

Annexure-A

Detailed Estimate for Reconstruction of Toilet Block in Boys Hostel No. 2 (01 no Toilet Block) (Athletics Ground Side)

Sr. No.	Description of Item	Qty	Unit	Ref to CSR	Total Rate	Amount
1	Desmentalling of tile terracing	1.30	Cum	8.5b	422.70	549.50
2	Earth work on roof single storey rate taken for Removing malba from roof	7.68	Cum	6.9	155.09	1191.08
3	Disposal of earth upto 3 kms including loading unloading	7.68	Cum	4.1+5.2	178.85	1373.57
4	Dismantalling RCC roofing	7.68	Cum	8.41	818.16	6283.47
5	Dismantalling brick work in cement including parapit and taking foundations also average ht, taking into consideration deduction on account of doors and windows etc	89.61	Cum	8.5b	422.70	37877.70
6	Removing doors	30.00	Nos	8.26 a	140.39	4211.55
7	Removing CW	12.00	Nos	8.26 c	44.66	535.92
8	Dismantalling flooring including concrete base	102.47	Sqm	8.17	67.52	6918.26
9	Removal of GI water pipes, Electrical wiring and electrical fitting , to be adjusted against expected credit of material of the waste pipes if any, useable material such as tubes chokes bulb etc may be done as per actual at site of work.					
10	Disposal of malba upto 3 kms including loading unloading	63.14	Cum	4.1+5.2	178.85	11292.59
11	Credit of brick bats from roof tiles and masonry 50%	45.46	Cum	3.12d	-461.25	-20968.43
12	Credit of steel recovered from RCC @60kgs per cum	4.61	Qtls	NS	-1500.00	-6915.00
13	Excavation of earth in all kinds of soils	113.67	Cum	6.6	119.30	13561.29
14	Providing & Laying P.C.C. (1:4:8) in foundation	9.25	Cum	10.10b	3107.25	28742.08
15	Providing & Laying R.C.C. M-25 in foundation and Plinth with volumetric concrete mixture (excluding steel reinforcement and shuttering) needle vibrator complete in all respects					
	Total	23.31	Cum	10.16	4733.24	110331.85
16	Providing & Laying R.C.C.M-25 in Rectangular Column with volumetric concrete mixture (excluding steel reinforcement and shuttering) needle vibrator complete in all respects in F&P					
	Total	2.92	Cum	10.22	4733.24	13821.06
17	Providing & Laying R.C.C.M-25 in Plinth Beam with volumetric concrete mixture (excluding steel reinforcement Centering and shuttering) needle vibrator complete in all respects in F&P					
	Total	7.28	Cum	10.22	4733.24	34457.99
18	Centring & Shuttering for beams, side of Foundation	76.96	Sqm	9.1	158.31	12183.54
19	B.B 1st Class in CM(1:6) in Foundation & Plinth					
	Net Quantity	11.11	cum	11.3	3482.13	38686.44
20	Providing & Laying 40 mm thick D.P.C. of C.C. (1:2:4) with 2 coats of bitumens @ 1.65 Kg Per Sqm.					
	Net Quantity	12.66	Sqm	10.29	280.99	3557.33

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Sr. No.	Description of Item	Qty	Unit	Ref to CSR	Total Rate	Amount
21	20 mm thick cement plaster in damp proof course 1:3 with two coats of bitumen at 1.65Kg. Per Sqm laid hot and sanded (a) Vertical					
	Net Quantity	30.76	Sqm	15.50a	202.87	6240.18
22	R.C.C. M-25 in Superstructure in Columns with Volumetric mixture & needle vibrator but excluding steel reinforcement and shuttering					
		6.10	Cum	10.22	5138.54	31345.10
23	R.C.C. M-25 in slab and beams with volumetric mixture & needle vibrator but excluding steel reinforcement, Centring and Shuttering					
		10.69	Cum	10.22	5138.54	54930.99
	F.F.	10.69	Cum	10.22	5179.34	55367.15
	S.F	10.69	Cum	10.22	5220.14	55803.30
	duct cover slab	1.06	Cum	10.22	5260.94	5576.60
	GF	7.73	Cum	10.22	5138.54	39720.92
	FF	7.73	Cum	10.22	5179.34	40036.30
	SF	7.73	Cum	10.22	5220.14	40351.68
	GF	2.09	Cum	10.22	5138.54	10739.55
	FF	2.09	Cum	10.22	5179.34	10824.82
	SF	2.09	Cum	10.22	5220.14	10910.09
24	Centring & Shuttering for Slabs and Beams					
	SLAB GF	83.67	Sqm	9.8	204.01	17069.68
	SLAB FF	83.67	Sqm	9.8	206.71	17295.59
	SLAB SF	83.67	Sqm	9.8	209.41	17521.50
	BEAMS & LINTELS GF	132.89	Sqm	9.6	188.73	25080.33
	BEAMS & LINTELS FF	132.89	Sqm	9.6	191.43	25439.13
	BEAMS & LINTELS SF	132.89	Sqm	9.6	194.13	25797.94
25	Centring & Shuttering for columns					
	G.F.	71.44	Sqm	9.4	242.01	17289.52
	F.F.	71.44	Sqm	9.4	244.71	17482.40
	S.F.	71.44	Sqm	9.4	247.41	17675.29
26	Providing & Laying Cold Twisted deformed bars Fe-500 including Bending & Placing Complete in all respects @ 1.5 Qtl Per Cum of Concrete					
		171.66	Qtl	18.18	5098.65	875234.33
27	B.B. first class in cement mortar (1:6) in S.S.					
	Net Total	26.71	cum	11.4	3763.33	100518.59
	F.F.	26.71	cum	11.4	3847.82	102775.17
	S.F.	26.71	cum	11.4	3932.30	105031.75
28	B.B. first class in cement mortar (1:4) 115mm thick with hoop iron reinforcement in S.S.					
	Net Total	86.67	Sqm	11.35	467.55	40522.44
	F.F.	86.67	Sqm	11.35	467.55	40522.44
	S.F.	86.67	Sqm	11.35	467.55	40522.44
	Parapits	32.78	Sqm	11.35	467.55	15326.24

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Sr. No.	Description of Item	Qty	Unit	Ref to CSR	Total Rate	Amount
29	Supplying Pressed steel sheet frames (Chowkat) consisting of 18gauge (1.25 mm thick steel sheet of the specified section, including iron hugs (hold fast) iron hugs conforming to PWD specification including bolts for fixing stops lock notch provision for receiveing tower bolts and finished with 1 primer coat approved quality, fixed in position excluding the cost of cement concrete 1:3:6 for fillings in the frame and cement concrete 1:2:4 for lugs complet					
b	Door and window frame of size 113mmx60mmx with 35mm wide single rebate weighing 3.38kgs per rmt					
	GF	49.23	Rmt	18.24 ii b	406.08	19991.39
	F.F.	49.23	Sqm	17.10 iii b	406.08	19991.39
	S.F.	49.23	Sqm	17.10 iii b	406.08	19991.39
30	(c) Door and window frame of size 151mm x60mm with 35mm wide double rebate					
	G.F.	40.24	Rmt	18.20b	468.66	18859.03
	F.F.	40.24	Rmt	18.20b	468.66	18859.03
	S.F.	40.24	Rmt	18.20b	468.66	18859.03
31	Factory manufactured flush door fixed in position iron hinges, etc (excluding the cost of any fittings other than specified above but including labour for fixing the same in position (Code : II Revision IS-2191 Part-I) 1973 (a) Commercial withelm or gurjanfacing on both \ Sides withlaminated core and lipped edges:30mm thick					
	G.F.	15.03	Sqm	17.27a iii	2697.68	40546.19
	F.F.	15.03	Sqm	17.27a iv	2697.68	40546.19
	S.F.	15.03	Sqm	17.27a iv	2697.68	40546.19
32	Cost of Aluminium fittings complete for doors, windows such as tower bolts, handleless and screw etc. for these fittings (Excluding sliding bolt)					
	For shutter above 0.50 Sqm	45.08	Sqm	17.23b	144.04	6493.21
33	Hollock wood doors shutter windows shutter including hinges, screws, chocks, cheats, stops cords etc. complete fixed in position. a panelled, glazed or glazed and panelle					
	TOTAL GF	21.96	Sqm	17.10iii iii	1733.90	38076.44
	F.F.	21.96	Sqm	17.10iii iii	1733.90	38076.44
	S.F.	21.96	Sqm	17.10iii iii	1733.90	38076.44
34	Wire gauge fixed in steel windows,of standared rolled steel section with 3mm thick flat iron cover moulding of 12.5 mm width, fixed with machine screws, complete in all respects.					
	(b) Glass panes 4mm or 10.75 kg / sqm exceeding 0.4 sqm of area					
	TOTAL GF	21.96	Sqm	18.27	798.46	17534.18
	F.F.	21.96	Sqm	18.27	798.46	17534.18
	S.F.	21.96	Sqm	18.27	798.46	17534.18
35	Supplying and fixing of louvers for vantilators Rate totally provisional subject to design					
	GF	3.06	sqm	NS	600.00	1836.00
	F.F.	3.06	sqm	NS	600.00	1836.00

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Sr. No.	Description of Item	Qty	Unit	Ref to CSR	Total Rate	Amount
	S.F.	3.06	sqm	NS	600.00	1836.00
36	12.5 mm thick C.P. (1:4) outer side					
	Net Total	195.92	Sqm	15.9	118.16	23149.47
	F.F.	195.92	Sqm	15.9	119.84	23478.61
	S.F.	195.92	Sqm	15.9	121.52	23807.76
37	20 mm thick cement plaster 1:4					
	Net Total	123.11	Sqm	15.9	160.53	19763.42
	F.F.	123.11	Sqm	15.9	162.21	19970.24
	S.F.	123.11	Sqm	15.9	163.89	20177.07
	Para pit both sides	59.66	sqm	15.9	165.57	9878.18
38	Bearing Plaster of 10 mm thick cement mortar 1:3 cement sand finished with a floating coat of neat cement and thick coat of Lime wash / P.O.P. on top of walls when dry for bearing of R.C.C. slabs & beams.					
	Total	42.19	sqm	15.52	106.77	4504.82
39	Colour washing 2 coats					
	Quantity same as per plaster inside only	123.11	Sqm	16.5	35.03	4312.30
	FF	123.11	Sqm	16.5	35.73	4398.47
	SF	123.11	Sqm	16.5	36.43	4484.65
40	Finishing walls with exterior decorative cement based paint such as snowcem, robbiacem etc. two or more coats to give an even shade					
	Quantity same as per outer plaster	125.78	Sqm	16.14	65.31	8214.69
	FF	125.78	Sqm	16.14	66.01	8302.74
	SF	125.78	Sqm	16.14	66.71	8390.78
	Parapit both sides	59.66	Sqm	16.14	67.41	4021.68
41	Providing and laying 100mm thick (1:8:16) with brick blast 40 mm guage and 100mm thick sand filling in base complete in all respects					
	Total	45.36	Sqm	14.3	311.98	14151.32
42	Providing and laying 50mm thick (1:8:16) screed					
	F.F under tiles Quantity same as item no. 27	45.36	Sqm	14.11	140.20	6359.26
	S.F under tiles Quantity same as item no. 27	45.36	Sqm	14.11	142.20	6449.98

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Sr. No.	Description of Item	Qty	Unit	Ref to CSR	Total Rate	Amount
43	Providing and laying Rectified Rectified Porcelain floor tiles 400x400mm or more (thickness to be specified by the manufacturer) of premium quality conforming to IS:15622 of approved make in all colours laid on 20mm thick bed of Cement Mortar 1:4 (1 Cement : 4 Fine sand) for new flooring complete Rectified tiles have finished edges allowing them to be placed closer together for a narrower grout joint as opposed to other tiles and are more expensive. Unlike typical factory-edged tile, rectified tile is cut to size after the firing process. This process creates a precise, 90 degree angle edge and, as a result, can be laid with a tighter grout joint than unrectified tile. It gives a smooth, sophisticated and continuous look to the floor. Using a rectified tile allows you to place the tiles much closer together using tighter joint spacing. This makes the grout less visible as there is actually less grout used. When a wide space is used between tiles, the grout becomes a distinct part of the design and if the grout does not blend well with the tiles it can create a less than professional looking finish. In addition, the grout can easily become soiled and discolored over time and will detract from the look of the tile itself					
	G.F.	45.36	Sqm	14.138	1112.37	50457.22
	F.F.	45.36	Sqm	14.138	1114.37	50547.94
	S.F.	45.36	Sqm	14.138	1116.37	50638.66
44	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture of approved make in all colours, shades except burgundy, bottle green, black of size 300 x 600 mm as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:4 (1 cement: 4 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade					
		105.84	Sqm	14.144	928.65	98287.93
	F.F.	105.84	Sqm	14.144	931.31	98569.47
	S.F.	105.84	Sqm	14.144	933.97	98851.00
45	Coloured Granite stone tiles 20mm thick in skirting, risers of steps, dado walls and pillars laid in 12.5mm thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with neat cement slurry mixed with pigment to match the shade of stone, including rubbing and polishing including labour for fixing dowel pins and cramp					
		22.03	sqm	14.92	4856.91	106997.63
46	Brick jali with 22.86x11.43cm thick alternative layers laid in cement sand mortar 1:4 using 58 number bricks at end of duct					
		5.64	sqm	11.53	568.61	3206.98
47	Providing and fixing cast iron 100mm dia rain water pipe with screw and wooden plugs fixed and wall face including filling joints with spun yarn and cement mortar 1:2 excluding head and shoes etc.					
		48.00	m	13.41	1038.12	49829.52

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Sr. No.	Description of Item	Qty	Unit	Ref to CSR	Total Rate	Amount
48	Top Khurra 0.6mx0.6m for rain water pipe in 25mm thick cement concrete 1:2:4 over 50.00 thick cement concrete 1:8:16					
		4.00	Each	13.45	90.05	360.18
49	Bottom khurra on ground 1.2m 0.6m consisting of bricks on edge laid in cement mortar 1:3 over 7.5 cm cement concret 1:8:16 including 12.5mm thick cement plaster 1:3	4.00	Each	13.51	551.11	2204.43
50	White washing inside 3 coats	65.74	Sqm	16.3	10.91	716.89
	F.F.	65.74	Sqm	16.3	11.66	766.20
	S.F.	65.74	Sqm	16.3	12.41	815.50
51	Preparation of plywood surface for painting including sand papering the surface and applying filling with approved quality fillers consisting of white lead, linseed oil, Varnish, and Chalk Mitti including finishing the surface to required finish complete					
	2.25 times of item No 17	33.81	Sqm	16.16	33.86	1144.89
	F.F.	33.81	Sqm	16.16	34.61	1170.25
	S.F.	33.81	Sqm	16.16	35.36	1195.61
52	Applying pink primer oraluminium priming coat onwood work including preparation of surface knotting and stopping etc.					
	As Above	33.81	Sqm	16.17	19.49	658.87
	F.F.	33.81	Sqm	16.17	20.24	684.23
	S.F.	33.81	Sqm	16.17	20.99	709.59
53	Painting two or more coats excluding priming coat with synthetic enamel paint in all shades on wood work, metallic or plastered, concrete surface to give an even shade.					
	As Above	33.81	Sqm	16.18	49.48	1672.75
	F.F.	33.81	Sqm	16.18	50.23	1698.11
	S.F.	33.81	Sqm	16.18	50.98	1723.46
54	Providing and fixing aluminium sliding door bolts ISI marked anodized (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyedto required colour or shade with nuts and screws etc. complete :					
	GF	9.00	Nos	17.49 a	126.56	1139.02
	F.F.	9.00	Nos	17.49 a	126.56	1139.02
	S.F.	9.00	Nos	17.49 a	126.56	1139.02
55	Wrought iron & Mild steel ladders, framed grills, gratings etc. with ends of bars rivetted of molded forged framed window guards, barred iron doors stair case iron railing etc. including cost of bolts and nuts, screws, welding rod complete fixing in position					
	Sides of entrance only as per design Appx weight @ 50kg per Sqm	1.02	Qtls	18.4	7585.73	7737.44
	F.F.	1.02	Kgs	18.4	7585.73	7737.44
	S.F.	1.02	Kgs	18.4	7585.73	7737.44
56	Applying priming coat with metal primer on new steel or iron work including preparation of surface. +Painting two or more coats excluding priming coat with synthetic enamel paint in all shades on wood work, metallic or plastered, concrete surface to give an even shade.					
		20.60	Sqm	16.9+	66.46	1368.97
	F.F.	20.60	Sqm	16.9+	66.46	1368.97
	S.F.	20.60	Sqm	16.9+	66.46	1368.97

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Sr. No.	Description of Item	Qty	Unit	Ref to CSR	Total Rate	Amount
57	Tile terracing laid dry over roof consistng of one layer of tiles 22.86x11.43x3.83 including grouting with cements and mortar 1:4 top surface to be left clean after wire brushing	66.67	Sqm	13.17	250.84	16723.67
58	Cement concrete 1:2:4 gola 10cm x 10cm concave quadrant along junction of roofs with parapet wall finished smooth, where specially specified	32.97	Rmt	13.55	58.04	1913.71
59	Providing and Fixing ceiling consisting of 600mmX600mmX12.5mm thick Gypsum Board G.I. Cradling hanged from the ceiling bymeans of G.I. hanger complete as per drawings,specifications and tothe entire satisfaction of engineer-in- charge.					
	GF	47.21	Sqm	13.80	1343.11	63408.22
	F.F	47.21	Sqm	13.80	1343.11	63408.22
	S.F	47.21	Sqm	13.80	1343.11	63408.22
50	Earth filling including in building portion and for plinth protection area out side the building upto 5 kms lead	42.25	Cum	5.2+4.1	222.80	9413.30
61	Providing & Laying P.C.C. (1:4:8) in foundation	3.22	Cum	10.10b	3107.25	10005.35
62	Cement concrete 1:2:4 flooring for plinth protection	3.22	Cum	10.12ii	3920.60	12624.34
63	Providing, lowering, cutting & jointing salt Glazed Stone ware Pipes and Specials ISI marked as per IS 651-2007 class Sp-1 into Trenches for all depths and Laying out the same to correct alignment, Gradients, levels etc., cutting of concrete beds and joints holes, supporting the pipes and specials, in correct position in a suitable rigid manner while the same are being jointed and until the surrounding benching, haunching and envelopes are completed. including jointing of pipes and specials in trenches, using cement sand mortar 1:1 and best spun jute yarn as per IS :1887 , finishing and trowelling of each joint at an angle of 45degree with the longitudinal axes of pipe, watering, keeping the joint covered and wetted till the same are cured, testing the sewerage line for leakage and making all leakages and defects good as laid in the contract specification, chipping and finishing the cut surface to uniform finish to the entire satisfaction of engineer-in-charge Including all cartage etc. complete in all respects.			29.63		
	100 mm internal diameter pipes	10	1 mtr of complet e sewer	a)	185.90	1859.00
64	Excavation in trenches with straight or open cutting in streets, lanes or in open area with 3D/JCB or excavator including manually dressing bed, trimming sides and side slopes for sewers and manholes to full depths as shown in drawings, including, dressing to correct sections and dewatering, provision for diversion for traffic, protection of existing services i.e. telephone cables, electric lines, water supply lines and gas lines etc. night signals, profiles, pegs, sight rails, boning rods, watching, etc. fixing and maintenance of caution boards, fencing, refilling trenches, watering, ramming and restoration of surface to original level and removal of surplus spoil from the site of works, upto one chain (15m) complete in all respects.			29.5		
	A) For depth not exceeding 3 m. B.G.L.					

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Sr. No.	Description of Item	Qty	Unit	Ref to CSR	Total Rate	Amount
	a) For all classes of soil except rocky					
	100 mm SWP = $10 \times 0.60 \times 0.75 = 4.50$ cum	4.50	cum		65.55	294.98
	Cement concrete 1:6:12 with brick ballast 40mm gauge			10.7 (a)		
	100 mm SWP = $10 \times 0.085 = 0.85$ cum @Rs. 1723.30 + 35% = 2326.45	0.85	cum		2326.45	1977.48
65	Construction of brick masonry inspection chambers size as given below upto 0.60 meter average depth in 1:5 cement sand mortar, lime concrete with 40 percent lime mortar 2:3 in foundation, cement concrete 1:2:4 benching 12.50mm thick cement plaster 1:2 with a floating coat of 1mm thick of neat cement, R.C.C. 1:2:4 slabs 100mm thick cement concrete topping 50mm thick with 455mm x 455mm, 455mm x 610mm inside light duty C.I. inspection chamber cover and frame (weight as per ISI specifications) painted with three coat of brick bitumastic paint conforming to ISI Complete as per standard design :-			29.89		
	Size 450mm x 600mm inside with 455mm x 610mm cover and frame medium duty double seal.	5	Each	(b)	4106.90	20534.50
	Extra for every 0.30 metre depth of inspection chamber.			29.90		
	600 mm x 900 mm inside	5	per 0.30 mtr depth each	(c)	1247.30	6236.50
66	Construction brick masonry manhole in cement mortar 1:5 (1 cement : 5 coarse sand) RCC top slab 20cm thick using M-20 mix by using mixer and vibrator, TMT Fe500@63.464 kg/per cum, foundation concrete 1:4:8 mix (1 cement: 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making 40mm thick benching in cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement, Orange coloured PVC steps including RCC cover with frame complete as per standard design complete in all respects.			29.84		
	b) Inside size 90 x 150 cm and 120 cm deep	2	Each		15347.50	30695.00
67	Providing and laying, jointing fixing and testing ISI marked G.I. Pipe (IS 1239) B-Class premium make such as (Jindal, Hissar) including cost of specials (such as tees, bends, sockets, elbows etc.) painting with corrosive bitumastic paint, testing, cutting, threading Inside building complete.			28.35		
	15 mm i/d	28.5	Mtr.	a)	175.00	4987.50
	20 mm i/d	99	Mtr.	b)	218.00	21582.00
	25 mm i/d	96	Mtr.	c)	289.00	27744.00
	40 mm i/d	60	Mtr.	e)	415.50	24930.00
68	Providing, Fixing and jointing GI Union coupling (of approved make with the approval EIC) as per IS:1879 in GI pipe lines complete in all respects.			28.40		
	15 mm i/d	8	Each	a)	86.50	692.00
	20 mm i/d	12	Each	b)	145.50	1746.00
	25 mm i/d	20	Each	c)	184.50	3690.00
	40 mm i/d	12	Each	d)	319.50	3834.00

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69	Providing, Fixing and jonting ISI marked Gunmetal peet valves (heavy pattern) with hand wheels, on GI pipe lines laid in the ground of inside building or including all cartages complete.			28.43		
	25 mm i/d	6	Each	c)	764.50	4587.00
70	Cutting holes upto 23 cm through BB in cement walls or stone masonary walls in cement for pipes and making good the same and finshiing according to existing finish where required.			28.56		
	Through wall 11.43 cm thick	5.33	Each	a)	112.50	599.63
	Through wall 22.86 cm thick	10	Each	b)	160.50	1605.00
71	Cutting holes upto 23 cm square for pipes in flooring and roofs of bricks, tiles with lime concrete or cement concrete and making good the same and finishing according to existing finish where required.			28.57		
	Through floor or roof 11.5 cm thick	5	Each	b)	96.00	480.00
72	Providing and fixing in position Chinaware Indian Orisa water closet sizes 580mm of approval make (to the approval of the Engineer-in-charge) consisting of 10 ltr. PVC flushing cistern including cost of PVC long bend 32 mm dia complete in all respect and to the entire satisfaction of engineer in charge.	3	Each	30.2	4183.50	12550.50
73	Providing and fixing in position Chinaware European type water closet P trap or S trap of approval make (to the approval of the Engineer-in-charge) consisting of 10 ltr. PVC flushing cistern, PVC short bend 32 mm dia including cost of sheet cover complete in all respect and to the entire satisfaction of engineer in charge.	9	Each	30.4	3995.50	35959.50
74	Providing and fixing jet spray with 2'-6" long PVC pipe. a) With CP Brass nut	9	Each	30.8	444.00	3996.00
75	Providing and fixing in position vatreous chaina ware lavatory suites of approved make (to the approval of Engineer-in-charge) consisting of CP brass waste 32mm dia with one CP brass pillar tap complete in all respects ii) Size 550 x 400 mm	15	Each	30.37	2900.50	43507.50
76	Providing and fixing in position 32 mm dia G.I waste pipe embedded in wall upto floor level including cost of fittings complete as required by the Engineer in charge.	15	Each	30.42 (A)	591.50	8872.50
77	Providing and fixing in position CP brass, bottle trap 32mm dia with 40 mm seal of approved make (to the approval of Engineer-in-charge) complete in all respects.		Each	30.44 (A)	1094.00	0.00
78	Providing & fixing in position vitreous Chinware white flat back or angular lipped front urinal of approved make (to be approval of the Engineer-in- charge) of size 460 x 350 x 260 mm with C.P. brass tube connection 300 mm long complete in all respects.	9	Each	30.15	2293.00	20637.00
79	Providing and fixing partitions for different type of urinals i) 15 to 20 mm thick Dungri marble partitions size 375 mm x 750 mm	9	Each	30.21 (A)	1062.50	9562.50
80	Extra for providing and fixing G.I. 32mm waste pipe for urinals including elbow, reduser etc. Complete in all respects.	9	Each	30.19 (a)	391.00	3519.00
81	Providing and fixing in position towel rails /ring of approved make (to the approval of Engineer-in-charge) fixed in with rawl plugs embedded in walls with brass screws, complete in all respects.			30.58		

Detailed Estimate for Reconstruction of Toilet Block in Boys Hostel No. 2 (01 no Toilet Block) (Athletics Ground Side)

Sr. No.	Description of Item	Qty	Unit	Ref to CSR	Total Rate	Amount
	C.P. brass towel Rails size 15mm dia 600mm long	15	Each	a)	1363.50	20452.50
82	Providing and fixing in position best Indian make soap dish of approved make (to the approval of Engineer-in-charge) fixed into wall with C.P brass screws and complete in all respects.	15	Each	30.60	743.00	11145.00
83	Providing & Fixing 5mm thick bevelled edge mirror of superior glass (of approved make) complete with 4mm thick hardboard backing fixed in with rawl pluses 50mm C.P. brass screws in washers and S/S studs on top complete in all respects. (as required by the Engineer-in- Charge)			30.61		
	Size 550mm x 400 mm	6	Each	b)	787.00	4722.00
84	Providing & Fixing in position CP brass flange of approved make (to the approval of Engineer-in-charge) under various fixtures complete in all respects.	69	Each	30.64 A)	52.00	3588.00
85	Providing & Fixing in position CP brass extension piece 25mm long to 50mm long of approved make (to the approval of Engineer-in-charge) under various fixtures complete in all respects.	12	Each	b)	89.50	1074.00
86	Providing & Fixing in position 15 mm i/d bib cock of approved make (to the approval of Engineer-in-charge) complete in all respects.			30.65 (A)		
	C P Brass bib Cock long nose long body without flange	21	Each	i)	1043.00	21903.00
	C P Brass Bib Cock without flange	12	Each	ii)	819.00	9828.00
87	Providing & Fixing in position stop cock /Angle valve of approved make (to the approval of Engineer-in-charge) complete in all respects.			30.66		
	CP brass 15mm Stop cock male & female end	0	Each	a)	741.00	0.00
	CP brass 15mm Concelled Stop cock with flange	36	Each	b)	1185.50	42678.00
88	Providing & fixing in position PVC flexible tube connection of approved make (to the approval of Engineer-in-charge) complete in all respects.			30.72		
	PVC tube connection of size 15mmx375mm with CP brass nut	24	Each	b)	160.00	3840.00
89	Providing and fixing in position SWR UPVC Soil waste vent or antisiphonage pipes to I.S.I. specification (IS 13592) of approved make (to the approval of Engineer-in-charge) including cutting, jointing, wastage, but excluding cost of lead joint.			30.74 (iii)		
	Type B			B		
	110mm o/d SWR UPVC pipe lines laid complete.	134	Mtr.	b)	362.50	48575.00
	75mm o/d SWR UPVC pipe lines laid complete.	110	Mtr.	(d)	271.50	29865.00
90	Providing and fixing H.C.I. Floor traps conforming to I.S.I. Specification (IS:1729) of approved make (to the approval of Engineer-in-charge) of the self cleaning design with C.P. brass hinged grating with frame with or without vent arm and including cement concrete 1:2:4 under and around the floor trap where required upto floor level complete in all respects including cutting and making good the walls and floors,etc. minimum depth of water should be 150mm with a minimum seal 50mm.			30.79		
	75 mm i/d outlet deep seal	75	Each	a)	902.00	67650.00
91	Providing and fixing in position SWR UPVC specials for soil waste vent or anti syphonage pipes to I.S.I specifications (IS:14735) of approved make (to the approval of Engineer-in-charge) including cutting and wastage etc. cutting holes in walls roofs or floors etc. and making good to its original condition but excluding cost of lead joining.			30.81 (iii)		

Detailed Estimate for Reconstruction of Toilet Block in Boys Hostel No. 2 (01 no Toilet Block) (Athletics Ground Side)

Sr. No.	Description of Item	Qty	Unit	Ref to CSR	Total Rate	Amount
	For 110 mm o/d pipes			(B)		
	v) Bend Plain	8	Each		125.00	1000.00
	ii) Single junction with door	8	Each		204.00	1632.00
	iv) Bend with Door	8	Each		151.00	1208.00
	vi) Cowl	5	Each		32.50	162.50
	viii) Collar	33	Each		93.50	3085.50
	For 75 mm o/d pipes			(D)		
	v) Bend Plain	7	Each		73.50	514.50
	ii) Single junction with door	16	Each		122.50	1960.00
	iv) Bend with Door	8	Each		92.50	740.00
	vi) Cowl	7	Each		22.50	157.50
	vii) Collar	21	Each		61.50	1291.50
92	Providing and fixing in position automatic brass ball, cock in tanks.			30.96		
	Plastic ball cock with rod and plastic ball v) 40mm i/d	6	Each	(A)	1070.00	6420.00
93	Providing & fixing in position on terrace (at all floor level) HDPE water storage tanks of approved make (to the approval of Engineer-in-Charge) cover with suitable logging arrangement and making necessary holes for inlet, outlet and overflow pipes, but without fitting and base support for tank. i) Triple layer tanks			30.97 (A)		
	1000 ltr. Capacity x 6 No. = 6000 ltr.	6000	Ltr		11.00	66000.00
94	Providing and fixing in position gully traps fixed in cement concrete 1:4:8 complete with Grating 150mm x 150mm, cover and frame clear opening 300mm x 300mm and out of side size 330mm x 330mm and chamber including cost of all bricks work in cement mortar 1:5 cement concrete 1:2:4 in coping around cover and frame etc. as per standard design minimum depth of water should be 150 mm with a minimum seal 50mm.			30.99		
95	100mm i/d SW gully trap with HCI grating and cast iron cover weighing approximately 7.26 kg and frame clear, opening 300mm x 300mm and out of side size 330mm x 330mm.	8	Each	(a)	1680.00	13440.00
96	Construction of RCC slab 1:2:4 for overhead water tank on roof.	6	Each	NS	2476.00	14856.00

Detailed Estimate for Reconstruction of Toilet Block in Boys Hostel No. 2 (01 no Toilet Block) (Athletics Ground Side)

Sr. No.	Description of Item	Qty	Unit	Ref to CSR	Total Rate	Amount
97	RECESSED PVC CONDUIT PIPE WIRING SYSTEM WITH MODULAR SWITCHES:Wiring in PVC insulated copper conductor single core FR cable (ISI marked), 1100volts grade to be laid in heavy gauge, PVC, fire retardant conduit pipe 20mm/25mm dia. ISI Marked, recessed in wall etc., complete with powder coated/anodized concealed metal boxes required for suitable number of modules, for having electronic fan regulators, bell push, electronic buzzer, 3pin 6Amp., 3pin 16/20Amp. Sockets and 6Amp./16/20Amp. Switches (Screw Type Modular Accessories) etc., and covered with Frame Plate etc., & including the cost of required number of modular switches/sockets, step type electronic fan regulator 100watts, PVC connector (For Fan Box and Electronic Buzzer), Steel Hooks, Circular Inspection Box (Recessed Type and Deep Type) PVC conduit pipe & copper wire and other petty material etc. including the cost of cutting and filling up of chases:- Make List PVC Conduit (ISI Marked) AKG,Diplast,Finolex Poly India ,Polycab. Make List PVC Copper Wire :-Finolex/Polycab/Havell,s. Make List Accessories Modular Switch, Socket etc.:- North West, Legrand (Mosaic Series), SSK Grand, Myrius, SSK(Signature NV)			33.02		
	Wiring fan point with sheet metal fan box (shape hexagonal) in PVC insulated copper conductor single core FR cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts.	15	Each	(i) b	982.59	14738.85
	Wiring light point in PVC insulated copper conductor single core FR cable (ISI marked) overall 1.5 sq. mm, 1100volts grade	90	Each	ii)	508.92	45802.80
	Wiring 3 pin 16/20 amp. power plug control (shuttered) and switch.	3	Each	(vi)	399.97	1199.91
98	PVC INSULATED SINGLE CORE FR COPPER CONDUCTOR CABLE:Supply and erection of PVC insulated single core FR copper conductor cable ISI marked left bare in pipe or casing of suitable size excluding the cost of supply and erection of pipe or casing. Make List PVC Copper Wire:- Finolex/Polycab/Havell,s.			33.09		
	PVC insulated copper conductor single core FR cable (ISI marked) overall 1 sq.mm, 1100volts grade	150	Mtr	(i)	11.41	1711.50
	PVC insulated copper conductor single core FR cable (ISI marked) overall 1.5 sq.mm, 1100volts grade	220	Mtr	(ii)	15.11	3324.20
	PVC insulated copper conductor single core FR cable (ISI marked) overall 4 sq.mm, 1100volts grade	240	Mtr	(iv)	29.97	7192.80
	PVC insulated copper conductor single core FR cable (ISI marked) overall 6 sq.mm, 1100volts grade	270	Mtr	(v)	45.01	12152.70

Detailed Estimate for Reconstruction of Toilet Block in Boys Hostel No. 2 (01 no Toilet Block) (Athletics Ground Side)

Sr. No.	Description of Item	Qty	Unit	Ref to CSR	Total Rate	Amount
99	PVC, HDPE PIPES & PVC FLEXIBLE PIPES:Supply & erection of PVC pipes & HDPE pipes (fire retardant) for wiring purposes including bends, inspection boxes etc., where necessary including other petty material as per PWD General Specifications (Electrical Works):- Make List PVC Conduit (ISI Marked) AKG, Diplast, Finolex, Poly India, Polycab			33.12		
	Heavy gauge PVC conduit pipe 25mm dia. (ISI marked) Flushed	100	Mtr	vii)	40.90	4090.00
100	MINIATURE CIRCUIT BREAKERS/ RCBO's/ RCCB's: Supply and erection of Miniature Circuit Breakers/ RCBO's/ RCCB's in the existing MCB distribution board as per PWD General Specifications 2010 including connections with suitable size of thimbles/lugs. GROUP-B: (Havell's, HPL, ABB, Indo Asian & other brands approved by PWD)			33.16		
	Miniature circuit breaker single pole 6 to 32amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	15	Each	(xviii)	131.73	1975.95
	Miniature circuit breaker double pole 40amp. (Breaking capacity 10kA, Curve-C) suitable for 240/ 415 volts 50cycles AC supply	9	Each	(xxiii)	575.19	5176.71
101	SHEET METAL DOUBLE DOOR DISTRIBUTION BOARD FOR MCB/ RCBO/ RCCB's: Supply and erection of sheet metal double door distribution boards of suitable size and of required no. of ways for mounting miniature circuit breakers/ RCBO's/ RCCB's in the existing MCB distribution board as per PWD General Specifications (Electrical Works) including connections with suitable size of thimbles and bonding to existing earth etc.GROUP-B: (Havell's, HPL, ABB, Standard & other brands approved by PWD)			33.17		
	Sheet metal double door S.P. & N. distribution board (dust protected) provided with bus bar, neutral link and din bar, suitable for incorporating MCB's/ RCBO/ RCCB's, 8 way each	3	Each	xiii)	897.00	2691.00
102	Supply & Erection of LED Down light 15 watt recessed mounted pressure die -cast aluminum luminaries in powder coated white finish with drop down PC diffuser with optimize heat sink for efficient heat dissipation and separate replaceable electronic driver complete with connections and testing as per satisfaction of Engineer in charge at site Make JAQUAR LESV01R015XC or Havell's LHEBMIP5PZ1W015	66	No's	NS	1545.00	101970.00

Detailed Estimate for Reconstruction of Toilet Block in Boys Hostel No. 2 (01 no Toilet Block) (Athletics Ground Side)

Sr. No.	Description of Item	Qty	Unit	Ref to CSR	Total Rate	Amount
103	Supply & erection of heavy duty Exhaust Fan size 12" (300mm-900RPM), Single phase ISI Marked, Double ball Bearing, Copper wound compete with louver shutter of matching colour of exhaust fan on the existing surface according to the site requirements, including then cost of louver shutter including connection & testing etc. with flexible wire and petty material required for connections and Louver shutter .Complete in all respect as desired by the Engineer-in-Charge of the work. Make-Orient/ Crompton Greaves EXHD 300-6-1 /Havell,s. turbo force SP	12	No's	NS	3800.00	45600.00
Total						4608123.78

- Note:**
1. Any error regarding description,reference to CSR quantity, rate,premium, unit calculations omission , addition will be corrected at any stage as per CSR,AOR, specifications and drawings and no claim whatsoever shall be entertained on this account.
 2. Quantity may vary at the time of execution of Work

Say Rs. 4608124/-

(Rs. Forty Six Lac Eight Thousand One Hundred and Twenty Four Only)

Not Available
S.D.E

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A.E (Civil)

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J.E (Civil)

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A.E (Electrical)

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J.E (Electrical)

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Executive Engineer

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Superintending Engineer