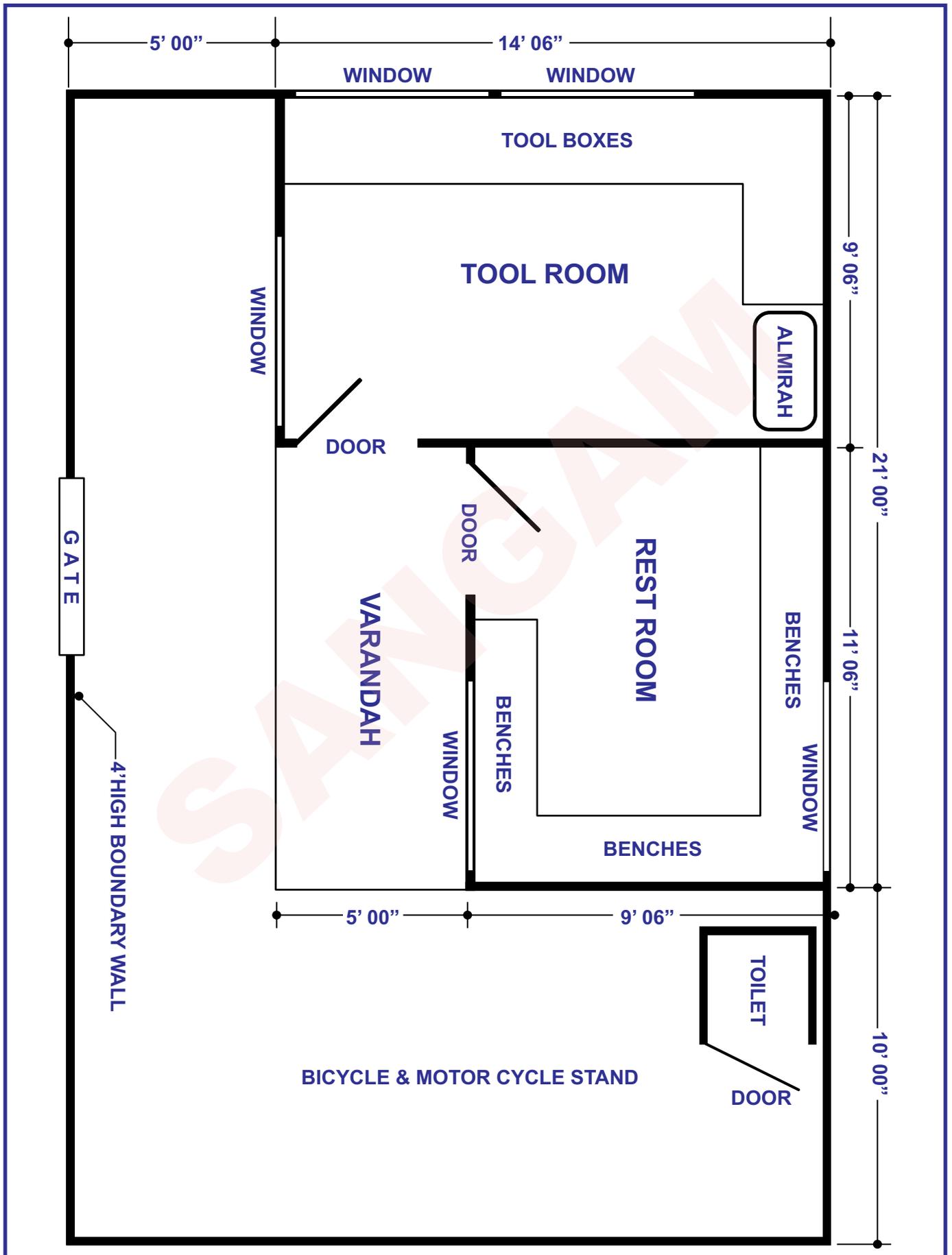
For waste management - Twin Chamber of each .0.750 mm, Dia 0.900 mm depth made with precast RCC M-20 Tank and LID of 30 mm thickness.

Outside Screen wall of 4' height and 167' in length made with precast RCC – 25 Grade column & Beam (150 mm x 150 mm x 1800 mm) , Precast RCC M-25 Grade Panel wall (2400 mm x 300 mm x 50 mm thick) M.S.Gate with 25 mm x 25 mm square bar (2.4 mtr x 1.5 mtr).

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**WE CUSTOMIZE PRODUCT SUBJECT TO BULK QUANTITIES (WE DON'T SAY "NO" IN RESPONSE TO BIG IDEAS)**

**DRAWING OF 2 ROOM WITH 1 SEPARATE TOILET  
PRE-FABRICATED FACTORY MADE GANG TOOL ROOM (HUT)  
WITH TOILET & 4' HEIGHT BOUNDARY WALL**



# 3 ROOM WITH 1 SEPARATE TOILET AND 1 ATTACHED TOILET PRE-FABRICATED FACTORY MADE GANG TOOL ROOM (HUT) WITH TOILET & 4' HEIGHT BOUNDARY WALL



Precast RCC Gang Tool Room Consists of

1. 3 Nos Rooms with precast racks and benches
2. An Open Verandah,
3. A precast concrete toilet

and surrounded by 4' height precast heavy duty boundary wall

\*The size of 2 (TWO) room is 9'6" x 11'9" with a height of 8'6" and another room is of size 9'6" x 14'6" with a height of 8'6".

The building is made with precast RCC – 25 Grade column & Beam (150 mm x 150 mm) , Precast RCC M-25 Grade Panel wall (2400 mm x 300 mm x 50 mm thick)

MS Door made of M.S. Plate (1 mm thick), framed with M.S. Angle. All Parts are to be joined together with galvanized nuts and bolt. This unit will be included and fitted completely with IPS Flooring.

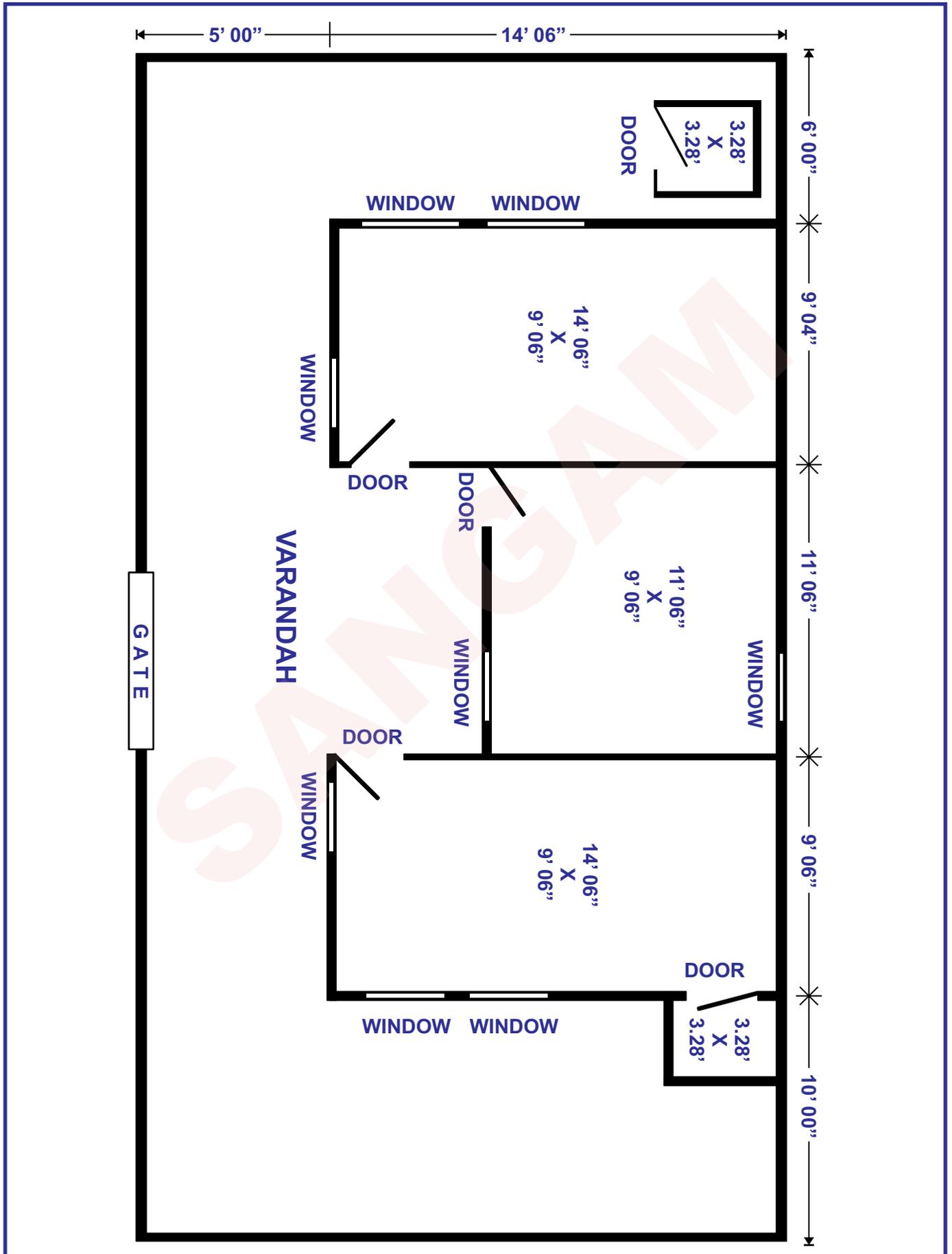
An Open Verandah with colored galvanized sheet & M.S. Angle under structure of the size 5' x 11'9" to be provided with IPS flooring.

The Toilets will be of 1 mtr x 1 mtr x 2.150 m height made with precast RCC – 25 Grade framed structure (of section 75 mm x 75 mm), Precast RCC M-25 Grade Panel wall (25 mm thick) and Precast RCC M-25 Grade base panel (50 mm thick) and suitable size M.S Door made with 1 mm sheet and M.S. angle frame is fitted. The unit will be included and fitted with anti skid ceramic tiles on floor and wall (0.900 height), sanitation, plumbing accessories i.e 01 No. Bib cock required water supply pipe line (inside supply only), 01 No 200 ltr water storage PVC Tank.

For waste management - Twin Chamber of each 0.750 mm, Dia 0.900 mm depth made with precast RCC M-20 Tank and LID of 30 mm thickness.

Outside Screen wall of 4' height and 167' in length made with precast RCC – 25 Grade column & Beam (150 mm x 150 mm x 1800 mm), Precast RCC M-25 Grade Panel wall (2400 mm x 300 mm x 50 mm thick) M.S.Gate with 25 mm x 25 mm square bar (2.4 mtr x 1.5 mtr).

**3 ROOM WITH 1 SEPARATE TOILET AND 1 ATTACHED TOILET  
PRE-FABRICATED FACTORY MADE GANG TOOL ROOM (HUT)  
WITH TOILET & 4' HEIGHT BOUNDARY WALL**



# PRECAST REINFORCED CONCRETE RAILWAY READYMADE PLATFORM WALL

The traditional platform construction can be replaced with an Sangam Prefab precast platform wall. This can be combined with Sangam Prefab Platform Coping to provide an off-site solution to the traditional construction method.

This reduces labour and time on-site, while providing a cost effective working platform.

Removing the need for masonry work, a precast railway platform wall can be a more efficient construction system that can be installed with greater speed

We are presently engaged in manufacturing of 3 types of Railway platform wall

1. For Low Level Platform
2. For High Level Platform PANEL 1
3. For High Level Platform PANEL 2

## For Low Level Platform



## For High Level Platform PANEL 1

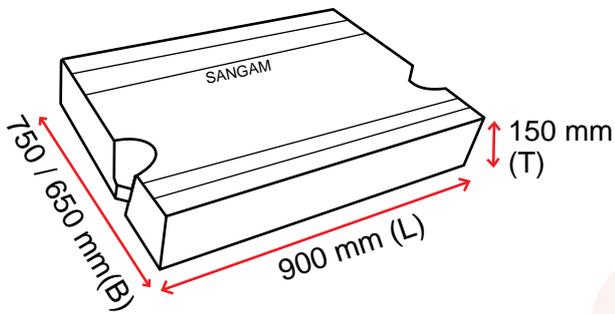


## For High Level Platform PANEL 2



**NOTE :** Panel 2 is used often 15–30 nos of Panel 1, As per site demand.

## INDIAN RAILWAY PLATFORM COPING USED WITH PRECAST RAILWAY PLATFORM AS PER RDSO DRAWING



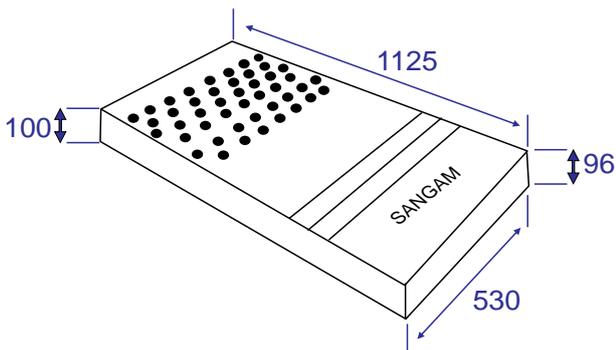
**Weight – 240 kg.**

**Sizes available –**

(A) 900 x 750 x 150 mm — Rs. 1690/-

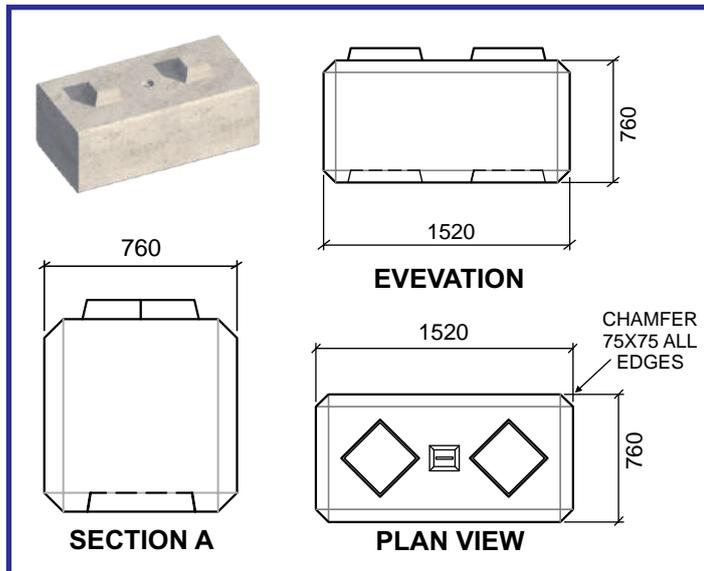
(B) 900 x 650 x 150 mm — Rs. 1600/-

## INDIAN RAILWAY PLATFORM COPING USED ON EXISTING RAILWAY PLATFORM AS PER RDSO DRAWING



**Weight – 14 kg.**  
**Price – 1100/-**

# RETAINING BLOCKS



## Our Concrete Block products general dimensions:

1520mm Length, 760mm Height, 760mm Depth

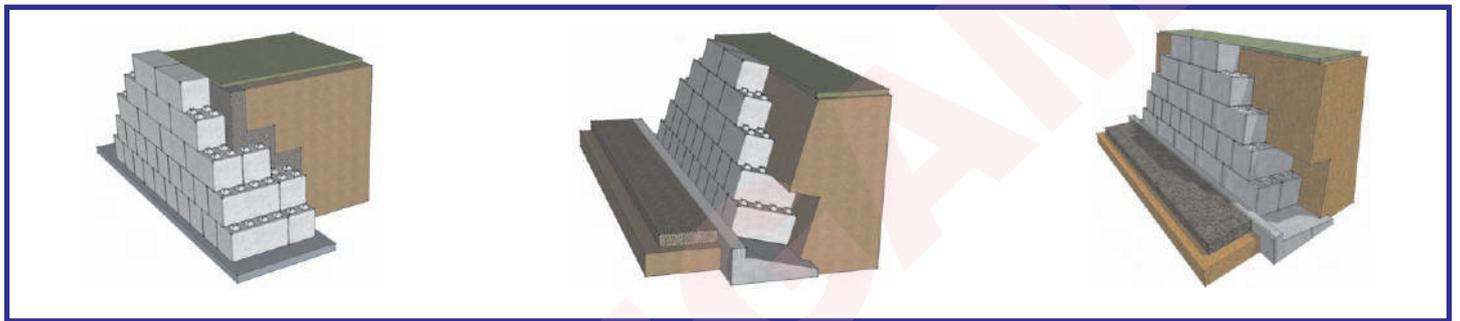
1860 kg Mass

Price – 8500/- per pc.

SANGAM concrete blocks also called "SANGAM Blocks" are designed for any commercial setting, industrial situation or environment, concrete blocks are often used in retaining wall systems and they can be utilized in a wide variety of ways, often acting as simple a barrier however this is only one of the many uses for this versatile product.

These concrete blocks are highly versatile and durable, no matter where you situate your blocks rest assured they will standing the test of time and protect, guide or barricade whatever you need them to. If you build a retaining wall to separate products, equipment or divide areas have faith knowing these block were produced at our state of the art facility. If you require a modification to one of these block, a unique length, block out, engineered concrete strength or the addition of an insert to enable the bolting on of signage etc speak to our sales team and see what we can innovate for you.

## RETAINING WALL USING BLOCKS



## FEW IMAGES AND IDEAS OF RETAINING WALL BLOCKS FIXED



# RIVERBANK PROTECTION WITH TETRAHYDRAL PORCUPINE SYSTEMS

Problems of river bank and in-stream erosion are very common in most of the rivers in India and abroad. Various attempts have been made to overcome excessive erosion by constructing river training works. Porcupine systems are one of the novel techniques which have been adopted as a cost-effective method of river training (PDF) Riverbank protection with Porcupine systems:

## INTRODUCTION

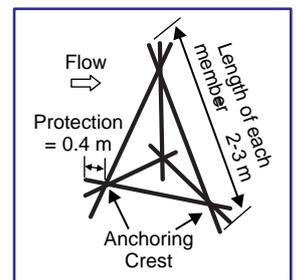
- River training is an art to protect the bank from erosion, changing the course, flood and sediment control etc.
- Most of the rivers have meandering behavior and rarely does a river follow a straight path due to excessive meandering and hence erosion in the outer bank. Some rivers tend to follow a completely new path. Various measures have been taken to control river bank and in-stream erosion by construction river training works such as submerged vanes, bank pitching, spurs, Groynes, guide vanes etc. Due to rising cost of these conventional river training works, developing countries like India have been adopting economic measures of river training. Permeable structures tend to be the least expensive to construction. Bandalling, board fencing, jack-jetty systems and tetrahedral frames are some of these cost-effective methods used for river training.

## FUNCTION OF PERMEABLE MEMBER

- Training the river along a desired course.
- Reducing the intensity of flow at the point of river attack.
- Creating a slack flow to induce siltation in the vicinity of the permeable structures and in the downstream reach.
- Providing protection to the bank by reducing the velocity of flow along the bank.
- Dissipating energy downstream of spurs through production of turbulence.
- The basic principle behind the permeable structure is to reduce the velocity by providing partial obstruction to the flow and thereby induce deposition of the sediment.

## PORCUPINE

A porcupine is a unit of the system (called elements) which comprises six members of RCC which are joined together with the help of iron nuts and bolts to form a tetrahedral frame. Each member is 2–4 m in length, depending upon the requirements. At the time of concreting of members, holes are kept in the RCC poles for the bolts. Reinforcement is given using 4 nos. of MS bars 6 mm diameter, with stirrups at 15 cm c/c. Larger porcupines may also be used with greater cross section and heavier reinforcement as per the requirements. Bolts are normally 12–15 mm diameter. Washers are required at both ends for better grip with the RCC members. RCC porcupines should be connected together wire rope and properly placed on the ground to avoid any disturbance caused by the intensity of flow.



## STRUCTURAL ELEMENTS

The elements used in the RCC porcupine screens / spurs are as under :

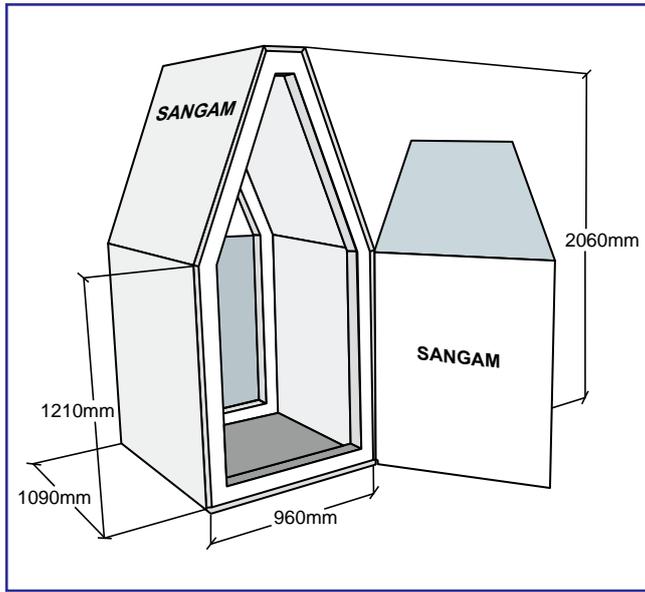
- Member : The porcupines are made of RCC, casted in-situ at the site or location near the site. Six members are used to construct one porcupine. The size of one member is kept as 3 m X 0.1 m X 0.1 m or 2 m X 0.1 m X 0.1 m. these members are joined with the help of nails.
- Nails : Standard commercially available nails of length 100 mm to 150 mm are used to join the porcupine members.
- GI Wire : 4 to 5 strands of 4 mm GI wire should be used for inter-connecting the porcupines and may be anchored with the ground. Alternatively,
- Use of nylon ropes instead of GI wires may also be tried, but these are susceptible to disintegration in presence of UV rays. In view of this, UV stabilized nylon ropes may be tried instead of GI wires due to their better usability and flexibility and non-corrosive behavior.

## PRINCIPLE

- The basic principle of porcupine protecting river bank is the decelerating effect of member bars which offer resistance to flow and hence cause reduction in velocity.
- The turbulence characteristics of flows passing through a porcupine and that it reduces the probability of sediment entrainment by retarding the flow and reducing the boundary shear stress. (Iu et al. (2011)). In addition, it may direction and increasing the energy dissipation.
- In addition to providing riverbank protection, porcupines can also be used for protection of bridge piers against scouring.

## M-25 grade of concrete

**Weight Per Pillar = 74 Kg.**  
**Price Per Pillar = 750/-**



We have introduced Precast RCC Toilet which is stronger, economical, easy to install and durable

#### **SPECIFICATION**

Overall dimensions: Height:2060mm (6ft 11inches);

Width: 960mm (3ft 2.4inches); Depth: 1210mm (4ft)

Weight once assembled is 750 kgs.

Frame and Panels are manufactured from RCC using M-30 grade of Concrete Panels are reinforced with 4x50x50mm welded wire mesh.

Door is manufactured from iron angle and 1 mm thick sheet. Side RCC panels are 25mm thick while the bottom panel is 40mm thick Suitable hinges are provided for the door to swivel.

All RCC components are reinforced suitably to promote long use and to prevent damage during handling & transportation.

For better and healthy life,  
SANGAM SWACHH TOILET is a MUST!

Price Per Set – Rs. 1250/-

## **DESIGN ADVANTAGES**

**We supply toilet structure, Indian style pan, Iron gate. Any extra item required will be charged extra.**

### **1. Superior Product**

Our Precast RCC Toilets are better than the toilets made with masonry work at site. Our Precast RCC Toilets give better floor area than the conventionally built toilets.

### **2. Custom Designs**

Our Precast RCC Toilets are made of reinforced cement concrete. Class 1 finish is achieved with perfect moulds and facia designs and logo can be incorporated at the time of casting.

### **3. Increased Life**

Our Precast Concrete RCC Toilets are made in RCC and RCC being highly durable, there isn't any problems like efflorescence, cracks etc. in our Readymade Toilets

## **CONSTRUCTION ADVANTAGES**

### **1. Quick Installation**

Installation of our Precast RCC Toilets is fast as no construction work is to be done at site.

### **2. Consistent Quality**

Our Precast RCC Toilets are made in the factory, control over the quality at the factory is better than the works done at site.

### **3. Lesser Cost**

The overall cost of our precast toilets is less than one made with masonry work.

## **IDEAL FOR INSTALLATION AT**

1. Across Highways
2. Urban Local Bodies Area
3. Municipal Committee Area
4. Large Industrial plots
5. Fuel / Gas Stations
6. Construction Sites
7. Village Houses
8. Government Schools



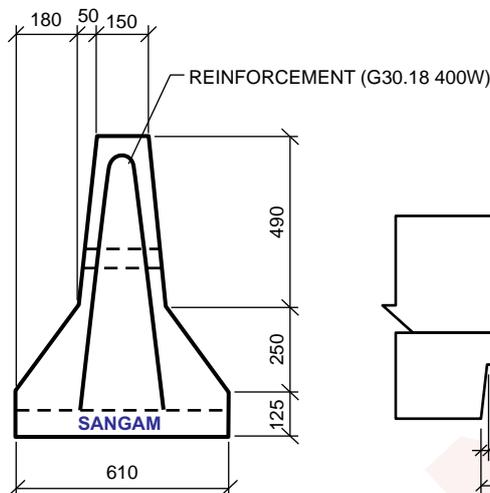
(27)

**WE CUSTOMIZE PRODUCT SUBJECT TO BULK QUANTITIES (WE DON'T SAY "NO" IN RESPONSE TO BIG IDEAS)**

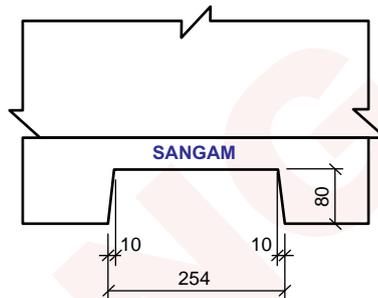
# HIGH QUALITY JERSEY BARRIERS

A Jersey barrier or Jersey wall is a modular concrete or plastic barrier employed to separate lanes of traffic. It is designed to minimize vehicle damage in cases of incidental contact while still preventing

The crossover case of a head-on collision. Jersey Barriers are also used to reroute traffic and protect pedestrians during highway construction, as well as temporary and semi-permanent protections against land borne attack such as suicide vehicle bombs. A Jersey barrier is also known in the western United States as K-rail, a term borrowed from the California Department of Transportation specification for temporary concrete traffic barriers, or colloquially as a Jersey bump. Plastic water barriers of the same general shape are also now commonly referred to as Jersey Barriers.



TYP. CROSS SECTION



TYP. FORK LIFT BLOCK OUT DETAIL

**NOTE:**

- M35 Grade at Con
- ALTERNATE LENGTHS AVAILABLE: 3048 (10'), 2438 (8'), 1829 (6'), 914 (3')
- FORK LIFT BLOCK OUT NOT AVAILABLE ON THE 3' LENGTHS
- LIFTING PINS AVAILABLE

Pls check spelling

## AVAILABLE IN 4 SIZE (LENGTH)

<p><b>1</b></p> <p>Wt per pc 1900 kg</p> <p><b>Rs. 15600/-</b></p> <p><b>10' SIDE VIEW</b></p>	<p><b>2</b></p> <p>Wt per pc 1500 kg</p> <p><b>Rs. 12480/-</b></p> <p><b>8' SIDE VIEW</b></p>
<p><b>3</b></p> <p>Wt per pc 1100 kg</p> <p><b>Rs. 9360/-</b></p> <p><b>6' SIDE VIEW</b></p>	<p><b>4</b></p> <p>Wt per pc 600 kg</p> <p><b>Rs. 4680/-</b></p> <p><b>3' SIDE VIEW</b></p>

# FLY ASH BRICKS



## OVERALL DIMENSIONS

**L - 9" x W - 4.5" x H - 3"**

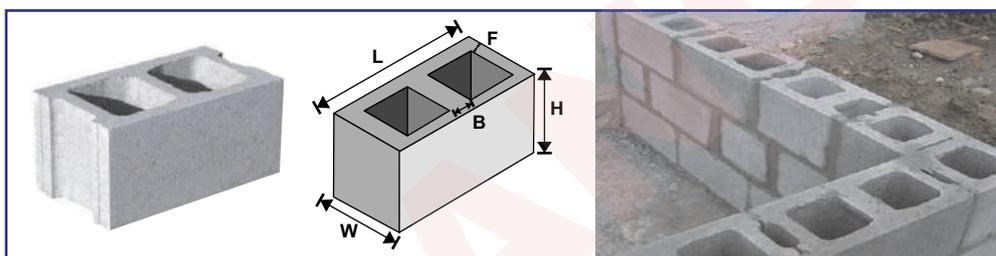
**PRICE : Rs. 7.20/- per pc**

**WEIGHT PER PC 3.400 KG**

## COMPARISON

<b>NORMAL CLAY BRICK</b>	<b>FLY ASH BRICK</b>
Varying colour as per soil	Uniform pleasing colour like cement
Uneven shape as hand made	Uniform in shape and smooth in finish
Lightly bonded	Dense composition
Plastering required	No plastering required
Heavier in weight	Lighter in weight
Compressive strength is around 35 kg/cm <sup>2</sup>	Compressive strength is around 100 Kg/cm <sup>2</sup>
More porous	Less porous
Thermal conductivity 1.25 – 1.35 W/m <sup>2</sup> °C	Thermal conductivity 0.91 – 1.05 W/m <sup>2</sup> °C
Water absorption 20 -25%	Water absorption 6 - 12%

## HOLLOW AND CONCRETE BRICKS



## OVERALL DIMENSIONS

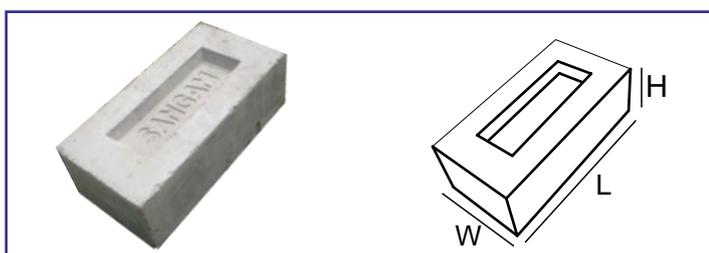
<u>L X H X W</u>	<u>Price</u>
A) 16" x 8" x 8" (24 kgs.)	33/- per pc
B) 16" x 8" x 6" (20 kgs.)	29/- per pc
C) 16" x 8" x 4" (16 kgs.)	26/- per pc

Hollow concrete blocks, concrete bricks. Concrete blocks are composed of Portland cement and aggregate, the blocks may use sand and gravel. The hollow concrete blocks are manufactured, hardened and cured before reaching the site and is a very durable and strong material.

The characteristics and advantages of using Hollow Concrete Blocks are –

- They have a uniform size and have two hollow cores within it which make it very light in weight.
- The cores comprise of air pockets which make it a very good for heat insulation.
- They are very good for acoustics and sound insulation.
- They are economical and cost effective.
- It has a rough texture which allows good bonding between the concrete blocks and the mortar.
- Good resistance against external weather conditions.
- The internal walls can have a reduced thickness as it is very strong.
- It is an ecofriendly material as fly ash can also be used to manufacture these blocks.
- Cement Masonry Units are fire resistant.

## CONCRETE BRICKS



## OVERALL DIMENSIONS

**L - 9" x W - 4.5" x H - 3"**

**PRICE : Rs. 5.20/- per pc**

**WEIGHT PER PC 3.900 KG**

# SANGAM PRECAST CONCRETE CABLE COVERS

- Protective barrier against damage to buried electricity cables.

Concrete Cable Protection Cover Tiles, also known as Cable Route Markers, are used frequently by utility companies to provide a clear indication to site staff who may be working close to underground electrical cables.

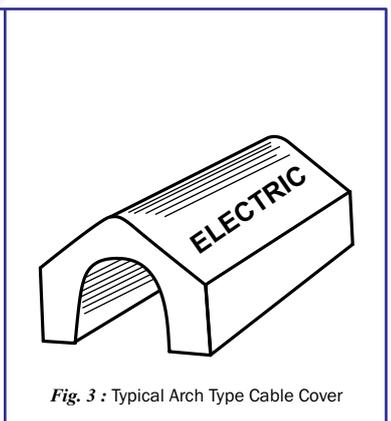
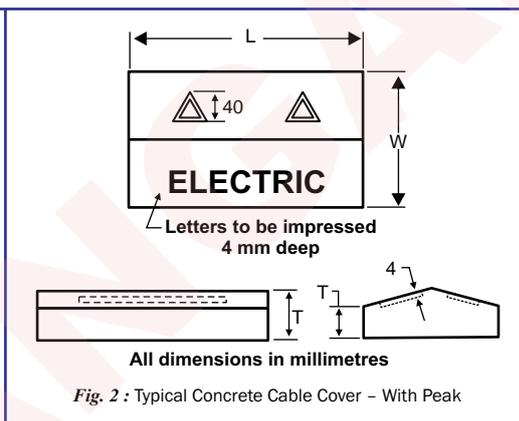
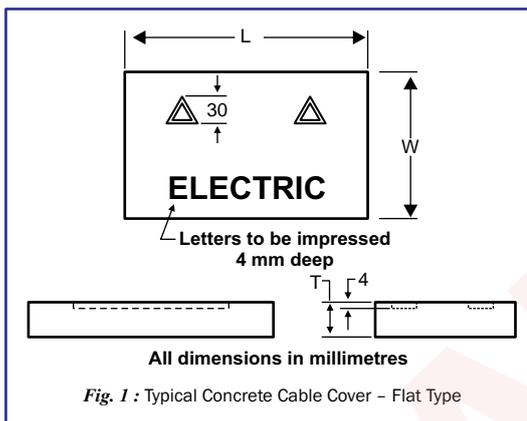
Covers act as a protective barrier against damage to buried electricity cables eliminating the risk of accidents and costly repairs. They can also be used to locate and identify other underground services.

Concrete Cable Protection Cover are manufactured to IS 5820-1970 and imprinted as standard with the indented lettering warning legend "ELECTRIC". The precast cable cover generally of two Types namely with Peak and Flat.

The precast concrete cable covers may be reinforced or unreinforced depending on the user requirements. Reinforced concrete cable covers forced concrete cable covers. Whether the concrete cable cover is to be reinforced or unreinforced should be decided based upon the type of protection required by the user. Use of unreinforced precast concrete cable cover is recommended for situations of secondary importance or where the danger from pick-axing are not significant.

The precast concrete cable covers generally are of two types namely with peak and flat (see Fig. 1 and Fig. 2). Precast concrete cable covers shall be classified as under :

Class	Description of cable covers	Conditions where normally uses
EHV	Reinforced precast concrete, with peak	For underground power cables of voltage rating 22 kV and 33 kV
HVP	Unreinforced precast concrete, with peak	For power cables of voltage rating above 1.1 kV excluding 22 kV and above
HV	Unreinforced precast concrete, flat	For power cables up to and including 1.1kV
LV	Unreinforced precast concrete, flat	



Arched type cable covers are also sometimes used, a typical design of which is shown in Fig. 3. These cable covers may be manufactured with suitable changes in dimensions to conform to the other dimensions of the standard.

## DIMENSIONS AND MINIMUM AVERAGE BREAKING LOAD OF PRECAST CONCRETE CABLE COVERS

Sl. No.	Class	Type No.	Shape	Dimensions in Millimetres				Minimum Average Breaking Load for Unreinforced Covers Kg.
				L	W	T	T	
1	EHV	1	With Peak	450	230	50	75	450
		2	With Peak	600	230	50	75	750
2	HVP	1	With Peak	300	180	40	65	300
		2	With Peak	450	180	40	65	350
3	HV	1	Flat	300	180	40	-	300
		2	Flat	450	180	40	-	350
4	LV	1	Flat	250	150	40	-	200
		2	Flat	300	180	40	-	200
		3	Flat	450	180	40	-	200

# OUR ESTEEMED CUSTOMER



West Bengal  
Tourism Department



**AmbujaRealty**



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## Company Address :-

P.O. Ethelbari, Dist. Alipurduar (W.B.)

✉ info@sangamconcrete.com, www.sangamconcrete.com

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 Lavish.Madiya, iphonemaddy

## Sister Concern :-

### **ETHELBARI STONE CRUSHER**

Contact us for Bulk Quantity of Superior Quality Crushed Stone Chips of any size.