

No. 367/PW/AE/SBSD-IV/JE-I/2021  
OFFICE OF THE ASSISTANT ENGINEER  
SPECIAL BUILDINGS SUB - DIVISION - IV  
PWD., ANNA NAGAR, PUDUCHERRY

Puducherry. Date: 01/01/21

To

The State Project Officer,  
Samagra Shiksha,  
PKC Educational Complex,  
Anna Nagar, Puducherry.

Sir,

Sub: PW - SBSB - IV - Construction of Civil Works -  
Unit cost on (PSR) Rate - Report furnished - Reg.

Ref : No.1926/SS/UC/2019-20, dt.13/01/2020.

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With reference to the above, the estimates for unit cost for the Construction of various components as scheduled below have been prepared and as such the unit cost for each unit as requested vide letter cited under reference above are furnished below.

Sl. No.	Name of the Civil work	Cost per unit (in lakhs)
1	Additional Class room (with furniture for 40/50 students.	17.36
2	Head Master room	17.35
3	Office cum Store room	17.35
4	Computer Room	48.48
5	Library room	25.60
6	Art & Culture room	25.60
7	Integrated Science Laboratory	48.89
8	Biology Laboratory	48.89
9	Physics Laboratory	48.89
10	Chemistry Laboratory	49.20

Sl. No.	Name of the Civil work	Cost per unit (in lakhs)
11	Maths Laboratory	48.89
12	Drinking water facility per unit	2.42
13	Boys Toilet with Urinals	
	GPS (2 WC & 6 Urinals)	10.30
	GMS / GHS (3 WC & 8 Urinals)	11.94
	GHSS (5 WC & 12 Urinals)	15.72
14	Girls Toilet with Incinerator	
	GPS (4 WC)	10.79
	GMS / GHS (6 WC)	12.46
	GHSS ( 10 WC)	16.55
15	Vocational Lab	48.89

Yours faithfully



ASSISTANT ENGINEER  
SPECIAL BUILDINGS SUB - DIVISION - IV  
PWD., ANNA NAGAR, PUDUCHERRY

**PONDICHERY SCHEDULE OF RATES FOR CIVIL WORKS 2020- 2021**

<b>Sl.No.</b>	<b>Name of the Component</b>	<b>Unit Cost as per PSR 2020-21 including 12% GST (including supportive documents if any)</b>
1	Class Room (Inner size - 7.00 x 7.00m) (Corridor - 2.00 m wide)	<b>Rs.17,35,000/-</b> (73.11 sqm x Rs.19,956/ sqm)
2	Science Lab (Inner size - 14.94 x 7.01m) (Corridor - 2.00 m wide)	<b>Rs.48,89,000/-</b> (151.07 sqm x Rs.31,442/ sqm)
3	Biology Lab (Inner size - 14.94 x 7.01m) (Corridor - 2.00 m wide)	<b>Rs.48,89,000/-</b> (151.07 sqm x Rs.31,442/sqm)
4	Chemistry Lab (Inner size - 14.94 x 7.01m) (Corridor - 2.00 m wide)	<b>Rs.49,20,000/-</b> (151.07 sqm x Rs.31,694/ sqm)
5	Physics Lab (Inner size - 14.94 x 7.01m) (Corridor - 2.00 m wide)	<b>Rs.48,89,000/-</b> (15.40 x 9.81 = 151.07 sqm x Rs.31,244/ sqm)
6	Computer Room (Inner size - 14.94 x 7.01m) (Corridor - 2.00 m wide)	<b>Rs.48,48,000/-</b> (151.07 sqm x Rs.31,244/ sqm)
7	Library Room (Inner size - 10.60 x 7.00m) (Corridor - 2.00 m wide)	<b>Rs.25,60,000/-</b> (108.39 sqm x Rs.19,771/ sqm)
8	Arts & Culture Room (Inner size - 10.60 x 7.00m) (Corridor - 2.00 m wide)	<b>Rs.25,60,000/-</b> (108.39 sqm x Rs.19,771/sqm)

9	Toilet Block	<b>GPS , Boys ( 2WC &amp; 6 Urinals) - Rs.10,30,000/-</b> (22.45 sqm x ***Rs.40,089/sqm)
		<b>GMS/GHS-Boys (3WC &amp; 8 Urinals)</b> <b>Rs.11,94,000/-</b> (28.90 sqm x Rs.350,840/sqm)
		<b>GHSS - Boys (5WC &amp; 12 Urinals)</b> <b>Rs.15,72,000/-</b> (41.76 sqm x Rs.34,124/sqm)
		<b>GPS - Girls</b> <b>Rs. 10,79,000/-</b> ( 22.45 sqm x Rs.43,742/sqm)
		<b>GMS/GHS - Girls (6 WC)</b> <b>Rs.12,46,000/-</b> (28.90 sqm x Rs.37,405/sqm)
		<b>GHSS - Girls (10WC)</b> <b>Rs.16,55,000/-</b> (41.96 sqm x Rs.35,748/sqm)
10	Drinking Water	<b>Rs. 2,42,000/-</b> RO water units with water supply arrangements
11	Boundary Wall	<b>Rs.17,466/- Rmt</b>

NAME OF WORK : Construction of one class room in various Government School in Puducherry Region under RMSA Scheme.

**ABSTRACT OF ESTIMATE**

Item.No	Description of Items	Qty	Rate	Unit	Amount
BUILDING WORK					
1.EARTH WORK					
1.1	CODE NO. 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m - all kinds of soil	69.43 cum	136.94	cum	9,508/-
1.2	CODE NO. 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5m	69.00 cum	121.42	cum	8,378/-
1.3	CODE NO. 2.26.1 Extra for every additional lift of 1.5m or part there of in excavation / banking excavated or stacked materials - all kinds of soil	11.19 cum	63.35	cum	709/-
1.4	CODE NO. 2.27 Supplying and filling in plinth with river sand under floors, including watering, ramming consolidating and dressing complete	17.18 cum	1875.52	cum	32,221/-
1.5	CODE NO. 2.27A.1 Supplying and filling with gravel (excluding rock) in trenches, plinth, sides of foundations etc. In layers not exceeding 20 cm in depth consolidating each deposited layers by ramming and watering etc. complete including all lead and lift	11.99 cum	633.19	cum	7,592/-

## 2. CONCRETE WORK

2.1	<p>CODE NO. 4.1.10          Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)</p>	12.04	3872.73 cum	46,628/-
		cum		
2.2	<p>CODE NO. 4.2.5          Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc. upto floor five level, excluding the cost of centering, shuttering and finishing - 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)</p>	1.39	5590.22 cum	7,770/-
		cum		

## 3. REINFORCED CONCRETE WORK

3.1	<p>CODE NO. 5.1.2          Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work upto plinth level 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)</p>	18.08	6136.44 cum	1,10,947/-
		cum		
3.2	<p>CODE NO. 5.2.2          Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and sting courses, fillets, columns, pillars, piers, abutments, posts and struts etc. upto floor five level excluding cost of centering, shuttering, finishing and reinforcement - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)</p>	21.77	6926.03 cum	1,50,780/-
		Cum		

3.3	CODE NO. 5.9.1 Centering and shuttering including strutting , propping etc and removal of form for - foundations, footings, bases of columns etc for mass concrete	22.73 sqm	246.50 sqm	5,603/-
3.4	CODE NO. 5.9.3 Centering and shuttering including strutting , propping etc and removal of form for - Suspended floors , roofs , landings , balconies and access platform	57.22 sqm	491.08 sqm	28,100/-
3.5	CODE NO. 5.9.5 Centering and shuttering including strutting , propping etc and removal of form for - Lintels , beams , plinth beams , girders , bressumers and catilevers	102.08 sqm	396.69 sqm	40,494/-
3.6	CODE NO. 5.9.6 Centering and shuttering including strutting , propping etc and removal of form for - Columns , Pillars , Piers , Abutments , Posts and Struts	68.48 sqm	580.53 sqm	39,755/-
3.7	CODE NO. 5.9.19 Centering and shuttering including strutting , propping etc and removal of form for -Weather shade , Chajjas, corbels etc., including edges	9.18 sqm	558.94 sqm	5,131/-
3.8	CODE NO. 5.16 Providing , hoisting and fixing upto floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand) , cost of required centering , shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)	0.14 cum	12256.79 cum	1,716/-
3.9	CODE NO. 5.22.6 Steel reinforcement for R.C.C.work including straightening , cutting , bending , placing in position and binding all complete upto			

plinth level - Thermo -Mechanically treated bars (TISCON / VIZAG / IISCO / SAIL / JSW) Fe - 415 or more	4192.00 kg	79.77 kg	3,34,396/-
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#### 4. BRICK WORK

4.1	CODE NO. 6.1.1 Brick work with common burnt clay F.P.S. (non modular ) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:4 (1 cement : 4 coarse sand)	1.39 cum	5348.97 cum	7,435/-
4.2	CODE NO. 6.1.2 Brick work with common burnt clay F.P.S. (non modular ) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:6 (1 cement : 6 coarse sand)	7.43 cum	5116.33 cum	38,014/-
4.3	CODE NO. 6.4.2 Brick work with common burnt clay F.P.S (non modular ) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:6 ( 1 cement : 6 coarse sand)	24.50 cum	5951.47 cum	1,45,811/-
4.4	CODE NO. 6.12.2 Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in - cement mortar 1:4 (1 cement :4 coarse sand	5.79 sqm	634.56 sqm	3,674/-
4.5	CODE NO. 6.13.2 Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level - cement mortar 1:4 (1 cement : 4 coarse sand)	1.89 sqm	728.00 sqm	1,376/-
4.6	CODE NO. 6.14 Extra for half brick masonry in superstructure , above floor five level for every four floors or part thereof by mechanical means	5.79 sqm	19.94 sqm	115/-



4.7	CODE NO. 6.15 Extra for providing and placing in position 2 nos 6mm dia M.S.bars at every third course of half brick masonry	5.79 sqm	80.45 sqm	466/-
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#### 5. WOOD WORK

5.1	CODE NO. 9.1.2P Providing wood work in frames of doors , windows, clerestory windows and other frames , wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately) -Padak wood	0.05129513.61 cum cum		6,476/-
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5.2	CODE NO. 9.21.1 Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part 1) non - decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters - 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	3.00 sqm	1851.68 sqm	5,555/-
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5.3	CODE NO. 9.23 Extra for providing lipping with teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured)	3.00 sqm	357.89 sqm	1,074/-
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5.4	CODE NO. 9.48.1 Providing and fixing M.S.grills of required pattern in frames of windows etc with M.S. flats , square or round bars etc. including priming coat with approved steel primer all complete - Fixed to steel windows by welding	44.55 kg	130.27 kg	5,804/-
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5.5	CODE NO. 9.53 Providing 40 X 5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete			
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	block 30 x10 x 15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	6.00 each	126.92 each	762/-
5.6	CODE NO. 9.55.1 Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete - 125 X 65 X 2.12 mm	6.00 each	38.11 each	229/-
5.7	CODE NO. 9.96.1 Providing and fixing aluminium sliding door bolts , ISI marked , anodised ( anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade , with nuts and screws etc complete - 300 X 16 mm	1.00 each	293.52 each	294/-
5.8	CODE NO. 9.97.1 Providing and fixing aluminium tower bolts , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS :1868) , transparent or dyed to required colour or shade , with necessary screws etc. complete - 300 x10 mm	2.00 each	132.69 each	265/-
5.9	CODE NO. 9.100.1 Providing and fixing aluminium handles , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade,with necessary screws etc, complete - 125 mm	1.00 each	61.13 each	61/-
5.10	CODE NO. 9.101.2 Providing and fixing aluminium hanging floor door stopper , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc complete - Twin rubber stopper	2.00 each	80.79 each	162/-

#### 6. STEEL WORK

6.1	CODE NO. 10.11.1 Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators , side /top/centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of			
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standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment) - Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C.1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20mm nominal size)

44.55 121.82 kg 5,427/-  
kg

6.2 CODE NO. 10.25.1

Steel work welded in built up sections / framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required - in stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required all complete

65.00 73.37 kg 4,769/-  
kg

7. FLOORING

7.1 CODE NO. 11.3.1

Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc .complete - 40mm thick with 20mm nominal size stone aggregate

63.20 373.10 sqm 23,580/-  
sqm

7.2 CODE NO. 11.6.1

Cement plaster skirting upto 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement - 18mm thick

5.10 390.65 sqm 1,992/-  
sqm

7.3 CODE NO. 11.13.1

Providing and fixing glass strips in joints of terrazo / cement concrete floors - 40mm wide and 4mm thick

34.00 41.20 metre 1,401/-  
metre

## 8. ROOFING

8.1	CODE NO. 12.15.1 Painting top of roofs with bitumen of approved quality @ 17kg per 10 sq.m impregnated with a coat of coarse sand at 60cudm per 10 sq.m including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete - with residual type petroleum bitumen of grade VG-10	71.11 sqm	122.56 sqm	8,715/-
8.2	CODE NO. 12.20 Providing and laying pressed clay tiles (as per approved pattern 18mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound , laid over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete	71.11 sqm	555.87 sqm	39,528/-
8.3	CODE NO. 12.20L Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with Parapet wall complete	7.48 cum	5437.14 cum	40,670/-
8.4	CODE NO. 12.22 Making khurras 45x45cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20mm nominal size) over P.V.C. sheet 1m xlm x 400 micron , finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement , rounding the edges, making and finishing the outlet complete	2.00 each	244.20 each	488/-
8.5	CODE NO. 12.41.2 Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10mm gap for thermal			

expansion, (i) Single socketed  
pipes - 110 mm diameter

9.00 259.53 metre 2,336/-  
metre

8.6 CODE NO. 12.42.4.2  
Providing and fixing on wall face  
unplasticised - PVC moulded  
fittings / accessories for  
unplasticised rigid PVC rain water  
pipes conforming to IS:13592 Type  
A, including jointing with seal  
ring conforming to IS: 5382,  
leaving 10mm gap for thermal  
expansion - Single tee without  
door -110x110x110mm

2.00 248.82 each 498/-  
each

8.7 CODE NO. 12.42.6.2  
Providing and fixing on wall face  
unplasticised - PVC moulded  
fittings / accessories for  
unplasticised rigid PVC rain water  
pipes conforming to IS:13592 Type  
A, including jointing with seal  
ring conforming to IS: 5382,  
leaving 10mm gap for thermal  
expansion - shoe (plain) - 110mm  
shoe

2.00 316.94 each 634/-  
each

8.8 CODE NO. 12.43.2  
Providing and fixing unplasticised  
- PVC pipe clips of approved  
design to unplasticised- PVC rain  
water pipes by means of 50x50x50mm  
hard wood plugs, screwed with  
M.S. screws of required length,  
including cutting brickwork and  
fixing in cement mortar 1:4 (1  
cement : 4 coarse sand) and making  
good the wall etc., complete - 110m

6.00 252.71 each 1,516/-  
each

#### 9. FINISHING

9.1 CODE NO. 13.1.2  
12mm cement plaster of mix -1:6 (1  
cement : 6 fine sand)

161.94 179.60 sqm 29,084/-  
sqm

9.2 CODE NO. 13.2.2  
15mm cement plaster on the rough  
side of single or half brick wall  
of mix - 1:6 (1cement : 6 fine sand)

198.38 209.01 sqm 41,463/-  
sqm

9.3 CODE NO. 13.3.1  
20mm cement plaster of mix -1:4 (1  
cement : 4 fine sand)

5.44 272.06 sqm 1,480/-  
sqm

9.4	CODE NO. 13.16.1 6mm cement plaster of mix 1:3 (1 cement : 3 fine sand)	114.56 sqm	153.11 sqm	17,540/-
9.5	CODE NO. 13.42.1 Distemping with 1st quality acrylic washable distember (ready mixed) of approved manufacutrer , of required shade and colour complete as per manufacturer 's specification - Two or more coats on new work	161.94 sqm	66.16 sqm	10,714/-
9.6	CODE NO. 13.46.1 Finishing walls with acrylic smooth exterior paint of required shade - New work (two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg / 10 sqm	360.33 sqm	110.51 sqm	39,820/-
9.7	CODE NO. 13.50.1 Applying priming coat - with ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood)	7.00 sqm	41.55 sqm	291/-
9.8	CODE NO. 13.61.1 Painting with synthetic enamel paint of approved brand and manufacutre to give an even shade - Two or more coats on new work	18.50 sqm	86.78 sqm	1,605/-

#### 10.MISCELLANEOUS BUILDING WORK

10.1	CODE NO. 16.63 Providing wall black board with cement mortar 1:3 (1 cement : 3 sand) finishing with a floating coat of neat cement and charcoal powder mixed in the proportion 1:2 (1 cement : 2 charcoal powder) and applying one coat of black board paint including 20 mm thick cement plaster band 50 mm wide in cement mortar 1:3 (1 cement : 3 sand)	4.86 sqm	177.20 sqm	861/-
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13,21,713/-

11.1 Add GST at 12%

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1,58,606/-

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14,80,319/-

12.1 Add electrification @ 12.50%	1,85,040/-
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	16,65,359/-
13.1 Testing charges	10,000/-
14.1 Advertisement charges	10,000/-
15.1 Add Contingencies @ 3%	49,641/-
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	Rs.17,35,000/-
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(Rupees seventeen lakhs and thirty five thousand only.)

**ABSTRACT OF COST****2. SCIENCE LAB - (Inner size - 14.94 m x 7.01 m ) (Corridor Width - 2.0 m wide)**

Sl. No.	Description of item	Area/ Qty	Rate	Amount
<b><u>BUILDING</u></b>				
1	<b>1.0(B)</b> RCC framed structure (Normal building - Specification as per annexure - V)			
2	<b>1.1.1(B)</b> RCC Framed structure upto six storeyes Floor height 3.35m. $15,200 \times 1.30 = 19,760/-$	151.07 sqm	19760.00	29,85,143
3	<b>1.2.3</b> Every 0.30m. Additional height of floor above normal floor height of 3.35m /290m (floor height=3.60) $270 \times 1.30 = 351.00$	151.07 sqm	351.00	53,026
4	<b>1.2.4</b> Every 0.3mt. Higher plinth over normal plinth height of 0.60mt. (on GF area only) (Plinth height = 1.5m) $3 \times 270 = 810 \times 1.30 = 1053$	151.07 sqm	1053.00	1,59,077
5	<b>1.2.5</b> Every 0.30m deeper foundation over normal depth of 1.20m (on G.F area only) (depth = 1.8m) $2 \times 270 = 540 \times 1.30 = 702.00$	151.07 sqm	702.00	1,06,051
<b><u>SERVICES</u></b>				
6	<b>3.1</b> Internal water supply & sanitary installations @ 4% of building cost 'A' 2985143	5/100(29,85,143)		1,49,257
7	<b>3.2</b> External Service connection @ 5% of building cost 'A'	0.5/100(29,85,143)		1,49,257
8	<b>3.3</b> Internal electric installations @ 12.5% of building cost 'A'	12.5/100(29,85,143)		3,73,143
9	<b>3.6.3</b> <b><u>LIGHTENING CONDUCTORS</u></b>			
10	<b>3.6.3.1</b> upto 4 storeyed building @ 0.5% of building cost 'A'	0.5/100(29,85,143)		14,926
11	<b>3.6.7</b> Quality assurance @ 1% of building cost 'A'	1/100X 29,85,143		29,851



<b><u>Miscellaneous</u></b>		
12	Provision for tiles flooring	L.S 2,00,000
		42,39,731/-
13	Add GST 12%	5,06,368/-
14	Advertisement Charges	20,000
15	Contingencies @ 3%	<u>1,42,901/-</u>
	<b>TOTAL</b>	<b><u>48,89,000/-</u></b>

(Rupees fourty eight lakhs and eighty nine thousand only)

**ABSTRACT OF COST****3. BIOLOGY LAB - (Inner size - 14.94 m x 7.01 m ) (Corridor Width - 2.0 m wide)**

Sl. No.	Description of item	Area/ Qty	Rate	Amount
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**BUILDING**

1	<b>1.0(B)</b> RCC framed structure (Normal building - Specification as per annexure - V)			
2	<b>1.1.1(B)</b> RCC Framed structure upto six storeyes Floor height 3.35m. $15,200 \times 1.30 = 19,760/-$	151.07 sqm	19760.00	29,85,143
3	<b>1.2.3</b> Every 0.30m. Additional height of floor above normal floor height of 3.35m /290m (floor height=3.60) $270 \times 1.30 = 351.00$	151.07 sqm	351.00	53,026
4	<b>1.2.4</b> Every 0.3mt. Higher plinth over normal plinth height of 0.60mt. (on GF area only) (Plinth height = 1.5m) $3 \times 270 = 810 \times 1.30 = 1053$	151.07 sqm	1053.00	1,59,077
5	<b>1.2.5</b> Every 0.30m deeper foundation over normal depth of 1.20m (on G.F area only) (depth = 1.8m) $2 \times 270 = 540 \times 1.30 = 702.00$	151.07 sqm	702.00	1,06,051

**SERVICES**

6	<b>3.1</b> Internal water supply & sanitary installations @ 4% of building cost 'A' 2985143	5/100(29,85,143)		1,49,257
7	<b>3.2</b> External Service connection @ 5% of building cost 'A'	0.5/100(29,85,143)		1,49,257
8	<b>3.3</b> Internal electric installations @ 12.5% of building cost 'A'	12.5/100(29,85,143)		3,73,143
9	<b>3.6.3</b> <b><u>LIGHTENING CONDUCTORS</u></b>			
10	<b>3.6.3.1</b> upto 4 storeyed building @ 0.5% of building cost 'A'	0.5/100(29,85,143)		14,926
11	<b>3.6.7</b> Quality assurance @ 1% of building cost 'A'	1/100X 29,85,143		29,851

<b><u>Miscellaneous</u></b>			
12	Provision for tiles flooring	L.S	2,00,000
			42,19,731/-
13	Add GST 12%		5,06,368/-
14	Advertisement Charges		20,000
15	Contingencies @ 3%		1,42,901/-
		<b>TOTAL</b>	<b><u>48,89,000/-</u></b>

(Rupees fourty eight lakhs and eighty nine thousand only)

**ABSTRACT OF COST**

**4. CHEMISTRY LAB - (Inner size - 15.40 m x 9.81 m ) (Corridor Width - 2.0 m wide)**

Sl. No.	Description of item	Area/ Qty	Rate	Amount
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**BUILDING**

1	<b>1.0(B)</b> RCC framed structure (Normal building - Specification as per annexure - V)			
2	<b>1.1.1(B)</b> RCC Framed structure upto six storeyes Floor height 3.35m. 15,200X1.30= 19,760/-	151.07 sqm	19760.00	29,85,143
3	<b>1.2.3</b> Every 0.30m. Additional height of floor above normal floor height of 3.35m /290m (floor height=3.60) 270x1.30=351.00	151.07 sqm	351.00	53,026
4	<b>1.2.4</b> Every 0.3mt. Higher plinth over normal plinth height of 0.60mt. (on GF area only) (Plinth height = 1.5m) 3 x 270 = 810 x 1.30 = 1053	151.07 sqm	1053.00	1,59,077
5	<b>1.2.5</b> Every 0.30m deeper foundation over normal depth of 1.20m (on G.F area only) (depth = 1.8m) 2x270 = 540x1.30 = 702.00	151.07 sqm	702.00	1,06,051

**SERVICES**

6	<b>3.1</b> Internal water supply & sanitary installations @ 4% of building cost 'A' 2985143	5/100(29,85,143)		1,49,257
7	<b>3.2</b> External Service connection @ 5% of building cost 'A'	0.5/100(29,85,143)		1,49,257
8	<b>3.3</b> Internal electric installations @ 12.5% of building cost 'A'	12.5/100(2985143)		3,73,143
	<b>3.6.3</b> <b><u>LIGHTENING CONDUCTORS</u></b>			
9	<b>3.6.3.1</b> upto 4 storeyed building @ 0.5% of building cost 'A'	0.5/100(29,85143)		14,926
10	<b>3.6.7</b> Quality assurance @ 1% of building cost 'A'	1/100X 29,85143		29,851

<b><u>Miscellaneous</u></b>			
11	Provision for tiles flooring	L.S	2,30,000
			42,49,731/-
12	Add GST 12%		5,09,968/-
13	Advertisement charges		20,000/-
14	Contingencies @ 3%		1,40,301/-
		<b>TOTAL</b>	<b><u>49,20,000/-</u></b>

(Rupees fourty nine lakhs and twenty thousand only)

**ABSTRACT OF COST**

**5. PHYSICS LAB /MATHS LAB - (Inner size - 14.94 m x 7.01 m ) (Corridor Width - 2.0 m wide)**

Sl. No.	Description of item	Area/ Qty	Rate	Amount
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**BUILDING**

1	<b>1.0(B)</b> RCC framed structure (Normal building - Specification as per annexure - V)			
2	<b>1.1.1(B)</b> RCC Framed structure upto six storeyes Floor height 3.35m. $15,200 \times 1.30 = 19,760/-$	151.07 sqm	19760.00	29,85,143
3	<b>1.2.3</b> Every 0.30m. Additional height of floor above normal floor height of 3.35m /290m (floor height=3.60) $270 \times 1.30 = 351.00$	151.07 sqm	351.00	53,026
4	<b>1.2.4</b> Every 0.3mt. Higher plinth over normal plinth height of 0.60mt. (on GF area only) (Plinth height = 1.5m) $3 \times 270 = 810 \times 1.30 = 1053$	151.07 sqm	1053.00	1,59,077
5	<b>1.2.5</b> Every 0.30m deeper foundation over normal depth of 1.20m (on G.F area only) (depth = 1.8m) $2 \times 270 = 540 \times 1.30 = 702.00$	151.07 sqm	702.00	1,06,051

**SERVICES**

6	<b>3.1</b> Internal water supply & sanitary installations @ 4% of building cost 'A' 2985143	5/100(29,85,143)		1,49,257
7	<b>3.2</b> External Service connection @ 5% of building cost 'A'	0.5/100(29,85,143)		1,49,257
8	<b>3.3</b> Internal electric installations @ 12.5% of building cost 'A'	12.5/100(29,85,143)		3,73,143
9	<b>3.6.3</b> <b><u>LIGHTENING CONDUCTORS</u></b>			
10	<b>3.6.3.1</b> upto 4 storeyed building @ 0.5% of building cost 'A'	0.5/100(29,85,143)		14,926
11	<b>3.6.7</b> Quality assurance @ 1% of building cost 'A'	1/100X 29,85,143		29,851

<b><u>Miscellaneous</u></b>			
12	Provision for tiles flooring	L.S	2,00,000
			42,19,731/-
13	Advertisement Charges		20,000
14	Add GST 12%		5,06,368/-
15	Contingencies @ 3%		<u>1,42,901/-</u>
		<b>TOTAL</b>	<b><u>48,89,000/-</u></b>

(Rupees fourty eight lakhs and eighty nine thousand only)

**ABSTRACT OF COST**

**6. COMPUTER ROOM - (Inner size - 15.40 m x 9.81 m ) (Corridor Width - 2.0 m wide)**

Sl. No.	Description of item	Area/ Qty	Rate	Amount
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**BUILDING**

1	<b>1.0(B)</b> RCC framed structure (Normal building - Specification as per annexure - V)			
2	<b>1.1.1(B)</b> RCC Framed structure upto six storeyes Floor height 3.35m. 15,200X1.30= 19,760/-	151.07 sqm	19760.00	29,85,143
3	<b>1.2.3</b> Every 0.30m. Additional height of floor above normal floor height of 3.35m /290m (floor height=3.60) 270x1.30=351.00	151.07 sqm	351.00	53,026
4	<b>1.2.4</b> Every 0.3mt. Higher plinth over normal plinth height of 0.60mt. (on GF area only) (Plinth height = 1.5m) 3 x 270 = 810 x 1.30 = 1053	151.07 sqm	1053.00	1,59,077
5	<b>1.2.5</b> Every 0.30m deeper foundation over normal depth of 1.20m (on G.F area only) (depth = 1.8m) 2x270 = 540x1.30 = 702.00	151.07 sqm	702.00	1,06,051

**SERVICES**

5	<b>3.1</b> Internal water supply & sanitary installations @ 4% of building cost 'A' 2985143	5/100(29,85,143)		1,49,257
6	<b>3.2</b> External Service connection @ 5% of building cost 'A'	0.5/100(29,85,143)		1,49,257
7	<b>3.3</b> Internal electric installations @ 12.5% of building cost 'A'	12.5/100(2985143)		3,73,143
<b>3.6.3 <u>LIGHTENING CONDUCTORS</u></b>				
8	<b>3.6.3.1</b> upto 4 storeyed building @ 0.5% of building cost 'A'	0.5/100(29,85143)		14,926
9	<b>3.6.6</b> computer conducting @ 0.5% of building cost 'A'	0.5/100(29,85143)		14,926
10	<b>3.6.7</b> Quality assurance @ 1% of building cost 'A'	1/100X 29,85143		29,851



<b><u>Miscellaneous</u></b>		
11	Provision for tiles flooring	L.S 1,50,000
		41,84,657/-
12	Advertisement Charges	20,000
13	Add GST 12%	5,02,159/-
14	Contingencies @ 3%	1,41,184/-
	<b>TOTAL</b>	<b><u>48,48,000/-</u></b>

(Rupees forty eight lakhs and forty eight thousand only)

NAME OF WORK : One Library Room.

ABSTRACT OF ESTIMATE

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Item.No      Description of Items                      Qty              Rate      Unit              Amount  
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BUILDING WORK

1.EARTH WORK

1.1	CODE NO. 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m - all kinds of soil	95.51 cum	136.94	cum	13,079/-
1.2	CODE NO. 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5m	96.00 cum	121.42	cum	11,656/-
1.3	CODE NO. 2.26.1 Extra for every additional lift of 1.5m or part there of in excavation / banking excavated or stacked materials - all kinds of soil	14.91 cum	63.35	cum	945/-
1.4	CODE NO. 2.27 Supplying and filling in plinth with river sand under floors, including watering, ramming consolidating and dressing complete	17.50 cum	1875.52	cum	32,822/-

2.CONCRETE WORK

2.1	CODE NO. 4.1.1 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:1:2 (1 cement : 1				
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coarse sand : 2 graded stone aggregate 20mm nominal size)	18.88	7321.52 cum	1,38,230/-
		cum	

### 3. REINFORCED CONCRETE WORK

3.1	CODE NO. 5.1.2 Providing and laying in position specified grade of reinforced cement concrete , excluding the cost of centering , shuttering , finishing and reinforcement - All work upto plinth level 1:1.5:3 (1cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	25.31	6136.44 cum	1,55,313/-
			cum	
3.2	CODE NO. 5.2.2 Reinforced cement concrete work in walls (any thickness) , including attached pilasters, buttresses , plinth and string courses , fillets , columns , pillars , piers , abutments , posts and struts etc. upto floor five level excluding cost of centering , shuttering , finishing and reinforcement - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	6.66	6926.03 cum	46,127/-
			cum	
3.3	CODE NO. 5.3 Reinforced cement concrete work in beams, suspended floors , roofs having slope up to 15degree landings , balconies , shelves , chajjas , lintels , bands , plain window sills , staircases and spiral stair cases upto floor five level excluding the cost of centering , shuttering, finishing and reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	25.87	6883.77 cum	1,78,083/-
			cum	
3.4	CODE NO. 5.9.1 Centering and shuttering including strutting , propping etc and removal of form for - foundations, footings, bases of columns etc for mass concrete	29.41	246.50 sqm	7,250/-
			sqm	
3.5	CODE NO. 5.9.3 Centering and shuttering including strutting , propping etc and removal of form for - Suspended floors , roofs , landings , balconies and access platform	88.65	491.08 sqm	43,534/-
			sqm	

3.6	CODE NO. 5.9.5 Centering and shuttering including strutting , propping etc and removal of form for - Lintels , beams , plinth beams , girders , bressumers and catilevers	162.40 sqm	396.69 sqm	64,422/-
3.7	CODE NO. 5.9.6 Centering and shuttering including strutting , propping etc and removal of form for - Columns , Pillars , Piers , Abutments , Posts and Struts	100.34 sqm	580.53 sqm	58,250/-
3.8	CODE NO. 5.9.19 Centering and shuttering including strutting , propping etc and removal of form for -Weather shade , Chajjas, corbels etc., including edges	15.49 sqm	558.94 sqm	8,658/-
3.9	CODE NO. 5.16 Providing , hoisting and fixing upto floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand) , cost of required centering , shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)	0.30 cum	12256.79 cum	3,677/-
3.10	CODE NO. 5.22.6 Steel reinforcement for R.C.C.work including straightening , cutting , bending , placing in position and binding all complete upto plinth level - Thermo-Mechanically treated bars (TISCON / VIZAG / IISCO / SAIL / JSW) Fe - 415 or more	6117.00 kg	79.77 kg	4,87,953/-

#### 4. BRICK WORK

4.1	CODE NO. 6.1.1 Brick work with common burnt clay F.P.S. (non modular ) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:4 (1 cement : 4 coarse sand)	0.65 cum	5348.97 cum	3,477/-
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4.2	<p>CODE NO. 6.1.2          Brick work with common burnt clay F.P.S. (non modular ) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:6 (1 cement : 6 coarse sand)</p>	16.95 cum	5116.33 cum	86,722/-
4.3	<p>CODE NO. 6.4.2          Brick work with common burnt clay F.P.S (non modular ) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:6 ( 1 cement : 6 coarse sand)</p>	30.01 cum	5951.47 cum	1,78,604/-
4.4	<p>CODE NO. 6.13.2          Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level - cement mortar 1:4 (1 cement : 4 coarse sand)</p>	7.56 sqm	728.00 sqm	5,504/-
4.5	<p>CODE NO. 6.15          Extra for providing and placing in position 2 nos 6mm dia M.S.bars at every third course of half brick masonry</p>	7.56 sqm	80.45 sqm	608/-

#### 5. WOOD WORK

5.1	<p>CODE NO. 9.1.2P          Providing wood work in frames of doors , windows, clerestory windows and other frames , wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia &amp; length (hold fast lugs or dash fastener shall be paid for separately)          -Padak wood</p>	0.11 cum	129513.61 cum	14,246/-
5.2	<p>CODE NO. 9.21.2          Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part 1) non - decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters - 30 mm thick including ISI marked Stainless</p>			

	Steel butt hinges with necessary screws	5.04 sqm	1787.06 sqm	9,007/-
5.3	CODE NO. 9.23 Extra for providing lipping with teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured)	5.04 sqm	357.89 sqm	1,804/-
5.4	CODE NO. 9.48.1 Providing and fixing M.S.grills of required pattern in frames of windows etc with M.S. flats , square or round bars etc. including priming coat with approved steel primer all complete - Fixed to steel windows by welding	222.75 kg	130.27 kg	29,018/-
5.5	CODE NO. 9.53 Providing 40 X 5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bots, nuts and wooden plugs and embeddings in cement concrete block 30 x10 x 15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	12.00 each	126.92 each	1,523/-
5.6	CODE NO. 9.96.1 Providing and fixing aluminium sliding door bolts , ISI marked , anodised ( anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade , with nuts and screws etc complete - 300 X 16 mm	2.00 each	293.52 each	587/-
5.7	CODE NO. 9.97.1 Providing and fixing aluminium tower bolts , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS :1868) , transparent or dyed to required colour or shade , with necessary screws etc. complete - 300 x10 mm	4.00 each	132.69 each	531/-
5.8	CODE NO. 9.100.1 Providing and fixing aluminium handles , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade,with necessary screws etc, complete - 125 mm	4.00 each	61.13 each	245/-

5.9 CODE NO. 9.101.2  
 Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc complete - Twin rubber stopper

4.00 each	80.79 each	323/-
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5.10 CODE NO. 9.165.1A  
 Providing and fixing of 65mm Godrej Navatal lock of 6 levers etc complete

2.00 each	432.88 each	866/-
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#### 6. STEEL WORK

6.1 CODE NO. 10.11.1  
 Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side/top/centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment) - Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C.1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)

222.75 kg	121.82 kg	27,135/-
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#### 7. FLOORING

7.1 CODE NO. 11.3.1  
 Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc complete - 40mm thick with 20mm nominal size stone aggregate

95.40 sqm	373.10 sqm	35,594/-
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7.2 CODE NO. 11.6.1  
 Cement plaster skirting upto 30 cm height, with cement mortar 1:3 (1

cement : 3 coarse sand) , finished with a floating coat of neat cement - 18mm thick

6.18 390.65 sqm 2,414/-  
sqm

7.3 CODE NO. 11.13.1

Providing and fixing glass strips in joints of terrazo / cement concrete floors - 40mm wide and 4mm thick

41.20 41.20 metre 1,697/-  
metre

8. ROOFING

8.1 CODE NO. 12.15.1

Painting top of roofs with bitumen of approved quality @ 17kg per 10 sq.m impregnated with a coat of coarse sand at 60cudm per 10 sq.m including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete - with residual type petroleum bitumen of grade VG-10

81.24 122.56 sqm 9,957/-  
sqm

8.2 CODE NO. 12.20

Providing and laying pressed clay tiles (as per approved pattern 18mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound , laid over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete

81.00 555.87 sqm 45,025/-  
sqm

8.3 CODE NO. 12.20L

Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with Parapet wall complete

8.52 5437.14 cum 46,324/-  
cum

- 8.4 CODE NO. 12.22

Making khurras 45x45cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20mm nominal size) over P.V.C. sheet 1m x 1m x 400 micron , finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat



	cement , rounding the edges, making and finishing the outlet complete	3.00 each	244.20 each	733/-
8.5	CODE NO. 12.41.2 Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes - 110 mm diameter	13.50 metre	259.53 metre	3,504/-
8.6	CODE NO. 12.42.4.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - Single tee without door -110x110x110mm	3.00 each	248.82 each	746/-
8.7	CODE NO. 12.42.6.2 (Non Psr Item) Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - shoe (plain) - 110mm shoe	3.00 each	316.94 each	951/-
8.8	CODE NO. 12.43.2 Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised- PVC rain water pipes by means of 50x50x50mm hard wood plugs , screwed with M.S. screws of required length, including cutting brickwork and fixing in cement mortar 1:4 ( 1 cement : 4 coarse sand) and making good the wall etc., complete - 110m	9.00 each	252.71 each	2,274/-

#### 9. FINISHING

9.1	CODE NO. 13.1.2 12mm cement plaster of mix -1:6 ( 1 cement : 6 fine sand)	256.23 sqm	179.60 sqm	46,019/-
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9.2	CODE NO. 13.2.2 15mm cement plaster on the rough side of single or half brick wall of mix - 1:6 (1cement : 6 fine sand)	275.69 sqm	209.01 sqm	57,622/-
9.3	CODE NO. 13.3.1 20mm cement plaster of mix -1:4 (1 cement : 4 fine sand)	3.11 sqm	272.06 sqm	846/-
9.4	CODE NO. 13.16.1 6mm cement plaster of mix 1:3 (1 cement : 3 fine sand)	161.98 sqm	153.11 sqm	24,801/-
9.5	CODE NO. 13.37.1 White washing with lime to give an even shade - new work (three or more coats)	139.47 sqm	18.25 sqm	2,545/-
9.6	CODE NO. 13.46.1 Finishing walls with acrylic smooth exterior paint of required shade - New work (two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg / 10 sqm	531.92 sqm	110.51 sqm	58,782/-
9.7	CODE NO. 13.50.1 Applying priming coat - with ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood)	13.82 sqm	41.55 sqm	574/-
9.8	CODE NO. 13.61.1 Painting with synthetic enamel paint of approved brand and manufacture to give an even shade - Two or more coats on new work	60.60 sqm	86.78 sqm	5,259/-

#### 10.MISCELLANEOUS BUILDING WORK

10.1	CODE NO. 16.63 Providing wall black board with cement mortar 1:3 (1 cement : 3 sand) finishing with a floating coat of neat cement and charcoal powder mixed in the proportion 1:2 (1 cement : 2 charcoal powder) and applying one coat of black board paint including 20 mm thick cement plaster band 50 mm wide in cement mortar 1:3 (1 cement : 3 sand)	4.86 sqm	177.20 sqm	861/-
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19,56,727/-

11.1 Add GST at 12%	2,34,807/-
	<u>21,91,534/-</u>
12.1 Add electrification @ 12.50%	2,73,942/-
	<u>24,65,476/-</u>
13.1 Testing charges	10,000/-
14.1 Advertisement charges	10,000/-
15.1 Add Contingencies @ 3%	74,524/-
	<u>Rs.25,60,000/-</u>

(Rupees twenty five lakhs and sixty thousand only.)

NAME OF WORK : Art and culture Room / Vocational lab

ABSTRACT OF ESTIMATE

Item.No	Description of Items	Qty	Rate	Unit	Amount
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BUILDING WORK

1.EARTH WORK

1.1	CODE NO. 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed , within a lead of 50m - all kinds of soil	95.51 cum	136.94	cum	13,079/-
1.2	CODE NO. 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5m	96.00 cum	121.42	cum	11,656/-
1.3	CODE NO. 2.26.1 Extra for every additional lift of 1.5m or part there of in excavation / banking excavated or stacked materials - all kinds of soil	14.91 cum	63.35	cum	945/-
1.4	CODE NO. 2.27 Supplying and filling in plinth with river sand under floors, including watering ,ramming consolidating and dressing complete	17.50 cum	1875.52	cum	32,822/-

2.CONCRETE WORK

2.1	CODE NO. 4.1.1 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:1:2 (1 cement : 1 coarse sand : 2 graded stone				
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aggregate 20mm nominal size)	18.88	7321.52 cum	1,38,230/-
	cum		

### 3. REINFORCED CONCRETE WORK

3.1	CODE NO. 5.1.2 Providing and laying in position specified grade of reinforced cement concrete , excluding the cost of centering , shuttering , finishing and reinforcement - All work upto plinth level 1:1.5:3 (1cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	25.31	6136.44 cum	1,55,313/-
		cum		
3.2	CODE NO. 5.2.2 Reinforced cement concrete work in walls (any thickness) , including attached pilasters, buttresses , plinth and string courses , fillets , columns , pillars , piers , abutments , posts and struts etc. upto floor five level excluding cost of centering , shuttering , finishing and reinforcement - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	6.66	6926.03 cum	46,127/-
		cum		
3.3	CODE NO. 5.3 Reinforced cement concrete work in beams, suspended floors , roofs having slope up to 15degree landings , balconies , shelves , chajjas , lintels , bands , plain window sills , staircases and spiral stair cases upto floor five level excluding the cost of centering , shuttering, finishing and reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	25.87	6883.77 cum	1,78,083/-
		cum		
3.4	CODE NO. 5.9.1 Centering and shuttering including strutting , propping etc and removal of form for - foundations, footings, bases of columns etc for mass concrete	29.41	246.50 sqm	7,250/-
		sqm		
3.5	CODE NO. 5.9.3 Centering and shuttering including strutting , propping etc and removal of form for - Suspended floors , roofs , landings , balconies and access platform	88.65	491.08 sqm	43,534/-
		sqm		
3.6	CODE NO. 5.9.5			

Centering and shuttering including strutting , propping etc and removal of form for - Lintels , beams , plinth beams , girders , bressumers and catilevers

162.40 396.69 sqm 64,422/-  
sqm

3.7 CODE NO. 5.9.6

Centering and shuttering including strutting , propping etc and removal of form for - Columns , Pillars , Piers , Abutments , Posts and Struts

100.34 580.53 sqm 58,250/-  
sqm

3.8 CODE NO. 5.9.19

Centering and shuttering including strutting , propping etc and removal of form for -Weather shade , Chajjas, corbels etc., including edges

15.49 558.94 sqm 8,658/-  
sqm

3.9 CODE NO. 5.16

Providing , hoisting and fixing upto floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand) , cost of required centering , shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)

0.30 12256.79 cum 3,677/-  
cum

3.10 CODE NO. 5.22.6

Steel reinforcement for R.C.C.work including straightening , cutting , bending , placing in position and binding all complete upto plinth level - Thermo -Mechanically treated bars (TISCON / VIZAG / IISCO / SAIL / JSW) Fe - 415 or more

6117.00 79.77 kg 4,87,953/-  
kg

#### 4. BRICK WORK

4.1 CODE NO. 6.1.1

Brick work with common burnt clay F.P.S. (non modular ) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:4 (1 cement : 4 coarse sand)

0.65 5348.97 cum 3,477/-  
cum

4.2 CODE NO. 6.1.2

Brick work with common burnt clay F.P.S. (non modular ) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:6 (1 cement : 6 coarse sand)

16.95 5116.33 cum 86,722/-  
cum

4.3 CODE NO. 6.4.2

Brick work with common burnt clay F.P.S (non modular ) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:6 ( 1 cement : 6 coarse sand)

30.01 5951.47 cum 1,78,604/-  
cum

4.4 CODE NO. 6.13.2

Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level - cement mortar 1:4 (1 cement : 4 coarse sand)

7.56 728.00 sqm 5,504/-  
sqm

4.5 CODE NO. 6.15

Extra for providing and placing in position 2 nos 6mm dia M.S.bars at every third course of half brick masonry

7.56 80.45 sqm 608/-  
sqm

5.WOOD WORK

5.1 CODE NO. 9.1.2P

Providing wood work in frames of doors , windows, clerestory windows and other frames , wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately)  
-Padak wood

0.11 129513.61 cum 14,246/-  
cum

5.2 CODE NO. 9.21.2

Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part 1) non - decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters - 30 mm thick including ISI marked Stainless

Steel butt hinges with necessary

	screws	5.04 sqm	1787.06 sqm	9,007/-
5.3	CODE NO. 9.23 Extra for providing lipping with teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured)	5.04 sqm	357.89 sqm	1,804/-
5.4	CODE NO. 9.48.1 Providing and fixing M.S.grills of required pattern in frames of windows etc with M.S. flats , square or round bars etc. including priming coat with approved steel primer all complete - Fixed to steel windows by welding	222.75 kg	130.27 kg	29,018/-
5.5	CODE NO. 9.53 Providing 40 X 5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30 x10 x 15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	12.00 each	126.92 each	1,523/-
5.6	CODE NO. 9.96.1 Providing and fixing aluminium sliding door bolts , ISI marked , anodised ( anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade , with nuts and screws etc complete - 300 X 16 mm	2.00 each	293.52 each	587/-
5.7	CODE NO. 9.97.1 Providing and fixing aluminium tower bolts , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS :1868) , transparent or dyed to required colour or shade , with necessary screws etc. complete - 300 x10 mm	4.00 each	132.69 each	531/-
5.8	CODE NO. 9.100.1 Providing and fixing aluminium handles , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade,with necessary screws etc, complete - 125 mm	4.00 each	61.13 each	245/-
5.9	CODE NO. 9.101.2			



Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc complete - Twin rubber stopper

4.00 80.79 each 323/-  
each

5.10 CODE NO. 9.165.1A

Providing and fixing of 65mm Godrej Navatal lock of 6 levers etc complete

2.00 432.88 each 866/-  
each

#### 6. STEEL WORK

6.1 CODE NO. 10.11.1

Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side/top/centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment) - Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C.1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)

222.75 121.82 kg 27,135/-  
kg

#### 7. FLOORING

7.1 CODE NO. 11.3.1

Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc complete - 40mm thick with 20mm nominal size stone aggregate

95.40 373.10 sqm 35,594/-  
sqm

7.2 CODE NO. 11.6.1

Cement plaster skirting upto 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished

with a floating coat of neat cement - 18mm thick

6.18 390.65 sqm 2,414/-  
sqm

7.3 CODE NO. 11.13.1

Providing and fixing glass strips in joints of terrazo / cement concrete floors - 40mm wide and 4mm thick

41.20 41.20 metre 1,697/-  
metre

8. ROOFING

8.1 CODE NO. 12.15.1

Painting top of roofs with bitumen of approved quality @ 17kg per 10 sq.m impregnated with a coat of coarse sand at 60cudm per 10 sq.m including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete - with residual type petroleum bitumen of grade VG-10

81.24 122.56 sqm 9,957/-  
sqm

8.2 CODE NO. 12.20

Providing and laying pressed clay tiles (as per approved pattern 18mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete

81.00 555.87 sqm 45,025/-  
sqm

8.3 CODE NO. 12.20L

Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with Parapet wall complete

8.52 5437.14 cum 46,324/-  
cum

8.4 CODE NO. 12.22

Making khurras 45x45cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20mm nominal size) over P.V.C. sheet 1m xlm x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat

cement, rounding the edges,

	making and finishing the outlet complete	3.00 each	244.20 each	733/-
8.5	CODE NO. 12.41.2 Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes - 110 mm diameter	13.50 metre	259.53 metre	3,504/-
8.6	CODE NO. 12.42.4.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - Single tee without door -110x110x110mm	3.00 each	248.82 each	746/-
8.7	CODE NO. 12.42.6.2 (Non Psr Item) Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - shoe (plain) - 110mm shoe	3.00 each	316.94 each	951/-
8.8	CODE NO. 12.43.2 Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised- PVC rain water pipes by means of 50x50x50mm hard wood plugs , screwed with M.S. screws of required length, including cutting brickwork and fixing in cement mortar 1:4 ( 1 cement : 4 coarse sand) and making good the wall etc., complete - 110m	9.00 each	252.71 each	2,274/-

#### 9. FINISHING

9.1	CODE NO. 13.1.2 12mm cement plaster of mix -1:6 ( 1 cement : 6 fine sand)	256.23 sqm	179.60 sqm	46,019/-
9.2	CODE NO. 13.2.2			

	15mm cement plaster on the rough side of single or half brick wall of mix - 1:6 (1cement : 6 fine sand)	275.69 sqm	209.01 sqm	57,622/-
9.3	CODE NO. 13.3.1 20mm cement plaster of mix -1:4 (1 cement : 4 fine sand)	3.11 sqm	272.06 sqm	846/-
9.4	CODE NO. 13.16.1 6mm cement plaster of mix 1:3 (1 cement : 3 fine sand)	161.98 sqm	153.11 sqm	24,801/-
9.5	CODE NO. 13.37.1 White washing with lime to give an even shade - new work (three or more coats)	139.47 sqm	18.25 sqm	2,545/-
9.6	CODE NO. 13.46.1 Finishing walls with acrylic smooth exterior paint of required shade - New work (two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg / 10 sqm	531.92 sqm	110.51 sqm	58,782/-
9.7	CODE NO. 13.50.1 Applying priming coat - with ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood)	13.82 sqm	41.55 sqm	574/-
9.8	CODE NO. 13.61.1 Painting with synthetic enamel paint of approved brand and manufacutre to give an even shade - Two or more coats on new work	60.60 sqm	86.78 sqm	5,259/-

#### 10. MISCELLANEOUS BUILDING WORK

10.1	CODE NO. 16.63 Providing wall black board with cement mortar 1:3 (1 cement : 3 sand) finishing with a floating coat of neat cement and charcoal powder mixed in the proportion 1:2 (1 cement : 2 charcoal powder) and applying one coat of black board paint including 20 mm thick cement plaster band 50 mm wide in cement mortar 1:3 (1 cement : 3 sand)	4.86 sqm	177.20 sqm	861/-
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19,56,727/-

11.1 Add GST at 12%

2,34,807/-

	----- 21,91,534/-
12.1 Add electrification @ 12.50%	2,73,942/-
	----- 24,65,476/-
13.1 Testing charges	10,000/-
14.1 Advertisement charges	10,000/-
15.1 Add Contingencies @ 3%	74,524/-
	----- Rs.25,60,000/- -----

(Rupees twenty five lakhs and sixty thousand only.)

**NAME OF WORK : Toilet (2 WC & 6 Urinals)**

**ABSTRACT OF ESTIMATE**

Item.No	Description of Items	Qty	Rate	Unit	Amount
BUILDING WORK					
1.EARTH WORK					
1.1	CODE NO. 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m - all kinds of soil	70.00 cum	136.94	cum	9,586/-
1.2	CODE NO. 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5m	58.00 cum	121.42	cum	7,042/-
1.3	CODE NO. 2.27 Supplying and filling in plinth with river sand under floors, including watering, ramming consolidating and dressing complete	4.00 cum	1875.52	cum	7,502/-
1.4	CODE NO. 2.27A.1 Supplying and filling with gravel (excluding rock) in trenches, plinth, sides of foundations etc. In layers not exceeding 20 cm in depth consolidating each deposited layers by ramming and watering etc. complete including all lead and lift	8.00 cum	633.19	cum	5,066/-
2.CONCRETE WORK					
2.1	CODE NO. 4.1.4 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:2:4 (1 cement : 2				

	coarse sand : 4 graded stone aggregate 40mm nominal size)	2.00 cum	5162.82 cum	10,326/-
2.2	CODE NO. 4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	4.00 cum	4159.05 cum	16,636/-
2.3	CODE NO. 4.1.10 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	5.00 cum	3872.73 cum	19,364/-
2.4	CODE NO. 4.1.11A Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded brick aggregate 40mm nominal size)	2.00 cum	3513.66 cum	7,027/-

### 3. REINFORCED CONCRETE WORK

3.1	CODE NO. 5.1.2 Providing and laying in position specified grade of reinforced cement concrete , excluding the cost of centering , shuttering , finishing and reinforcement - All work upto plinth level 1:1.5:3 (1cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	1.00 cum	6136.44 cum	6,136/-
3.2	CODE NO. 5.3 Reinforced cement concrete work in beams, suspended floors , roofs having slope up to 15degree landings , balconies , shelves , chajjas , lintels , bands , plain window sills , staircases and spiral stair cases upto floor five level excluding the cost of centering ,shuttering, finishing and reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	11.00 cum	6883.77 cum	75,721/-

3.3	CODE NO. 5.9.3 Centering and shuttering including strutting , propping etc and removal of form for - Suspended floors , roofs , landings , balconies and access platform	37.00 sqm	491.08 sqm	18,170/-
3.4	CODE NO. 5.9.5 Centering and shuttering including strutting , propping etc and removal of form for - Lintels , beams , plinth beams , girders , bressumers and catilevers	30.00 sqm	396.69 sqm	11,901/-
3.5	CODE NO. 5.16 Providing , hoisting and fixing upto floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand) , cost of required centering , shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)	1.00 cum	12256.79 cum	12,257/-
3.6	CODE NO. 5.18.1 Providing precast cement concrete jali 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning , fixing and finishing in cement mortar 1:3 ( 1 cement : 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits - 50mm thick	3.00 sqm	1098.66 sqm	3,296/-
3.7	CODE NO. 5.22.6 Steel reinforcement for R.C.C.work including straightening , cutting , bending , placing in position and binding all complete upto plinth level - Thermo-Mechanically treated bars (TISCON / VIZAG / IISCO / SAIL / JSW) Fe - 415 or more	1000.00 kg	79.77 kg	79,770/-

#### 4. BRICK WORK

4.1	CODE NO. 6.1.1 Brick work with common burnt clay
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F.P.S. (non modular ) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:4 (1 cement : 4 coarse sand)

16.00 5348.97 cum 85,584/-  
cum

4.2 CODE NO. 6.1.2

Brick work with common burnt clay F.P.S. (non modular ) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:6 (1 cement : 6 coarse sand)

11.00 5116.33 cum 56,280/-  
cum

4.3 CODE NO. 6.4.1

Brick work with common burnt clay F.P.S (non modular ) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:4 ( 1 cement : 4 coarse sand)

13.00 6184.12 cum 80,394/-  
cum

4.4 CODE NO. 6.13.2

Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level - cement mortar 1:4 (1 cement : 4 coarse sand)

13.00 728.00 sqm 9,464/-  
sqm

4.5 CODE NO. 6.15

Extra for providing and placing in position 2 nos 6mm dia M.S.bars at every third course of half brick masonry

13.00 80.45 sqm 1,046/-  
sqm

5.WOOD WORK

5.1 CODE NO. 9.97.3

Providing and fixing aluminium tower bolts , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS :1868) , transparent or dyed to required colour or shade , with necessary screws etc. complete - 200 x10 mm

2.00 112.81 each 226/-  
each

5.2 CODE NO. 9.100.1

Providing and fixing aluminium handles , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade,with necessary screws etc, complete - 125 mm

2.00 61.13 each 122/-

each

5.3 CODE NO. 9.117.2

Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance +<sub>-</sub> 1mm ), with wall thickness 2.0 mm (+-0.2mm) , corners of the door frame to be jointed with galvanized brackets and stainless steel screws , joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S.tube of size 19 x 19 mm and 1mm (+-0.1mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification - Extruded section profile size 42 x 50 mm

10.00 215.19 metre 2,152/-  
metre

5.4 CODE NO. 9.118.1

Providing and fixing to existing door frames - 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59 x 24 mm and wall thickness 2 mm (+- 0.2 mm) with inbuilt edging on both sides . The styles and rails mitred and joint at the corners by means of M.S. galvanised / plastic brackets of size 75 x 220 mm having wall thickness 1.0 mm and stainless steel screws . The styles of the shutter reinforced by inserting galvanised M.S.tube of size 20x20 mm and 1mm (+- 0.1mm) wall thickness . The lock rail made up of 'H' section , a uPVC hollow section of size 100 x 24 mm and 2 mm (+-0.2 mm) wall thickness , fixed to the shutter styles by means of plastic / galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multichambered single panel of size not less than 620 mm, having overall thickness of 20 mm and 1 mm (+<sub>-</sub> 0.1mm) wall thickness . They panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S.rod and fastened with nuts and washers , complete as per manufacturer's specification (For W.C. and bathroom door shutter)

4.00 1867.06 sqm 7,468/-  
sqm

5.5 CODE NO. 9.165.1A

Providing and fixing of 65mm

Godrej Navatal lock of 6 levers etc complete	1.00 each	432.88 each	433/-
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#### 6. STEEL WORK

6.1	CODE NO. 10.25.2 Steel work welded in built up sections / framed work , including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required - in gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	115.00 kg	100.08 kg	11,509/-
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#### 7. FLOORING

7.1	CODE NO. 11.36A Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) , of approved make (Jhonson / Asian / Somany / Nitco) in all colours , shades of size 200 x 300 mm as approved in skirting , risers of steps and dados, over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand ) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement with pigment of matching shade complete - size 200x300 mm	53.00 sqm	848.13 sqm	44,951/-
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7.2	CODE NO. 11.38.1 Providing and laying ceramic glazed floor tiles of size 300 x 300 mm (thickness to be specified by the manufacturer) , of 1st quality conforming to IS :15622, of approved make (Nitco / Kajaria ) in all colours, shades, except white , ivory, grey, fume red brown, laid on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), including pointing the joints with white cement and matching pigments etc., complete	18.00 sqm	1011.27 sqm	18,203/-
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#### 8. ROOFING

8.1	CODE NO. 12.15.1 Painting top of roofs with bitumen of approved quality @ 17kg per 10			
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	sq.m impregnated with a coat of coarse sand at 60cudm per 10 sq.m including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete - with residual type petroleum bitumen of grade VG-10	19.00 sqm	122.56 sqm	2,329/-
8.2	CODE NO. 12.20 Providing and laying pressed clay tiles (as per approved pattern 18mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound , laid over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete	24.00 sqm	555.87 sqm	13,341/-
8.3	CODE NO. 12.20L Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with Parapet wall complete	3.00 cum	5437.14 cum	16,311/-
8.4	CODE NO. 12.22 Making khurras 45x45cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20mm nominal size) over P.V.C. sheet 1m xlm x 400 micron , finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement , rounding the edges, making and finishing the outlet complete	1.00 each	244.20 each	244/-
8.5	CODE NO. 12.41.2 Providing and fixing on wall face unplastised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes - 110 mm diameter	4.00 metre	259.53 metre	1,038/-
8.6	CODE NO. 12.42.5.2 Providing and fixing on wall face unplastised - PVC moulded			

fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - bend 87.5 degree - 110 mm bend

1.00 159.74 each 160/-  
each

8.7 CODE NO. 12.42.6.2  
Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - shoe (plain) - 110mm shoe

1.00 316.94 each 317/-  
each

#### 9.FINISHING

9.1 CODE NO. 13.8.3  
12 mm cement plaster of mix 1:5 (1 cement : 5 fine sand)

73.00 185.13 sqm 13,514/-  
sqm

9.2 CODE NO. 13.10  
15 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or halfbrick wall

24.00 287.42 sqm 6,898/-  
sqm

9.3 CODE NO. 13.15  
20mm cement plaster 1:2 (1 cement : 2 stone dust)

48.00 290.22 sqm 13,931/-  
sqm

9.4 CODE NO. 13.17  
6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of lime wash on top of walls when dry for bearing of R.C.C. slabs and beams

52.00 207.47 sqm 10,788/-  
sqm

9.5 CODE NO. 13.21  
Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers

15.00 51.78 per bag 777/-  
per bag

9.6	CODE NO. 13.37.1 White washing with lime to give an even shade - new work (three or more coats)	19.00 sqm	18.25 sqm	347/-
9.7	CODE NO. 13.44.1 Finishing walls with water proofing cement paint of required shade - New work (Two or more coats applied @ 3.84 kg / 10 sqm)	97.00 sqm	68.92 sqm	6,685/-
9.8	CODE NO. 13.61.1 Painting with synthetic enamel paint of approved brand and manufacutre to give an even shade - Two or more coats on new work	3.00 sqm	86.78 sqm	260/-

#### 10. SANITARY INSTALLATION

10.1	CODE NO. 17.7.4 Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required - white vitreous china flat back wash basin size 550x400 mm with single 15mm C.P. brass pillar tap	1.00 each	2227.91 each	2,228/-
10.2	CODE NO. 17.13.2 Providing and fixing white vitreous china water closet squatting pan (Indian type) - Orissa pattern W.C. pan of size 580x440mm	2.00 each	1693.99 each	3,388/-
10.3	CODE NO. 17.28.1.1 Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete - semi rigid pipe - 32mm dia	1.00 each	49.00 each	49/-
10.4	CODE NO. 17.31 Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete	1.00 each	1296.31 each	1,296/-

## 11. WATER SUPPLY

11.1	<p>CODE NO. 18.7.1</p> <p>Providing and fixing Chlorinated Polyvinnyl Chloride (CPVC) pipes, having thermal stability for hot &amp; cold water supply, including all CPVC plain &amp; brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes &amp; fittings with one step CPVC solvent cement and testing of joints complete - internal work - exposed on wall - 15mm nominal outer dia pipes</p>	<p>5.00 186.85 metre metre</p>	<p>934/-</p>
11.2	<p>CODE NO. 18.9.11</p> <p>Providing and fixing ASTM pipes including all ASTM plain &amp; brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes &amp; fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 20mm nominal outer dia pipes</p>	<p>30.00 152.76 metre metre</p>	<p>4,583/-</p>
11.3	<p>CODE NO. 18.9.12</p> <p>Providing and fixing ASTM pipes including all ASTM plain &amp; brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes &amp; fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 25mm nominal outer dia pipes</p>	<p>25.00 169.56 metre metre</p>	<p>4,239/-</p>
11.4	<p>CODE NO. 18.9.14</p> <p>Providing and fixing ASTM pipes including all ASTM plain &amp; brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes &amp; fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 40mm nominal outer dia pipes</p>	<p>30.00 264.65 metre metre</p>	<p>7,940/-</p>
11.5	<p>CODE NO. 18.9.31</p> <p>Providing and fixing ASTM pipes including all ASTM plain &amp; brass threaded fittings this included jointing of pipes &amp; fittings with one step ASTM solvent cement ,</p>		

	trenching refilling & testing of joints complete (External work) - 20 mm nominal outer dia pipes	30.00 metre	110.68 metre	3,320/-
11.6	CODE NO. 18.9.32 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement , trenching refilling & testing of joints complete (External work) - 25 mm nominal outer dia pipes	40.00 metre	127.48 metre	5,099/-
11.7	CODE NO. 18.9.34 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement , trenching refilling & testing of joints complete (External work) - 40 mm nominal outer dia pipes	30.00 metre	181.92 metre	5,458/-
11.8	CODE NO. 18.17.1 Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 25mm nominal bore	2.00 each	397.33 each	795/-
11.9	CODE NO. 18.17.3 Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 40mm nominal bore	2.00 each	755.68 each	1,511/-
11.10	CODE NO. 18.19.3.2 Providing and fixing gun metal non -return valve of approved quality (screwed end) - 40 mm nominal bore - Vertical	1.00 each	530.80 each	531/-
11.11	CODE NO. 18.33.1 Constructing masonry chamber 60x60x75 cm inside , in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I.surface box 100 mm top diameter, 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation , foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm			



nominal size) and in side plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick , finished with a floating coat of neat cement complete as per standard design - with common burnt clay F.P.S (non modular) bricks of class designation 7.5

2.00 6638.04 each 13,276/-  
each

11.12 CODE NO. 18.46.3

Providing and fixing G.I.union in G.I.pipe including cutting and threading the pipe and making long screws etc.complete (New work) - 25mm nominal bore

1.00 244.08 each 244/-  
each

11.13 CODE NO. 18.46.5

Providing and fixing G.I.union in G.I.pipe including cutting and threading the pipe and making long screws etc.complete (New work) - 40 mm nominal bore

1.00 353.18 each 353/-  
each

11.14 CODE NO. 18.48A

Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked , with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank - Circular Tank

500.00 7.54 litre 3,770/-  
litre

11.15 CODE NO. 18.49.1

Providing and fixing C.P.brass bib cock of approved quality conforming to IS: 8931 - 15 mm nominal bore

10.00 528.71 each 5,287/-  
each

12.DRAINAGE

12.1 CODE NO. 19.33

Constructing soak pit 1.20 x 1.20 x 1.20 m filled with brickbats including S.W.drain pipe 100 mm diameter and 1.20 m long complete as per standard design

1.00 1789.50 each 1,790/-  
each

12.2 CODE NO. 19.33.1 )

Providing and fixing on wall / column face unplasticed - PVC soil and waste pipes (type - B) conforming to IS : 13592- 1992 including jointing with seal ring conformation to IS : 5382 leaving

10mm gap for thermal expansion - single socked pipes -110mm diametre	50.00	300.93 metre	15,047/-
		metre	
12.3 CODE NO. 19.33.1A Providing and fixing on wall face / column face unplasticised - PVC moulded fittings / accessories for unplasticised - PVC soil and waste pipes conforming to IS : 14735 -1999 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - Single tee with door - 110 x110x110 mm	6.00	265.81 each	1,595/-
		each	
12.4 CODE NO. 19.33.1C Providing and fixing on wall face / column face unplasticised - PVC mould fittings / accessories for unplasticised - PVC soil and waste pipes conforming to IS : 14735 - 1999 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - bend 110 mm	6.00	149.69 each	898/-
		each	
			-----
			7,78,203/-
13.1 Add GST at 12%			93,384/-
			-----
			8,71,587/-
14.1 Add electrification @ 12.50%			1,08,948/-
			-----
			9,80,535/-
15.1 Testing charges			10,000/-
16.1 Advertisement charges			10,000/-
17.1 Add Contingencies @ 3%			29,465/-
			-----
			Rs.10,30,000/-
			-----

(Rupees ten lakhs and thirty thousand only.)

**NAME OF WORK : Toilet (3 WC & 8 Urinals)**

**ABSTRACT OF ESTIMATE**

Item.No	Description of Items	Qty	Rate	Unit	Amount
BUILDING WORK					
1.EARTH WORK					
1.1	CODE NO. 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed , within a lead of 50m - all kinds of soil	73.00 cum	136.94	cum	9,997/-
1.2	CODE NO. 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5m	57.00 cum	121.42	cum	6,921/-
1.3	CODE NO. 2.27 Supplying and filling in plinth with river sand under floors, including watering ,ramming consolidating and dressing complete	4.00 cum	1875.52	cum	7,502/-
1.4	CODE NO. 2.27A.1 Supplying and filling with gravel (excluding rock) in trenches , plinth, sides of foundations etc . In layers not exceeding 20 cm in depth consolidating each deposited layers by ramming and watering etc .complete including all lead and lift	10.00 cum	633.19	cum	6,332/-
2.CONCRETE WORK					
2.1	CODE NO. 4.1.4 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto				

	plith level - 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size)	2.00 cum	5162.82 cum	10,326/-
2.2	CODE NO. 4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	4.00 cum	4159.05 cum	16,636/-
2.3	CODE NO. 4.1.10 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	6.00 cum	3872.73 cum	23,236/-
2.4	CODE NO. 4.1.11A Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded brick aggregate 40mm nominal size)	4.00 cum	3513.66 cum	14,055/-

### 3. REINFORCED CONCRETE WORK

3.1	CODE NO. 5.1.2 Providing and laying in position specified grade of reinforced cement concrete , excluding the cost of centering , shuttering , finishing and reinforcement - All work upto plinth level 1:1.5:3 (1cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	2.00 cum	6136.44 cum	12,273/-
3.2	CODE NO. 5.2.2 Reinforced cement concrete work in walls (any thickness) , including attached pilasters, buttresses , plinth and sting courses , fillets , columns , pillars , piers , abutments , posts and struts etc. upto floor five level excluding cost of centering , shuttering , finishing and reinforcement - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	12.00 cum	6926.03 cum	83,112/-

3.3	CODE NO. 5.9.3 Centering and shuttering including strutting , propping etc and removal of form for - Suspended floors , roofs , landings , balconies and access platform	43.00 sqm	491.08 sqm	21,116/-
3.4	CODE NO. 5.9.5 Centering and shuttering including strutting , propping etc and removal of form for - Lintels , beams , plinth beams , girders , bressumers and catilevers	34.00 sqm	396.69 sqm	13,487/-
3.5	CODE NO. 5.16 Providing , hoisting and fixing upto floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand) , cost of required centering , shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)	1.00 cum	12256.79 cum	12,257/-
3.6	CODE NO. 5.18.1 Providing precast cement concrete jali 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning , fixing and finishing in cement mortar 1:3 ( 1 cement : 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits - 50mm thick	4.00 sqm	1098.66 sqm	4,395/-
3.7	CODE NO. 5.22.6 Steel reinforcement for R.C.C.work including straightening , cutting , bending , placing in position and binding all complete upto plinth level - Thermo -Mechanically treated bars (TISCO / VIZAG / IISCO / SAIL / JSW) Fe - 415 or more	1400.00 kg	79.77 kg	1,11,678/-

#### 4. BRICK WORK

4.1	CODE NO. 6.1.1 Brick work with common burnt clay F.P.S. (non modular ) bricks of
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	class designation 7.5 in foundation and plinth in - cement mortar 1:4 (1 cement : 4 coarse sand)	16.00 cum	5348.97 cum	85,584/-
4.2	CODE NO. 6.1.2 Brick work with common burnt clay F.P.S. (non modular ) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:6 (1 cement : 6 coarse sand)	13.00 cum	5116.33 cum	66,512/-
4.3	CODE NO. 6.4.1 Brick work with common burnt clay F.P.S (non modular ) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:4 ( 1 cement : 4 coarse sand)	14.00 cum	6184.12 cum	86,578/-
4.4	CODE NO. 6.13.2 Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level - cement mortar 1:4 (1 cement : 4 coarse sand)	13.00 sqm	728.00 sqm	9,464/-
4.5	CODE NO. 6.15 Extra for providing and placing in position 2 nos 6mm dia M.S.bars at every third course of half brick masonry	13.00 sqm	80.45 sqm	1,046/-

#### 5. WOOD WORK

5.1	CODE NO. 9.97.3 Providing and fixing aluminium tower bolts , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS :1868) , transparent or dyed to required colour or shade , with necessary screws etc. complete - 200 x10 mm	3.00 each	112.81 each	338/-
5.2	CODE NO. 9.100.1 Providing and fixing aluminium handles , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade,with necessary screws etc, complete - 125 mm	3.00 each	61.13 each	183/-

- 5.3 CODE NO. 9.117.2  
 Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance  $\pm 1$ mm), with wall thickness 2.0 mm ( $\pm 0.2$ mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S.tube of size 19 x 19 mm and 1mm ( $\pm 0.1$ mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification - Extruded section profile size 42 x 50 mm
- 15.00 215.19 metre 3,228/-  
 metre
- 5.4 CODE NO. 9.118.1  
 Providing and fixing to existing door frames - 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59 x 24 mm and wall thickness 2 mm ( $\pm 0.2$  mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanized / plastic brackets of size 75 x 220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanized M.S.tube of size 20x20 mm and 1mm ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100 x 24 mm and 2 mm ( $\pm 0.2$  mm) wall thickness, fixed to the shutter styles by means of plastic / galvanized M.S. 'U' cleats. The shutter frame filled with a uPVC multichambered single panel of size not less than 620 mm, having overall thickness of 20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. They panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanized M.S.rod and fastened with nuts and washers, complete as per manufacturer's specification (For W.C. and bathroom door shutter)
- 5.00 1867.06 sqm 9,335/-  
 sqm
- 5.5 CODE NO. 9.165.1A  
 Providing and fixing of 65mm

Godrej Navatal lock of 6 levers  
etc complete

1.00 432.88 each 433/-  
each

#### 6. STEEL WORK

6.1 CODE NO. 10.25.1

Steel work welded in built up sections / framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required - in stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required all complete

115.00 73.37 kg 8,438/-  
kg

#### 7. FLOORING

7.1 CODE NO. 11.36A

Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make (Jhonson / Asian / Somany / Nitco) in all colours, shades of size 200 x 300 mm as approved in skirting, risers of steps and dados, over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement with pigment of matching shade complete - size 200x300 mm

59.00 848.13 sqm 50,040/-  
sqm

7.2 CODE NO. 11.38.1

Providing and laying ceramic glazed floor tiles of size 300 x 300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS :15622, of approved make (Nitco / Kajaria) in all colours, shades, except white, ivory, grey, fume red brown, laid on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), including pointing the joints with white cement and matching pigments etc., complete

25.00 1011.27 sqm 25,282/-  
sqm

#### 8. ROOFING

8.1 CODE NO. 12.15.1

Painting top of roofs with bitumen of approved quality @ 17kg per 10 sq.m impregnated with a coat of



	coarse sand at 60cudm per 10 sq.m including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete - with residual type petroleum bitumen of grade VG-10	25.00 sqm	122.56 sqm	3,064/-
8.2	CODE NO. 12.20 Providing and laying pressed clay tiles (as per approved pattern 18mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound , laid over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete	30.00 sqm	555.87 sqm	16,676/-
8.3	CODE NO. 12.20L Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with Parapet wall complete	5.00 cum	5437.14 cum	27,186/-
8.4	CODE NO. 12.22 Making khurras 45x45cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20mm nominal size) over P.V.C. sheet 1m x 1m x 400 micron , finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement , rounding the edges, making and finishing the outlet complete	2.00 each	244.20 each	488/-
8.5	CODE NO. 12.41.2 Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes - 110 mm diameter	8.00 metre	259.53 metre	2,076/-
8.6	CODE NO. 12.42.5.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for			

unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - bend 87.5 degree - 110 mm bend

2.00 159.74 each 319/-  
each

8.7 CODE NO. 12.42.6.2

Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - shoe (plain) - 110mm shoe

2.00 316.94 each 634/-  
each

#### 9. FINISHING

9.1 CODE NO. 13.8.3

12 mm cement plaster of mix 1:5 (1 cement : 5 fine sand)

82.00 185.13 sqm 15,181/-  
sqm

9.2 CODE NO. 13.10

15 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or halfbrick wall

32.00 287.42 sqm 9,197/-  
sqm

9.3 CODE NO. 13.15

20mm cement plaster 1:2 (1 cement : 2 stone dust)

48.00 290.22 sqm 13,931/-  
sqm

9.4 CODE NO. 13.17

6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of lime wash on top of walls when dry for bearing of R.C.C. slabs and beams

62.00 207.47 sqm 12,863/-  
sqm

9.5 CODE NO. 13.21

Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers

15.00 51.78 per bag 777/-  
per bag

9.6 CODE NO. 13.37.1

White washing with lime to give an even shade - new work (three or more coats)

25.00 18.25 sqm 456/-  
sqm

9.7	CODE NO. 13.44.1 Finishing walls with water proofing cement paint of required shade - New work (Two or more coats applied @ 3.84 kg / 10 sqm)	114.00 sqm	68.92 sqm	7,857/-
9.8	CODE NO. 13.61.1 Painting with synthetic enamel paint of approved brand and manufacutre to give an even shade - Two or more coats on new work	3.00 sqm	86.78 sqm	260/-

#### 10.SANITARY INSTALLATION

10.1	CODE NO. 17.7.4 Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass pillar taps ,32 mm C.P.brass waste of standard pattern , including painting of fittings and brackets ,cutting and making good the walls wherever required - white vitreous china flat back wash basin size 550x400 mm with single 15mm C.P. brass pillar tap	1.00 each	2227.91 each	2,228/-
10.2	CODE NO. 17.13.2 Providing and fixing white vitreous china water closet squatting pan (Indian type) - Orissa pattern W.C.pan of size 580x440mm	3.00 each	1693.99 each	5,082/-
10.3	CODE NO. 17.28.1.1 Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete - semi rigid pipe - 32mm dia	1.00 each	49.00 each	49/-
10.4	CODE NO. 17.31 Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P.brass screws and washers complete	1.00 each	1296.31 each	1,296/-

#### 11.WATER SUPPLY

11.1	CODE NO. 18.7.1 Providing and fixing Chlorinated Polyvinnyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all
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	CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete - internal work - exposed on wall - 15mm nominal outer dia pipes	8.00 metre	186.85 metre	1,495/-
11.2	CODE NO. 18.9.11 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 20mm nominal outer dia pipes	30.00 metre	152.76 metre	4,583/-
11.3	CODE NO. 18.9.12 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 25mm nominal outer dia pipes	25.00 metre	169.56 metre	4,239/-
11.4	CODE NO. 18.9.14 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 40mm nominal outer dia pipes	30.00 metre	264.65 metre	7,940/-
11.5	CODE NO. 18.9.31 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement , trenching refilling & testing of joints complete (External work) - 20 mm nominal outer dia pipes	30.00 metre	110.68 metre	3,320/-
11.6	CODE NO. 18.9.32 Providing and fixing ASTM pipes including all ASTM plain & brass			

threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement, trenching refilling & testing of joints complete (External work) - 25 mm nominal outer dia pipes

40.00 127.48 metre 5,099/-  
metre

11.7 CODE NO. 18.9.34

Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement, trenching refilling & testing of joints complete (External work) - 40 mm nominal outer dia pipes

30.00 181.92 metre 5,458/-  
metre

11.8 CODE NO. 18.17.1

Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 25mm nominal bore

2.00 397.33 each 795/-  
each

11.9 CODE NO. 18.17.3

Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 40mm nominal bore

2.00 755.68 each 1,511/-  
each

11.10 CODE NO. 18.19.3.2

Providing and fixing gun metal non-return valve of approved quality (screwed end) - 40 mm nominal bore - Vertical

1.00 530.80 each 531/-  
each

11.11 CODE NO. 18.33.1

Constructing masonry chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I.surface box 100 mm top diameter, 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and in side plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design - with common burnt clay F.P.S (non modular) bricks of class designation 7.5

2.00 6638.04 each 13,276/-  
each

11.12	CODE NO. 18.46.3 Providing and fixing G.I.union in G.I.pipe including cutting and threading the pipe and making long screws etc.complete (New work) - 25mm nominal bore	1.00 each	244.08 each	244/-
11.13	CODE NO. 18.46.5 Providing and fixing G.I.union in G.I.pipe including cutting and threading the pipe and making long screws etc.complete (New work) - 40 mm nominal bore	1.00 each	353.18 each	353/-
11.14	CODE NO. 18.48A Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked , with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank - Circular Tank	500.00 litre	7.54 litre	3,770/-
11.15	CODE NO. 18.49.1 Providing and fixing C.P.brass bib cock of approved quality conforming to IS: 8931 - 15 mm nominal bore	15.00 each	528.71 each	7,931/-

## 12.DRAINAGE

12.1	CODE NO. 19.33 Constructing soak pit 1.20 x 1.20 x 1.20 m filled with brickbats including S.W.drain pipe 100 mm diameter and 1.20 m long complete as per standard design	1.00 each	1789.50 each	1,790/-
12.2	CODE NO. 19.33.1 Providing and fixing on wall / column face unplasticed - PVC soil and waste pipes (type - B) conforming to IS : 13592- 1992 including jointing with seal ring conformation to IS : 5382 leaving 10mm gap for thermal expansion - single socked pipes -110mm diametre	60.00 metre	300.93 metre	18,056/-
12.3	CODE NO. 19.33.1A Providing and fixing on wall face / column face unplasticised - PVC moulded fittings / accessories for unplasticisd - PVC soil and waste pipes conforming to IS : 14735			

-1999 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - Single tee with door - 110 x110x110 mm

10.00 265.81 each 2,658/-  
each

12.4 CODE NO. 19.33.1C

Providing and fixing on wall face / column face unplasticised - PVC mould fittings / accessories for unplasticised - PVC soil and waste pipes conforming to IS : 14735 - 1999 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - bend 110 mm

10.00 149.69 each 1,497/-  
each

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9,03,950/-

13.1 Add GST at 12%

1,08,474/-

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10,12,424/-

14.1 Add electrification @ 12.50%

1,26,553/-

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11,38,977/-

15.1 Testing charges

10,000/-

16.1 Advertisement charges

10,000/-

17.1 Add Contingencies @ 3%

35,023/-

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Rs.11,94,000/-  
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(Rupees eleven lakhs and ninety four thousand only.)

**NAME OF WORK : Toilets (5 WC & 12 Urinals)**

**ABSTRACT OF ESTIMATE**

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 Item.No      Description of Items                      Qty              Rate      Unit              Amount  
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BUILDING WORK

1.EARTH WORK

1.1	CODE NO. 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m - all kinds of soil	101.00 cum	136.94 cum	13,831/-
1.2	CODE NO. 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5m	75.00 cum	121.42 cum	9,107/-
1.3	CODE NO. 2.27 Supplying and filling in plinth with river sand under floors, including watering, ramming consolidating and dressing complete	5.00 cum	1875.52 cum	9,378/-
1.4	CODE NO. 2.27A.1 Supplying and filling with gravel (excluding rock) in trenches, plinth, sides of foundations etc. In layers not exceeding 20 cm in depth consolidating each deposited layers by ramming and watering etc. complete including all lead and lift	15.00 cum	633.19 cum	9,498/-

2.CONCRETE WORK

2.1	CODE NO. 4.1.4 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto			
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	plith level - 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size)	2.00 cum	5162.82 cum	10,326/-
2.2	CODE NO. 4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	6.00 cum	4159.05 cum	24,954/-
2.3	CODE NO. 4.1.10 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	8.00 cum	3872.73 cum	30,982/-
2.4	CODE NO. 4.1.11A Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded brick aggregate 40mm nominal size)	4.00 cum	3513.66 cum	14,055/-

### 3. REINFORCED CONCRETE WORK

3.1	CODE NO. 5.1.2 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work upto plinth level 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	2.00 cum	6136.44 cum	12,273/-
3.2	CODE NO. 5.2.2 Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. upto floor five level excluding cost of centering, shuttering, finishing and reinforcement - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	17.00 cum	6926.03 cum	1,17,743/-

3.3	CODE NO. 5.9.3 Centering and shuttering including strutting , propping etc and removal of form for - Suspended floors , roofs , landings , balconies and access platform	56.00 sqm	491.08 sqm	27,500/-
3.4	CODE NO. 5.9.5 Centering and shuttering including strutting , propping etc and removal of form for - Lintels , beams , plinth beams , girders , bressumers and catilevers	43.00 sqm	396.69 sqm	17,058/-
3.5	CODE NO. 5.16 Providing , hoisting and fixing upto floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand) , cost of required centering , shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)	2.00 cum	12256.79 cum	24,514/-
3.6	CODE NO. 5.18.1 Providing precast cement concrete jali 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning , fixing and finishing in cement mortar 1:3 ( 1 cement : 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits - 50mm thick	6.00 sqm	1098.66 sqm	6,592/-
3.7	CODE NO. 5.22.6 Steel reinforcement for R.C.C.work including straightening , cutting , bending , placing in position and binding all complete upto plinth level - Thermo-Mechanically treated bars (TISCON / VIZAG / IISCO / SAIL / JSW) Fe - 415 or more	1700.00 kg	79.77 kg	1,35,609/-

#### 4. BRICK WORK

4.1	CODE NO. 6.1.1 Brick work with common burnt clay F.P.S. (non modular ) bricks of
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	class designation 7.5 in foundation and plinth in - cement mortar 1:4 (1 cement : 4 coarse sand)	20.00 cum	5348.97 cum	1,06,979/-
4.2	CODE NO. 6.1.2 Brick work with common burnt clay F.P.S. (non modular ) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:6 (1 cement : 6 coarse sand)	16.00 cum	5116.33 cum	81,861/-
4.3	CODE NO. 6.4.1 Brick work with common burnt clay F.P.S (non modular ) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:4 ( 1 cement : 4 coarse sand)	18.00 cum	6184.12 cum	1,11,314/-
4.4	CODE NO. 6.13.2 Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level - cement mortar 1:4 (1 cement : 4 coarse sand)	28.00 sqm	728.00 sqm	20,384/-
4.5	CODE NO. 6.15 Extra for providing and placing in position 2 nos 6mm dia M.S.bars at every third course of half brick masonry	28.00 sqm	80.45 sqm	2,253/-

#### 5.WOOD WORK

5.1	CODE NO. 9.97.3 Providing and fixing aluminium tower bolts , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS :1868) , transparent or dyed to required colour or shade , with necessary screws etc. complete - 200 x10 mm	5.00 each	112.81 each	564/-
5.2	CODE NO. 9.100.1 Providing and fixing aluminium handles , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade,with necessary screws etc, complete - 125 mm	5.00 each	61.13 each	306/-

5.3 CODE NO. 9.117.2

Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance + 1mm), with wall thickness 2.0 mm (+-0.2mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S.tube of size 19 x 19 mm and 1mm (+-0.1mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification - Extruded section profile size 42 x 50 mm

25.00 215.19 metre 5,380/-  
metre

5.4 CODE NO. 9.118.1

Providing and fixing to existing door frames - 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59 x 24 mm and wall thickness 2 mm (+- 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised / plastic brackets of size 75 x 220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S.tube of size 20x20 mm and 1mm (+- 0.1mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100 x 24 mm and 2 mm (+-0.2 mm) wall thickness, fixed to the shutter styles by means of plastic / galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multichambered single panel of size not less than 620 mm, having overall thickness of 20 mm and 1 mm (+ 0.1mm) wall thickness. They panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S.rod and fastened with nuts and washers, complete as per manufacturer's specification (For W.C. and bathroom door shutter)

8.00 1867.06 sqm 14,936/-  
sqm

5.5 CODE NO. 9.165.1A  
Providing and fixing of 65 mm Godraj  
Navatal ;lock of 6 levers etc., complete.

1.00 432.88 each 433/-  
No.

#### 6. STEEL WORK

6.1 CODE NO. 10.25.1  
Steel work welded in built up  
sections / framed work , including  
cutting, hoisting, fixing in  
position and applying a priming  
coat of approved steel primer  
using structural steel etc. as  
required - in stringers, treads,  
landings etc. of stair cases,  
including use of chequered plate  
wherever required all complete

115.00 73.37 kg 8,438/-  
kg

#### 7. FLOORING

7.1 CODE NO. 11.36A  
Providing and fixing 1st quality  
ceramic glazed wall tiles  
conforming to IS : 15622  
(thickness to be specified by the  
manufacturer) , of approved make  
(Jhonson / Asian / Somany / Nitco)  
in all colours , shades of size  
200 x 300 mm as approved in  
skirting , risers of steps and  
dados, over 12mm thick bed of  
cement mortar 1:3 (1 cement : 3  
coarse sand ) and jointing with  
grey cement slurry @ 3.3 kg per  
sqm, including pointing in white  
cement with pigment of matching  
shade complete - size 200x300 mm

120.00 848.13 sqm 1,01,776/-  
sqm

7.2 Code No.11.38.1  
Providing and laying ceramic glazed  
floor tiles of size 300 x 300 mm (thickness  
to be specified by the manufacturer), of  
1<sup>st</sup> quality conforming to IS : 15622, of  
approved make (Nitcoo/Kajari) in all colours,  
shades, except white, irory, gray, fums red  
brown, laid on 20 mm thick bed of cement mortar  
1:4 (1 cement : 4 coarse sand), including  
pointing the joints with white cement and  
matching pigments etc., complete.

37.00 1011.27 sqm 37,417/-  
sqm

#### 8. ROOFING

8.1 CODE NO. 12.15.1  
Painting top of roofs with bitumen  
of approved quality @ 17kg per 10

	sq.m impregnated with a coat of coarse sand at 60cudm per 10 sq.m including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete - with residual type petroleum bitumen of grade VG-10	36.00 sqm	122.56 sqm	4,412/-
8.2	CODE NO. 12.20 Providing and laying pressed clay tiles (as per approved pattern 18mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound , laid over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete	43.00 sqm	555.87 sqm	23,902/-
8.3	CODE NO. 12.20L Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with Parapet wall complete	5.00 cum	5437.14 cum	27,186/-
8.4	CODE NO. 12.22 Making khurras 45x45cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20mm nominal size) over P.V.C. sheet 1m x 1m x 400 micron , finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement , rounding the edges, making and finishing the outlet complete	2.00 each	244.20 each	488/-
8.5	CODE NO. 12.41.2 Providing and fixing on wall face unplastised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes - 110 mm diameter	8.00 metre	259.53 metre	2,076/-
8.6	CODE NO. 12.42.5.2 Providing and fixing on wall face unplastised - PVC moulded			

fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - bend 87.5 degree - 110 mm bend

2.00 159.74 each 319/-  
each

8.7 CODE NO. 12.42.6.2

Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - shoe (plain) - 110mm shoe

2.00 316.94 each 634/-  
each

#### 9. FINISHING

9.1 CODE NO. 13.8.3

12 mm cement plaster of mix 1:5 (1 cement : 5 fine sand)

103.00 185.13 sqm 19,068/-  
sqm

9.2 CODE NO. 13.10

15 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or halfbrick wall

32.00 287.42 sqm 9,197/-  
sqm

9.3 CODE NO. 13.15

20mm cement plaster 1:2 (1 cement : 2 stone dust)

65.00 290.22 sqm 18,864/-  
sqm

9.4 CODE NO. 13.17

6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of lime wash on top of walls when dry for bearing of R.C.C. slabs and beams

84.00 207.47 sqm 17,427/-  
sqm

9.5 CODE NO. 13.21

Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers

20.00 51.78 per bag 1,036/-  
per bag

9.6 CODE NO. 13.37.1

White washing with lime to give an even shade - new work (three or more coats)

36.00 18.25 sqm 657/-  
sqm

9.7	CODE NO. 13.44.1 Finishing walls with water proofing cement paint of required shade - New work (Two or more coats applied @ 3.84 kg / 10 sqm)	135.00 sqm	68.92 sqm	9,304/-
9.8	CODE NO. 13.61.1 Painting with synthetic enamel paint of approved brand and manufacutre to give an even shade - Two or more coats on new work	3.00 sqm	86.78 sqm	260/-

#### 10. SANITARY INSTALLATION

10.1	CODE NO. 17.7.4 Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass pillar taps ,32 mm C.P.brass waste of standard pattern , including painting of fittings and brackets ,cutting and making good the walls wherever required - white vitreous china flat back wash basin size 550x400 mm with single 15mm C.P. brass pillar tap	1.00 each	2227.91 each	2,228/-
10.2	CODE NO. 17.13.2 Providing and fixing white vitreous china water closet squatting pan (Indian type) - Orissa pattern W.C.pan of size 580x440mm	5.00 each	1693.99 each	8,470/-
10.3	CODE NO. 17.28.1.1 Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete - semi rigid pipe - 32mm dia	1.00 each	49.00 each	49/-
10.4	CODE NO. 17.31 Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P.brass screws and washers complete	1.00 each	1296.31 each	1,296/-

#### 11. WATER SUPPLY

11.1	CODE NO. 18.7.1 Providing and fixing Chlorinated Polyvinnyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all			
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	CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete - internal work - exposed on wall - 15mm nominal outer dia pipes	12.00 metre	186.85 metre	2,242/-
11.2	CODE NO. 18.9.11 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 20mm nominal outer dia pipes	30.00 metre	152.76 metre	4,583/-
11.3	Code NO.19.9.12 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fitting with one step ASTM solvent cement and testing of joints complete (internal work exposed on wall) - 25 mm nominal outer dia pipes.	25.00 metre	169.56 metre	4,239/-
11.4	CODE NO. 18.9.14 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 40mm nominal outer dia pipes	30.00 metre	264.65 metre	7,940/-
11.5	CODE NO. 18.9.31 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement , trenching refilling & testing of joints complete (External work) - 20 mm nominal outer dia pipes	30.00 metre	110.68 metre	3,320/-
11.6	CODE NO. 18.9.32 Providing and fixing ASTM pipes including all ASTM plain & brass			

threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement , trenching refilling & testing of joints complete (External work) - 25 mm nominal outer dia pipes

40.00 127.48 metre 5,099/-  
metre

11.7 CODE NO. 18.9.34

Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement , trenching refilling & testing of joints complete (External work) - 40 mm nominal outer dia pipes

30.00 181.92 metre 5,458/-  
metre

11.8 CODE NO. 18.17.1

Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 25mm nominal bore

2.00 397.33 each 795/-  
each

11.9 CODE NO. 18.17.3

Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 40mm nominal bore

2.00 755.68 each 1,511/-  
each

11.10 CODE NO. 18.19.3.2

Providing and fixing gun metal non-return valve of approved quality (screwed end) - 40 mm nominal bore - Vertical

1.00 530.80 each 531/-  
each

11.11 CODE NO. 18.33.1

Constructing masonry chamber 60x60x75 cm inside , in brick work in cement mortar 1.4 (1 cement : 4 coarse sand) for sluice valve, with C.I.surface box 100 mm top diametre, 160mm bottom diametre and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation , foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and in side plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick , finished with a floating coat of neat cement complete as per standard design - with common burnt clay F.P.S (non modular) bricks of class designation 7.5

2.00 6638.04 each 13,276/-  
each

11.12	CODE NO. 18.46.3 Providing and fixing G.I.union in G.I.pipe including cutting and threading the pipe and making long screws etc.complete (New work) - 25mm nominal bore	1.00 each	244.08 each	244/-
11.13	CODE NO. 18.46.5 Providing and fixing G.I.union in G.I.pipe including cutting and threading the pipe and making long screws etc.complete (New work) - 40 mm nominal bore	1.00 each	353.18 each	353/-
11.14	CODE NO. 18.48A Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked , with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank - Circular Tank	1000.00 litre	7.54 litre	7,540/-
11.15	CODE NO. 18.49.1 Providing and fixing C.P.brass bib cock of approved quality conforming to IS: 8931 - 15 mm nominal bore	23.00 each	528.71 each	12,160/-

## 12.DRAINAGE

12.1	CODE NO. 19.33 Constructing soak pit 1.20 x 1.20 x 1.20 m filled with brickbats including S.W.drain pipe 100 mm diameter and 1.20 m long complete as per standard design	1.00 each	1789.50 each	1,790/-
12.2	CODE NO. 19.33.1 Providing and fixing on wall / column face unplasticed - PVC soil and waste pipes (type - B) conforming to IS : 13592- 1992 including jointing with seal ring conformation to IS : 5382 leaving 10mm gap for thermal expansion - single socked pipes -110mm diametre	60.00 metre	300.93 metre	18,056/-
12.3	CODE NO. 19.33.1A Providing and fixing on wall face / column face unplasticised - PVC moulded fittings / accessories for unplasticisd - PVC soil and waste pipes conforming to IS : 14735			

	-1999 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - Single tee with door - 110 x110x110 mm	10.00 each	265.81 each	2,658/-
12.4	CODE NO. 19.33.1C Providing and fixing on wall face / column face unplasticised - PVC mould fittings / accessories for unplasticised - PVC soil and waste pipes conforming to IS : 14735 - 1999 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - bend 110 mm	10.00 each	149.69 each	1,497/-
				----- 11,95,626/-
13.1	Add GST at 12%			1,43,475/- ----- 13,39,101/-
14.1	Add electrification @ 12.50%			1,67,388/- ----- 15,06,489/-
15.1	Testing charges			10,000/-
16.1	Advertisement charges			10,000/-
17.1	Add Contingencies @ 3%			45,511/- ----- Rs.15,72,000/- -----

(Rupees fifteen lakhs and seventy two thousand only.)

NAME OF WORK : 4 Seater

ABSTRACT OF ESTIMATE

Item.No	Description of Items	Qty	Rate	Unit	Amount
BUILDING WORK					
1.EARTH WORK					
1.1	CODE NO. 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed , within a lead of 50m - all kinds of soil	71.00	136.94	cum	9,723/-
1.2	CODE NO. 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5m	54.00	121.42	cum	6,557/-
1.3	CODE NO. 2.27 Supplying and filling in plinth with river sand under floors, including watering ,ramming consolidating and dressing complete	3.00	1875.52	cum	5,627/-
1.4	CODE NO. 2.27A.1 Supplying and filling with gravel (excluding rock) in trenches , plinth, sides of foundations etc . In layers not exceeding 20 cm in depth consolidating each deposited layers by ramming and watering etc .complete including all lead and lift	6.00	633.19	cum	3,799/-

2.CONCRETE WORK

2.1 CODE NO. 4.1.4  
Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto

	plith level - 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size)	2.00 cum	5162.82 cum	10,326/-
2.2	CODE NO. 4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	4.00 cum	4159.05 cum	16,636/-
2.3	CODE NO. 4.1.10 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	5.00 cum	3872.73 cum	19,364/-
2.4	CODE NO. 4.1.11A Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded brick aggregate 40mm nominal size)	3.00 cum	3513.66 cum	10,541/-

### 3. REINFORCED CONCRETE WORK

3.1	CODE NO. 5.1.2 Providing and laying in position specified grade of reinforced cement concrete , excluding the cost of centering , shuttering , finishing and reinforcement - All work upto plinth level 1:1.5:3 (1cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	2.00 cum	6136.44 cum	12,273/-
3.2	CODE NO. 5.2.2 Reinforced cement concrete work in walls (any thickness) , including attached pilasters, buttresses , plinth and sting courses , fillets , columns , pillars , piers , abutments , posts and struts etc. upto floor five level excluding cost of centering , shuttering , finishing and reinforcement - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	11.00 cum	6926.03 cum	76,186/-

3.3	CODE NO. 5.9.3 Centering and shuttering including strutting , propping etc and removal of form for - Suspended floors , roofs , landings , balconies and access platform	38.00 sqm	491.08 sqm	18,661/-
3.4	CODE NO. 5.9.5 Centering and shuttering including strutting , propping etc and removal of form for - Lintels , beams , plinth beams , girders , bressumers and catilevers	32.00 sqm	396.69 sqm	12,694/-
3.5	CODE NO. 5.16 Providing , hoisting and fixing upto floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand) , cost of required centering , shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)	0.40 cum	12256.79 cum	4,903/-
3.6	CODE NO. 5.18.1 Providing precast cement concrete jali 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning , fixing and finishing in cement mortar 1:3 ( 1 cement : 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits - 50mm thick	3.00 sqm	1098.66 sqm	3,296/-
3.7	CODE NO. 5.22.6 Steel reinforcement for R.C.C.work including straightening , cutting , bending , placing in position and binding all complete upto plinth level - Thermo -Mechanically treated bars (TISCO / VIZAG / IISCO / SAIL / JSW) Fe - 415 or more	1100.00 kg	79.77 kg	87,747/-

#### 4. BRICK WORK

4.1	CODE NO. 6.1.1 Brick work with common burnt clay F.P.S. (non modular ) bricks of			
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	class designation 7.5 in foundation and plinth in - cement mortar 1:4 (1 cement : 4 coarse sand)	16.00 cum	5348.97 cum	85,584/-
4.2	CODE NO. 6.1.2 Brick work with common burnt clay F.P.S. (non modular ) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:6 (1 cement : 6 coarse sand)	12.00 cum	5116.33 cum	61,396/-
4.3	CODE NO. 6.4.1 Brick work with common burnt clay F.P.S (non modular ) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:4 ( 1 cement : 4 coarse sand)	13.00 cum	6184.12 cum	80,394/-
4.4	CODE NO. 6.13.2 Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level - cement mortar 1:4 (1 cement : 4 coarse sand)	15.00 sqm	728.00 sqm	10,920/-
4.5	CODE NO. 6.15 Extra for providing and placing in position 2 nos 6mm dia M.S.bars at every third course of half brick masonry	15.00 sqm	80.45 sqm	1,207/-

#### 5.WOOD WORK

5.1	CODE NO. 9.97.3 Providing and fixing aluminium tower bolts , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS :1868) , transparent or dyed to required colour or shade , with necessary screws etc. complete - 200 x10 mm	4.00 each	112.81 each	451/-
5.2	CODE NO. 9.100.1 Providing and fixing aluminium handles , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade,with necessary screws etc, complete - 125 mm	4.00 each	61.13 each	245/-



5.3 CODE NO. 9.117.2

Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance  $\pm 1$ mm), with wall thickness 2.0 mm ( $\pm 0.2$ mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S.tube of size 19 x 19 mm and 1mm ( $\pm 0.1$ mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification - Extruded section profile size 42 x 50 mm

20.00 215.19 metre 4,304/-  
metre

5.4 CODE NO. 9.118.1

Providing and fixing to existing door frames - 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59 x 24 mm and wall thickness 2 mm ( $\pm 0.2$  mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanized / plastic brackets of size 75 x 220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanized M.S.tube of size 20x20 mm and 1mm ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100 x 24 mm and 2 mm ( $\pm 0.2$  mm) wall thickness, fixed to the shutter styles by means of plastic / galvanized M.S. 'U' cleats. The shutter frame filled with a uPVC multichambered single panel of size not less than 620 mm, having overall thickness of 20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. They panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanized M.S.rod and fastened with nuts and washers, complete as per manufacturer's specification (For W.C. and bathroom door shutter)

7.00 1867.06 sqm 13,069/-  
sqm

5.5 CODE NO. 9.165.1A

Providing and fixing of 65mm

Godrej Navatal lock of 6 levers etc complete	1.00 each	432.88 each	433/-
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#### 6. STEEL WORK

6.1	CODE NO. 10.25.1 Steel work welded in built up sections / framed work , including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required - in stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required all complete	115.00 kg	73.37 kg	8,438/-
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#### 7. FLOORING

7.1	CODE NO. 11.36A Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) , of approved make (Jhonson / Asian / Somany / Nitco) in all colours , shades of size 200 x 300 mm as approved in skirting , risers of steps and dados, over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand ) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement with pigment of matching shade complete - size 200x300 mm	62.00 sqm	848.13 sqm	52,584/-
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7.2	CODE NO. 11.38.1 Providing and laying ceramic glazed floor tiles of size 300 x 300 mm (thickness to be specified by the manufacturer) , of 1st quality conforming to IS :15622, of approved make (Nitco / Kajaria ) in all colours, shades, except white , ivory, grey, fume red brown, laid on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), including pointing the joints with white cement and matching pigments etc., complete	19.00 sqm	1011.27 sqm	19,214/-
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#### 8. ROOFING

8.1	CODE NO. 12.15.1 Painting top of roofs with bitumen of approved quality @ 17kg per 10 sq.m impregnated with a coat of			
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	coarse sand at 60cudm per 10 sq.m including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete - with residual type petroleum bitumen of grade VG-10	19.00 sqm	122.56 sqm	2,329/-
8.2	CODE NO. 12.20 Providing and laying pressed clay tiles (as per approved pattern 18mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound , laid over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete	24.00 sqm	555.87 sqm	13,341/-
8.3	CODE NO. 12.20L Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with Parapet wall complete	3.00 cum	5437.14 cum	16,311/-
8.4	CODE NO. 12.22 Making khurras 45x45cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20mm nominal size) over P.V.C. sheet 1m x 1m x 400 micron , finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement , rounding the edges, making and finishing the outlet complete	1.00 each	244.20 each	244/-
8.5	CODE NO. 12.41.2 Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes - 110 mm diameter	4.00 metre	259.53 metre	1,038/-
8.6	CODE NO. 12.42.5.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for			

unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - bend 87.5 degree - 110 mm bend

1.00 159.74 each 160  
each

8.7 CODE NO. 12.42.6.2

Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - shoe (plain) - 110mm shoe

1.00 316.94 each 317/-  
each

#### 9. FINISHING

9.1 CODE NO. 13.8.3

12 mm cement plaster of mix 1:5 (1 cement : 5 fine sand)

74.00 185.13 sqm 13,700/-  
sqm

9.2 CODE NO. 13.10

15 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or halfbrick wall

28.00 287.42 sqm 8,048/-  
sqm

9.3 CODE NO. 13.15

20mm cement plaster 1:2 (1 cement : 2 stone dust)

48.00 290.22 sqm 13,931/-  
sqm

9.4 CODE NO. 13.17

6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of lime wash on top of walls when dry for bearing of R.C.C. slabs and beams

54.00 207.47 sqm 11,203/-  
sqm

9.5 CODE NO. 13.21

Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers

15.00 51.78 per bag 777/-  
per bag

9.6 CODE NO. 13.37.1

White washing with lime to give an even shade - new work (three or more coats)

19.00 18.25 sqm 347/-  
sqm

9.7	CODE NO. 13.44.1 Finishing walls with water proofing cement paint of required shade - New work (Two or more coats applied @ 3.84 kg / 10 sqm)	102.00 sqm	68.92 sqm	7,030/-
9.8	CODE NO. 13.61.1 Painting with synthetic enamel paint of approved brand and manufacutre to give an even shade - Two or more coats on new work	2.00 sqm	86.78 sqm	174/-

#### 10.SANITARY INSTALLATION

10.1	CODE NO. 17.7.4 Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass pillar taps ,32 mm C.P.brass waste of standard pattern , including painting of fittings and brackets ,cutting and making good the walls wherever required - white vitreous china flat back wash basin size 550x400 mm with single 15mm C.P. brass pillar tap	2.00 each	2227.91 each	4,456/-
10.2	CODE NO. 17.13.2 Providing and fixing white vitreous china water closet squatting pan (Indian type) - Orissa pattern W.C.pan of size 580x440mm	4.00 each	1693.99 each	6,776/-
10.3	CODE NO. 17.28.1.1 Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete - semi rigid pipe - 32mm dia	2.00 each	49.00 each	98/-
10.4	CODE NO. 17.31 Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P.brass screws and washers complete	2.00 each	1296.31 each	2,593/-

#### 11.WATER SUPPLY

11.1	CODE NO. 18.7.1 Providing and fixing Chlorinated Polyvinnyl Chloride (CPVC) pipes, having thermal stability for hot &
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cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete - internal work - exposed on wall - 15mm nominal outer dia pipes

4.00 186.85 metre 747/-  
metre

11.2 CODE NO. 18.9.11

Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 20mm nominal outer dia pipes

30.00 152.76 metre 4,583/-  
metre

11.3 CODE NO. 18.9.12

Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 25mm nominal outer dia pipes

25.00 169.56 metre 4,239/-  
metre

11.4 CODE NO. 18.9.14

Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 40mm nominal outer dia pipes

30.00 264.65 metre 7,940/-  
metre

11.5 CODE NO. 18.9.31

Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement , trenching refilling & testing of joints complete (External work) - 20 mm nominal outer dia pipes

30.00 110.68 metre 3,320/-  
metre

11.6 CODE NO. 18.9.32

Providing and fixing ASTM pipes

including all ASTM plain & brass threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement, trenching refilling & testing of joints complete (External work) - 25 mm nominal outer dia pipes

40.00 127.48 metre 5,099/-  
metre

11.7 CODE NO. 18.9.34

Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement, trenching refilling & testing of joints complete (External work) - 40 mm nominal outer dia pipes

30.00 181.92 metre 5,458/-  
metre

11.8 CODE NO. 18.17.1

Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 25mm nominal bore

2.00 397.33 each 795/-  
each

11.9 CODE NO. 18.17.3

Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 40mm nominal bore

2.00 755.68 each 1,511/-  
each

11.10 CODE NO. 18.19.3.2

Providing and fixing gun metal non-return valve of approved quality (screwed end) - 40 mm nominal bore - Vertical

1.00 530.80 each 531/-  
each

11.11 CODE NO. 18.33.1

Constructing masonry chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I.surface box 100 mm top diameter, 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and in side plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design - with common burnt clay F.P.S (non modular) bricks of class designation 7.5

2.00 6638.04 each 13,276/-  
each

11.12	CODE NO. 18.46.3 Providing and fixing G.I.union in G.I.pipe including cutting and threading the pipe and making long screws etc.complete (New work) - 25mm nominal bore	1.00 each	244.08 each	244/-
11.13	CODE NO. 18.46.5 Providing and fixing G.I.union in G.I.pipe including cutting and threading the pipe and making long screws etc.complete (New work) - 40 mm nominal bore	1.00 each	353.18 each	353/-
11.14	CODE NO. 18.48A Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked , with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank - Circular Tank	500.00 litre	7.54 litre	3,770/-
11.15	CODE NO. 18.49.1 Providing and fixing C.P.brass bib cock of approved quality conforming to IS: 8931 - 15 mm nominal bore	4.00 each	528.71 each	2,115/-

## 12. DRAINAGE

12.1	CODE NO. 19.33A Constructing soak pit 1.20 x 1.20 x1.20 m filled with brick bats including 110 mm dia UPVC pipe (type B) 1.20 m long complete as per standard design	1.00	1938.39 1 soak pit	1,938/-
			1 soak pit	
12.2	CODE NO. 19.33.1 Providing and fixing on wall / column face unplasticed - PVC soil and waste pipes (type - B) conforming to IS : 13592- 1992 including jointing with seal ring conformation to IS : 5382 leaving 10mm gap for thermal expansion - single socked pipes -110mm diameter	60.00	300.93 metre	18,056/- metre
12.3	CODE NO. 19.33.1A Providing and fixing on wall face / column face unplasticised - PVC moulded fittings / accessories for unplasticisd - PVC soil and waste			



pipes conforming to IS : 14735  
-1999 including jointing with seal  
ring conforming to IS : 5382  
leaving 10mm gap for thermal  
expansion - Single tee with door -  
110 x110x110 mm

6.00 265.81 each 1,595/-  
each

12.4 CODE NO. 19.33.1C

Providing and fixing on wall face  
/ column face unplasticised - PVC  
mould fittings / accessories for  
unplasticised - PVC soil and waste  
pipes conforming to IS : 14735 -  
1999 including jointing with seal  
ring conforming to IS : 5382  
leaving 10mm gap for thermal  
expansion - bend 110 mm

6.00 149.69 each 898  
each

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8,15,913/-

13.1 Add GST at 12%

97,910/-

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9,13,823/-

14.1 Add electrification @ 12.50%

1,14,228/-

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10,28,051/-

15.1 Testing charges

10,000/-

16.1 Advertisement charges

10,000/-

17.1 Add Contingencies @ 3%

30,949/-

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Rs.10,79,000/-  
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(Rupees ten lakhs and seventy nine thousand only.)

NAME OF WORK : Toilet (6 Seater)

ABSTRACT OF ESTIMATE

Item.No	Description of Items	Qty	Rate	Unit	Amount
BUILDING WORK					
1.EARTH WORK					
1.1	CODE NO. 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m - all kinds of soil	74.00 cum	136.94	cum	10,134/-
1.2	CODE NO. 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5m	55.00 cum	121.42	cum	6,678/-
1.3	CODE NO. 2.27 Supplying and filling in plinth with river sand under floors, including watering, ramming consolidating and dressing complete	4.00 cum	1875.52	cum	7,502/-
1.4	CODE NO. 2.27A.1 Supplying and filling with gravel (excluding rock) in trenches, plinth, sides of foundations etc. In layers not exceeding 20 cm in depth consolidating each deposited layers by ramming and watering etc .complete including all lead and lift	8.00 cum	633.19	cum	5,066/-
2.CONCRETE WORK					
2.1	CODE NO. 4.1.4 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:2:4 (1 cement : 2				

	coarse sand : 4 graded stone aggregate 40mm nominal size)	2.00 cum	5162.82 cum	10,326/-
2.2	CODE NO. 4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	4.00 cum	4159.05 cum	16,636/-
2.3	CODE NO. 4.1.10 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	6.00 cum	3872.73 cum	23,236/-
2.4	CODE NO. 4.1.11A Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded brick aggregate 40mm nominal size)	4.00 cum	3513.66 cum	14,055/-

### 3.REINFORCED CONCRETE WORK

3.1	CODE NO. 5.1.2 Providing and laying in position specified grade of reinforced cement concrete , excluding the cost of centering , shuttering , finishing and reinforcement - All work upto plinth level 1:1.5:3 (1cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	2.00 cum	6136.44 cum	12,273/-
3.2	CODE NO. 5.2.2 Reinforced cement concrete work in walls (any thickness) , including attached pilasters, buttresses , plinth and sting courses , fillets , columns , pillars , piers , abutments , posts and struts etc. upto floor five level excluding cost of centering , shuttering , finishing and reinforcement - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	13.00 cum	6926.03 cum	90,038/-

3.3	CODE NO. 5.9.3 Centering and shuttering including strutting , propping etc and removal of form for - Suspended floors , roofs , landings , balconies and access platform	43.00 sqm	491.08 sqm	21,116/-
3.4	CODE NO. 5.9.5 Centering and shuttering including strutting , propping etc and removal of form for - Lintels , beams , plinth beams , girders , bressumers and catilevers	39.00 sqm	396.69 sqm	15,471/-
3.5	CODE NO. 5.16 Providing , hoisting and fixing upto floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand) , cost of required centering , shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)	0.50 cum	12256.79 cum	6,128/-
3.6	CODE NO. 5.18.1 Providing precast cement concrete jali 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning , fixing and finishing in cement mortar 1:3 ( 1 cement : 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits - 50mm thick	4.00 sqm	1098.66 sqm	4,395/-
3.7	CODE NO. 5.22.6 Steel reinforcement for R.C.C.work including straightening , cutting , bending , placing in position and binding all complete upto plinth level - Thermo -Mechanically treated bars (TISCO / VIZAG / IISCO / SAIL / JSW) Fe - 415 or more	1300.00 kg	79.77 kg	1,03,701/-

#### 4. BRICK WORK

4.1	CODE NO. 6.1.1 Brick work with common burnt clay F.P.S. (non modular ) bricks of
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class designation 7.5 in foundation and plinth in - cement mortar 1:4 (1 cement : 4 coarse sand)

16.00 5348.97 cum 85,584/-  
cum

4.2 CODE NO. 6.1.2

Brick work with common burnt clay F.P.S. (non modular ) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:6 (1 cement : 6 coarse sand)

14.00 5116.33 cum 71,629/-  
cum

4.3 CODE NO. 6.4.1

Brick work with common burnt clay F.P.S (non modular ) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:4 ( 1 cement : 4 coarse sand)

15.00 6184.12 cum 92,762/-  
cum

4.4 CODE NO. 6.13.2

Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level - cement mortar 1:4 (1 cement : 4 coarse sand)

27.00 728.00 sqm 19,656/-  
sqm

4.5 CODE NO. 6.15

Extra for providing and placing in position 2 nos 6mm dia M.S.bars at every third course of half brick masonry

25.00 80.45 sqm 2,011/-  
sqm

#### 5.WOOD WORK

5.1 CODE NO. 9.97.3

Providing and fixing aluminium tower bolts , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS :1868) , transparent or dyed to required colour or shade , with necessary screws etc. complete - 200 x10 mm

6.00 112.81 each 677/-  
each

5.2 CODE NO. 9.100.1

Providing and fixing aluminium handles , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade,with necessary screws etc, complete - 125 mm

6.00 61.13 each 367/-  
each

5.3	<p>CODE NO. 9.117.2</p> <p>Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance + 1mm ), with wall thickness 2.0 mm (+-0.2mm) , corners of the door frame to be jointed with galvanized brackets and stainless steel screws , joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S.tube of size 19 x 19 mm and 1mm (+-0.1mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification - Extruded section profile size 42 x 50 mm</p>	30.00 metre	215.19 metre	6,456/-
5.4	<p>CODE NO. 9.118.1</p> <p>Providing and fixing to existing door frames - 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59 x 24 mm and wall thickness 2 mm (+- 0.2 mm) with inbuilt edging on both sides . The styles and rails mitred and joint at the corners by means of M.S. galvanised / plastic brackets of size 75 x 220 mm having wall thickness 1.0 mm and stainless steel screws . The styles of the shutter reinforced by inserting galvanised M.S.tube of size 20x20 mm and 1mm (+- 0.1mm) wall thickness . The lock rail made up of 'H' section , a uPVC hollow section of size 100 x 24 mm and 2 mm (+-0.2 mm) wall thickness , fixed to the shutter styles by means of plastic / galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multichambered single panel of size not less than 620 mm, having overall thickness of 20 mm and 1 mm (+_ 0.1mm) wall thickness . They panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S.rod and fastened with nuts and washers , complete as per manufacturer's specification (For W.C. and bathroom door shutter)</p>	10.00 sqm	1867.06 sqm	18,671/-
5.5	<p>CODE NO. 9.165.1A</p> <p>Providing and fixing of 65mm Godrej Navatal lock of 6 levers etc complete</p>	1.00 each	432.88 each	433/-

## 6. STEEL WORK

6.1	<p>CODE NO. 10.25.2</p> <p>Steel work welded in built up sections / framed work , including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required - in gratings, frames, guard bar, ladder, railings, brackets, gates and similar works</p>	115.00	100.08 kg	11,509/-
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## 7. FLOORING

7.1	<p>CODE NO. 11.36A</p> <p>Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) , of approved make (Jhonson / Asian / Somany / Nitco) in all colours , shades of size 200 x 300 mm as approved in skirting , risers of steps and dados, over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand ) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement with pigment of matching shade complete - size 200x300 mm</p>	76.00	848.13 sqm	64,458/-
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7.2	<p>CODE NO. 11.38.1</p> <p>Providing and laying ceramic glazed floor tiles of size 300 x 300 mm (thickness to be specified by the manufacturer) , of 1st quality conforming to IS :15622, of approved make (Nitco / Kajaria ) in all colours, shades, except white , ivory, grey, fume red brown, laid on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), including pointing the joints with white cement and matching pigments etc., complete</p>	21.00	1011.27 sqm	21,237/-
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## 8. ROOFING

8.1	<p>CODE NO. 12.15.1</p> <p>Painting top of roofs with bitumen of approved quality @ 17kg per 10 sq.m impregnated with a coat of coarse sand at 60cudm per 10 sq.m including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete - with residual type petroleum bitumen of grade VG-10</p>	25.00	122.56 sqm	3,064/-
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8.2	CODE NO. 12.20 Providing and laying pressed clay tiles (as per approved pattern 18mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound , laid over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete	30.00 sqm	555.87 sqm	16,676/-
8.3	CODE NO. 12.20L Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with Parapet wall complete	3.00 cum	5437.14 cum	16,311/-
8.4	CODE NO. 12.22 Making khurras 45x45cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20mm nominal size) over P.V.C. sheet 1m xlm x 400 micron , finished with 12 mm cement plaster 1:3 (1cement : 3 coarse sand) and a coat of neat cement , rounding the edges, making and finishing the outlet complete	2.00 each	244.20 each	488/-
8.5	CODE NO. 12.41.2 Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes - 110 mm diameter	8.00 metre	259.53 metre	2,076/-
8.6	CODE NO. 12.42.5.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - bend 87.5 degree - 110 mm bend	2.00 each	159.74 each	319/-



8.7	CODE NO. 12.42.6.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - shoe (plain) - 110mm shoe	2.00 each	316.94 each	634/-
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#### 9.FINISHING

9.1	CODE NO. 13.8.3 12 mm cement plaster of mix 1:5 (1 cement : 5 fine sand)	86.00 sqm	185.13 sqm	15,921/-
9.2	CODE NO. 13.10 15 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or halfbrick wall	43.00 sqm	287.42 sqm	12,359/-
9.3	CODE NO. 13.15 20mm cement plaster 1:2 (1 cement : 2 stone dust)	48.00 sqm	290.22 sqm	13,931/-
9.4	CODE NO. 13.17 6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of lime wash on top of walls when dry for bearing of R.C.C. slabs and beams	67.00 sqm	207.47 sqm	13,900/-
9.5	CODE NO. 13.21 Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers	15.00 per bag	51.78 per bag	777/-
9.6	CODE NO. 13.37.1 White washing with lime to give an even shade - new work (three or more coats)	25.00 sqm	18.25 sqm	456/-
9.7	CODE NO. 13.44.1 Finishing walls with water proofing cement paint of required shade - New work (Two or more coats applied @ 3.84 kg / 10 sqm)	129.00 sqm	68.92 sqm	8,891/-

9.8	CODE NO. 13.61.1 Painting with synthetic enamel paint of approved brand and manufacture to give an even shade - Two or more coats on new work	3.00 sqm	86.78 sqm	260/-
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10. SANITARY INSTALLATION

10.1	CODE NO. 17.7.4 Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required - white vitreous china flat back wash basin size 550x400 mm with single 15mm C.P. brass pillar tap	2.00 each	2227.91 each	4,456/-
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10.2	CODE NO. 17.13.2 Providing and fixing white vitreous china water closet squatting pan (Indian type) - Orissa pattern W.C. pan of size 580x440mm	6.00 each	1693.99 each	10,164/-
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10.3	CODE NO. 17.28.1.1 Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete - semi rigid pipe - 32mm dia	2.00 each	49.00 each	98/-
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10.4	CODE NO. 17.31 Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete	2.00 each	1296.31 each	2,593/-
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11. WATER SUPPLY

11.1	CODE NO. 18.7.1 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of
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	joints complete - internal work - exposed on wall - 15mm nominal outer dia pipes	6.00	186.85 metre	1,121/- metre
11.2	CODE NO. 18.9.11 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 20mm nominal outer dia pipes	30.00	152.76 metre	4,583/- metre
11.3	CODE NO. 18.9.12 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 25mm nominal outer dia pipes	25.00	169.56 metre	4,239/- metre
11.4	CODE NO. 18.9.14 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 40mm nominal outer dia pipes	30.00	264.65 metre	7,940/- metre
11.5	CODE NO. 18.9.31 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement , trenching refilling & testing of joints complete (External work) - 20 mm nominal outer dia pipes	30.00	110.68 metre	3,320/- metre
11.6	CODE NO. 18.9.32 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement , trenching refilling & testing of			

	joints complete (External work) - 25 mm nominal outer dia pipes	40.00 metre	127.48 metre	5,099
11.7	CODE NO. 18.9.34 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement, trenching refilling & testing of joints complete (External work) - 40 mm nominal outer dia pipes	30.00 metre	181.92 metre	5,458/-
11.8	CODE NO. 18.17.1 Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 25mm nominal bore	2.00 each	397.33 each	795/-
11.9	CODE NO. 18.17.3 Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 40mm nominal bore	2.00 each	755.68 each	1,511/-
11.10	CODE NO. 18.19.3.2 Providing and fixing gun metal non-return valve of approved quality (screwed end) - 40 mm nominal bore - Vertical	1.00 each	530.80 each	531/-
11.11	CODE NO. 18.33.1 Constructing masonry chamber 60x60x75 cm inside, in brick work in cement mortar 1.4 (1 cement : 4 coarse sand) for sluice valve, with C.I.surface box 100 mm top diameter, 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and in side plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design - with common burnt clay F.P.S (non modular) bricks of class designation 7.5	2.00 each	6638.04 each	13,276/-
11.12	CODE NO. 18.46.3 Providing and fixing G.I.union in G.I.pipe including cutting and			

threading the pipe and making long screws etc.complete (New work) - 25mm nominal bore

1.00 244.08 each 244/-  
each

11.13 CODE NO. 18.46.5

Providing and fixing G.I.union in G.I.pipe including cutting and threading the pipe and making long screws etc.complete (New work) - 40 mm nominal bore

1.00 353.18 each 353/-  
each

11.14 CODE NO. 18.48A

Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked , with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank - Circular Tank

500.00 7.54 litre 3,770/-  
litre

11.15 CODE NO. 18.49.1

Providing and fixing C.P.brass bib cock of approved quality conforming to IS: 8931 - 15 mm nominal bore

6.00 528.71 each 3,172/-  
each

## 12.DRAINAGE

12.1 CODE NO. 19.33

Constructing soak pit 1.20 x 1.20 x 1.20 m filled with brickbats including S.W.drain pipe 100 mm diameter and 1.20 m long complete as per standard design

1.00 1789.50 each 1,790/-  
each

12.2 CODE NO. 19.33.1

Providing and fixing on wall / column face unplasticed - PVC soil and waste pipes (type - B) conforming to IS : 13592- 1992 including jointing with seal ring conformation to IS : 5382 leaving 10mm gap for thermal expansion - single socked pipes -110mm diametre

60.00 300.93 metre 18,056/-  
metre

12.3 CODE NO. 19.33.1A

Providing and fixing on wall face / column face unplasticised - PVC moulded fittings / accessories for unplasticised - PVC soil and waste pipes conforming to IS : 14735 -1999 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal

expansion - Single tee with door -  
110 x110x110 mm

10.00 265.81 each 2,658/-  
Each

12.4 CODE NO. 19.33.1C  
Providing and fixing on wall face  
/ column face unplasticised - PVC  
mould fittings / accessories for  
unplasticised - PVC soil and waste  
pipes conforming to IS : 14735 -  
1999 including jointing with seal  
ring conforming to IS : 5382  
leaving 10mm gap for thermal  
expansion - bend 110 mm

10.00 149.69 each 1,497/-  
each

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9,44,992/-

13.1 Add GST at 12%

1,13,399/-

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10,58,390/-

14.1 Add electrification @ 12.50%

1,32,299/-

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11,90,689/-

15.1 Testing charges

10,000/-

16.1 Advertisement charges

10,000/-

17.1 Add Contingencies @ 3%

35,311/-

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Rs.12,46,000/-  
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(Rupees twelve lakhs and forty six thousand only.)

**NAME OF WORK : Toilet (10 Seater)**

**ABSTRACT OF ESTIMATE**

Item.No	Description of Items	Qty	Rate	Unit	Amount
BUILDING WORK					
1.EARTH WORK					
1.1	CODE NO. 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m - all kinds of soil	101.00 cum	136.94	cum	13,831/-
1.2	CODE NO. 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5m	75.00 cum	121.42	cum	9,107
1.3	CODE NO. 2.27 Supplying and filling in plinth with river sand under floors, including watering, ramming consolidating and dressing complete	5.00 cum	1875.52	cum	9,378/-
1.4	CODE NO. 2.27A.1 Supplying and filling with gravel (excluding rock) in trenches, plinth, sides of foundations etc. In layers not exceeding 20 cm in depth consolidating each deposited layers by ramming and watering etc. complete including all lead and lift	11.00 cum	633.19	cum	6,965/-
2.CONCRETE WORK					
2.1	CODE NO. 4.1.4 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto				

	plith level - 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size)	2.00 cum	5162.82 cum	10,326/-
2.2	CODE NO. 4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	6.00 cum	4159.05 cum	24,954/-
2.3	CODE NO. 4.1.10 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	7.00 cum	3872.73 cum	27,109/-
2.4	CODE NO. 4.1.11A Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded brick aggregate 40mm nominal size)	7.00 cum	3513.66 cum	24,596/-

### 3. REINFORCED CONCRETE WORK

3.1	CODE NO. 5.1.2 Providing and laying in position specified grade of reinforced cement concrete , excluding the cost of centering , shuttering , finishing and reinforcement - All work upto plinth level 1:1.5:3 (1cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	2.00 cum	6136.44 cum	12,273/-
3.2	CODE NO. 5.2.2 Reinforced cement concrete work in walls (any thickness) , including attached pilasters, buttresses , plinth and sting courses , fillets , columns , pillars , piers , abutments , posts and struts etc. upto floor five level excluding cost of centering , shuttering , finishing and reinforcement - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	17.00 cum	6926.03 cum	1,17,743/-



3.3	CODE NO. 5.9.3 Centering and shuttering including strutting , propping etc and removal of form for - Suspended floors , roofs , landings , balconies and access platform	56.00 sqm	491.08 sqm	27,500/-
3.4	CODE NO. 5.9.5 Centering and shuttering including strutting , propping etc and removal of form for - Lintels , beams , plinth beams , girders , bressumers and catilevers	50.00 sqm	396.69 sqm	19,835/-
3.5	CODE NO. 5.16 Providing , hoisting and fixing upto floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand) , cost of required centering , shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)	1.00 cum	12256.79 cum	12,257/-
3.6	CODE NO. 5.18.1 Providing precast cement concrete jali 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning , fixing and finishing in cement mortar 1:3 ( 1 cement : 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits - 50mm thick	6.00 sqm	1098.66 sqm	6,592/-
3.7	CODE NO. 5.22.6 Steel reinforcement for R.C.C.work including straightening , cutting , bending , placing in position and binding all complete upto plinth level - Thermo-Mechanically treated bars (TISCO / VIZAG / IISCO / SAIL / JSW) Fe - 415 or more	1600.00 kg	79.77 kg	1,27,632/-

#### 4. BRICK WORK

4.1	CODE NO. 6.1.1 Brick work with common burnt clay F.P.S. (non modular ) bricks of class designation 7.5 in
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foundation and plinth in - cement mortar 1:4 (1 cement : 4 coarse sand)

20.00 5348.97 cum 1,06,979/-  
cum

4.2 CODE NO. 6.1.2

Brick work with common burnt clay F.P.S. (non modular ) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:6 (1 cement : 6 coarse sand)

18.00 5116.33 cum 92,094/-  
cum

4.3 CODE NO. 6.4.1

Brick work with common burnt clay F.P.S (non modular ) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:4 ( 1 cement : 4 coarse sand)

19.00 6184.12 cum 1,17,498/-  
cum

4.4 CODE NO. 6.13.2

Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level - cement mortar 1:4 (1 cement : 4 coarse sand)

44.00 728.00 sqm 32,032/-  
sqm

4.5 CODE NO. 6.15

Extra for providing and placing in position 2 nos 6mm dia M.S.bars at every third course of half brick masonry

44.00 80.45 sqm 3,540/-  
sqm

#### 5.WOOD WORK

5.1 CODE NO. 9.97.3

Providing and fixing aluminium tower bolts , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS :1868) , transparent or dyed to required colour or shade , with necessary screws etc. complete - 200 x10 mm

10.00 112.81 each 1,128/-  
each

5.2 CODE NO. 9.100.1

Providing and fixing aluminium handles , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade,with necessary screws etc, complete - 125 mm

10.00 61.13 each 611/-  
each

5.3	<p>CODE NO. 9.117.2</p> <p>Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance +<sub>1</sub> mm ), with wall thickness 2.0 mm (+-0.2mm) , corners of the door frame to be jointed with galvanized brackets and stainless steel screws , joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S.tube of size 19 x 19 mm and 1mm (+-0.1mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification - Extruded section profile size 42 x 50 mm</p>	50.00	215.19 metre	10,760/- metre
5.4	<p>CODE NO. 9.118.1</p> <p>Providing and fixing to existing door frames - 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59 x 24 mm and wall thickness 2 mm (+- 0.2 mm) with inbuilt edging on both sides . The styles and rails mitred and joint at the corners by means of M.S. galvanised / plastic brackets of size 75 x 220 mm having wall thickness 1.0 mm and stainless steel screws . The styles of the shutter reinforced by inserting galvanised M.S.tube of size 20x20 mm and 1mm (+- 0.1mm) wall thickness . The lock rail made up of 'H' section , a uPVC hollow section of size 100 x 24 mm and 2 mm (+-0.2 mm) wall thickness , fixed to the shutter styles by means of plastic / galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multichambered single panel of size not less than 620 mm, having overall thickness of 20 mm and 1 mm (+<sub>0</sub> 0.1mm) wall thickness . They panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S.rod and fastened with nuts and washers , complete as per manufacturer's specification (For W.C. and bathroom door shutter)</p>	16.00	1867.06 sqm	29,873/- sqm
5.5	<p>CODE NO. 9.165.1A</p> <p>Providing and fixing of 65mm Godrej Navatal lock of 6 levers etc complete</p>	1.00	432.88 each	433/- each

## 6. STEEL WORK

6.1	<p>CODE NO. 10.25.1            Steel work welded in built up sections / framed work , including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required - in stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required all complete</p>	115.00 kg	73.37 kg	8,438/-
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## 7. FLOORING

7.1	<p>CODE NO. 11.36A            Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) , of approved make (Jhonson / Asian / Somany / Nitco) in all colours , shades of size 200 x 300 mm as approved in skirting , risers of steps and dados, over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand ) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement with pigment of matching shade complete - size 200x300 mm</p>	144.00 sqm	848.13 sqm	1,22,131/-
7.2	<p>CODE NO. 11.38.1            Providing and laying ceramic glazed floor tiles of size 300 x 300 mm (thickness to be specified by the manufacturer) , of 1st quality conforming to IS :15622, of approved make (Nitco / Kajaria ) in all colours, shades, except white , ivory, grey, fume red brown, laid on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), including pointing the joints with white cement and matching pigments etc., complete</p>	31.00 sqm	1011.27 sqm	31,349/-

## 8. ROOFING

8.1	<p>CODE NO. 12.15.1            Painting top of roofs with bitumen of approved quality @ 17kg per 10 sq.m impregnated with a coat of coarse sand at 60cudm per 10 sq.m including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete -</p>
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with residual type petroleum bitumen of grade VG-10

36.00 122.56 sqm 4,412/-  
sqm

8.2 CODE NO. 12.20

Providing and laying pressed clay tiles (as per approved pattern 18mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete

43.00 555.87 sqm 23,902/-  
sqm

8.3 CODE NO. 12.20L

Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with Parapet wall complete

5.00 5437.14 cum 27,186/-  
cum

8.4 CODE NO. 12.22

Making khurras 45x45cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20mm nominal size) over P.V.C. sheet 1m x 1m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges, making and finishing the outlet complete

2.00 244.20 each 488/-  
each

8.5 CODE NO. 12.41.2

Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes - 110 mm diameter

8.00 259.53 metre 2,076/-  
metre

8.6 CODE NO. 12.42.5.2

Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382,

leaving 10mm gap for thermal expansion - bend 87.5 degree - 110 mm bend

2.00 159.74 each 319/-  
each

8.7 CODE NO. 12.42.6.2  
Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - shoe (plain) - 110mm shoe

2.00 316.94 each 634/-  
each

#### 9. FINISHING

9.1 CODE NO. 13.8.3  
12 mm cement plaster of mix 1:5 (1 cement : 5 fine sand)

110.00 185.13 sqm 20,364/-  
sqm

9.2 CODE NO. 13.10  
15 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or halfbrick wall

45.00 287.42 sqm 12,934/-  
sqm

9.3 CODE NO. 13.15  
20mm cement plaster 1:2 (1 cement : 2 stone dust)

65.00 290.22 sqm 18,864/-  
sqm

9.4 CODE NO. 13.17  
6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of lime wash on top of walls when dry for bearing of R.C.C. slabs and beams

91.00 207.47 sqm 18,880/-  
sqm

9.5 CODE NO. 13.21  
Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers

20.00 51.78 per bag 1,036/-  
per bag

9.6 CODE NO. 13.37.1  
White washing with lime to give an even shade - new work (three or more coats)

36.00 18.25 sqm 657/-  
sqm

9.7 CODE NO. 13.44.1  
Finishing walls with water proofing cement paint of required

shade - New work (Two or more coats applied @ 3.84 kg / 10 sqm)	155.00 sqm	68.92 sqm	10,683/-
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9.8 CODE NO. 13.61.1 Painting with synthetic enamel paint of approved brand and manufacutre to give an even shade - Two or more coats on new work	3.00 sqm	86.78 sqm	260/-
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#### 10.SANITARY INSTALLATION

10.1 CODE NO. 17.7.4 Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass pillar taps ,32 mm C.P.brass waste of standard pattern , including painting of fittings and brackets ,cutting and making good the walls wherever required - white vitreous china flat back wash basin size 550x400 mm with single 15mm C.P. brass pillar tap	2.00 each	2227.91 each	4,456/-
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10.2 CODE NO. 17.13.2 Providing and fixing white vitreous china water closet squatting pan (Indian type) - Orissa pattern W.C.pan of size 580x440mm	10.00 each	1693.99 each	16,940/-
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10.3 CODE NO. 17.28.1.1 Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete - semi rigid pipe - 32mm dia	2.00 each	49.00 each	98/-
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10.4 CODE NO. 17.31 Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P.brass screws and washers complete	2.00 each	1296.31 each	2,593/-
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#### 11.WATER SUPPLY

11.1 CODE NO. 18.7.1 Providing and fixing Chlorinated Polyvinnyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00m spacing.This			
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	includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete - internal work - exposed on wall - 15mm nominal outer dia pipes	10.00 metre	186.85 metre	1,869/-
11.2	CODE NO. 18.9.11 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 20mm nominal outer dia pipes	30.00 metre	152.76 metre	4,583/-
11.3	CODE NO. 18.9.12 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 25mm nominal outer dia pipes	25.00 metre	169.56 metre	4,239/-
11.4	CODE NO. 18.9.14 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 40mm nominal outer dia pipes	30.00 metre	264.65 metre	7,940/-
11.5	CODE NO. 18.9.31 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement , trenching refilling & testing of joints complete (External work) - 20 mm nominal outer dia pipes	30.00 metre	110.68 metre	3,320/-
11.6	CODE NO. 18.9.32 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement ,			



trenching refilling & testing of joints complete (External work) - 25 mm nominal outer dia pipes

40.00 127.48 metre 5,099/-  
metre

11.7 CODE NO. 18.9.34

Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings this included jointing of pipes & fittings with one step ASTM solvent cement, trenching refilling & testing of joints complete (External work) - 40 mm nominal outer dia pipes

30.00 181.92 metre 5,458/-  
metre

11.8 CODE NO. 18.17.1

Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 25mm nominal bore

2.00 397.33 each 795/-  
each

11.9 CODE NO. 18.17.3

Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 40mm nominal bore

2.00 755.68 each 1,511/-  
each

11.10 CODE NO. 18.19.3.2

Providing and fixing gun metal non-return valve of approved quality (screwed end) - 40 mm nominal bore - Vertical

1.00 530.80 each 531/-  
each

11.11 CODE NO. 18.33.1

Constructing masonry chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I.surface box 100 mm top diameter, 160mm bottom diameter and 180mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and in side plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design - with common burnt clay F.P.S (non modular) bricks of class designation 7.5

2.00 6638.04 each 13,276/-  
each

11.12	CODE NO. 18.46.3 Providing and fixing G.I.union in G.I.pipe including cutting and threading the pipe and making long screws etc.complete (New work) - 25mm nominal bore	1.00 each	244.08 each	244/-
11.13	CODE NO. 18.46.5 Providing and fixing G.I.union in G.I.pipe including cutting and threading the pipe and making long screws etc.complete (New work) - 40 mm nominal bore	1.00 each	353.18 each	353/-
11.14	CODE NO. 18.48A Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked , with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank - Circular Tank	1000.00 litre	7.54 litre	7,540/-
11.15	CODE NO. 18.49.1 Providing and fixing C.P.brass bib cock of approved quality conforming to IS: 8931 - 15 mm nominal bore	10.00 each	528.71 each	5,287/-

## 12.DRAINAGE

12.1	CODE NO. 19.33 Constructing soak pit 1.20 x 1.20 x 1.20 m filled with brickbats including S.W.drain pipe 100 mm diameter and 1.20 m long complete as per standard design	1.00 each	1789.50 each	1,790/-
12.2	CODE NO. 19.33.1 Providing and fixing on wall / column face unplasticed - PVC soil and waste pipes (type - B) conforming to IS : 13592- 1992 including jointing with seal ring conformation to IS : 5382 leaving 10mm gap for thermal expansion - single socked pipes -110mm diameter	60.00 metre	300.93 metre	18,056/-
12.3	CODE NO. 19.33.1A Providing and fixing on wall face / column face unplasticised - PVC moulded fittings / accessories for unplasticised - PVC soil and waste pipes conforming to IS : 14735 -1999 including jointing with seal ring conforming to IS : 5382			

leaving 10mm gap for thermal expansion - Single tee with door - 110 x110x110 mm	10.00 each	265.81 each	2,658/-
12.4 CODE NO. 19.33.1C Providing and fixing on wall face / column face unplasticised - PVC mould fittings / accessories for unplasticised - PVC soil and waste pipes conforming to IS : 14735 - 1999 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - bend 110 mm	10.00 each	149.69 each	1,497/-
			----- 12,59,792/-
13.1 Add GST at 12%			1,51,175/- ----- 14,10,967/-
14.1 Add electrification @ 12.50%			1,76,371/- ----- 15,87,338/-
15.1 Testing charges			10,000/-
16.1 Advertisement charges			10,000/-
17.1 Add Contingencies @ 3%			47,662/- ----- Rs.16,55,000/- -----

(Rupees sixteen lakhs and fifty five thousand only.)

NAME OF WORK : Drinking water

ABSTRACT OF ESTIMATE

Item.No	Description of Items	Qty	Rate	Unit	Amount
BUILDING WORK					
1.WATER SUPPLY					
1.1	CODE NO. 18.9.11 Providing and fixing ASTM pipes including all ASTM plain& brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 20mm nominal outer dia pipes	5.00	152.76	metre	764/-
1.2	CODE NO. 18.9.12 Providing and fixing ASTM pipes including all ASTM plain& brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 25mm nominal outer dia pipes	10.00	169.56	metre	1,696/-
1.3	CODE NO. 18.9.14 Providing and fixing ASTM pipes including all ASTM plain& brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall ) - 40mm nominal outer dia pipes	25.00	264.65	metre	6,616/-
1.4	CODE NO. 18.17.3 Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 40mm nominal bore	2.00	755.68	each	1,511/-
1.5	CODE NO. 18.48A Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701				

marked , with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank - Circular Tank

1000.00 7.54 litre 7,540/-  
litre

1.6 CODE NO. 18.49.1

Providing and fixing C.P.brass bib cock of approved quality conforming to IS: 8931 - 15 mm nominal bore

4.00 528.71 each 2,115/-  
each

2.1 R. O. Unit L.S.

1,50,000/-

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1,70,242/-

3.1 Add GST at 12%

20,429/-

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1,90,671/-

4.1 Add electrification @ 12.50%

23,834/-

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2,14,505/-

5.1 Testing charges

10,000/-

6.1 Advertisement charges

10,000/-

7.1 Add Contingencies @ 3%

7,495/-

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Rs.2,42,000/-  
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(Rupees two lakhs and forty two thousand only.)

**NAME OF WORK : Boundary Wall**

**ABSTRACT OF ESTIMATE**

Item.No	Description of Items	Qty	Rate	Unit	Amount
<b>BUILDING WORK</b>					
<b>1.EARTH WORK</b>					
1.1	CODE NO. 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m - all kinds of soil	34.85 cum	136.94	cum	4,772/-
1.2	CODE NO. 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5m	21.11 cum	121.42	cum	2,563/-
1.3	CODE NO. 2.26.1 Extra for every additional lift of 1.5m or part there of in excavation / banking excavated or stacked materials - all kinds of soil	3.17 cum	63.35	cum	201/-
<b>2.CONCRETE WORK</b>					
2.1	CODE NO. 4.1.10 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plinth level - 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	4.14 cum	3872.73	cum	16,033/-
<b>3.REINFORCED CONCRETE WORK</b>					
3.1	CODE NO. 5.1.2 Providing and laying in position				

specified grade of reinforced cement concrete , excluding the cost of centering , shuttering , finishing and reinforcement - All work upto plinth level 1:1.5:3 (1cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)

10.29 6136.44 cum 63,144/-  
cum

3.2 CODE NO. 5.2.2

Reinforced cement concrete work in walls (any thickness) , including attached pilasters, buttresses , plinth and sting courses , fillets , columns , pillars , piers , abutments , posts and struts etc. upto floor five level excluding cost of centering , shuttering , finishing and reinforcement - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)

4.93 6926.03 cum 34,145/-  
cum

3.3 CODE NO. 5.9.1

Centering and shuttering including strutting , propping etc and removal of form for - foundations, footings, bases of columns etc for mass concrete

56.46 246.50 sqm 13,917/-  
sqm

3.4 CODE NO. 5.9.5

Centering and shuttering including strutting , propping etc and removal of form for - Lintels , beams , plinth beams , girders , bressumers and catilevers

8.75 396.69 sqm 3,471/-  
sqm

3.5 CODE NO. 5.9.6

Centering and shuttering including strutting , propping etc and removal of form for - Columns , Pillars , Piers , Abutments , Posts and Struts

46.92 580.53 sqm 27,238/-  
sqm

3.6 CODE NO. 5.22.6

Steel reinforcement for R.C.C.work including straightening , cutting , bending , placing in position and binding all complete upto plinth level - Thermo-Mechanically treated bars (TISCO / VIZAG / IISCO / SAIL / JSW) Fe - 415 or more

1795.19 79.77 kg 1,43,202/-  
kg

4. BRICK WORK

4.1	CODE NO. 6.32.2 Brick work with clay flyash F.P.S. (non modular ) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in - cement mortar 1:6 (1 cement : 6 coarse sand)	15.24 cum	5351.99 cum	81,564/-
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5. FINISHING

5.1	CODE NO. 13.1.1 12mm cement plaster of mix -1:4 ( 1 cement : 4 fine sand)	80.52 Sqm	193.00 sqm	15,540/-
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5.2	CODE NO. 13.2.1 15mm cement plaster on the rough side of single or half brick wall of mix - 1:4 (1cement : 4 fine sand)	59.18 sqm	225.02 sqm	13,317/-
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5.3	CODE NO. 13.17 6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of lime wash on top of walls when dry for bearing of R.C.C. slabs and beams	8.28 Sqm	207.47 sqm	1,718/-
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5.4	CODE NO. 13.46.1 Finishing walls with acrylic smooth exterior paint of required shade - New work (two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg / 10 sqm	147.98 sqm	110.51 sqm	16,353/-
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4,37,178/-

6.1	Add GST at 12%			52,461/-
				----- 4,89,639/-

7.1	Add electrification @ 12.50%			61,205/-
				----- 5,50,844/-



8.1 Testing charges 10,000/-

9.1 Advertisement charges 10,000/-

10.1 Add Contingencies @ 3% 15,156/-

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Rs.5,86,000/-  
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(Rupees five lakhs and eighty six thousand only.)

**Boundary wall Rate per Running Meter**

**Rs.5,86,000 / 33.55 Rmt., = 17,466/-**