

BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE

ESTIMATE REF NO : CF/CA/15/09

NAME OF WORK : CONSTRUCTION OF TOILETS & SHOP CUBICLES FOR NEW FABRICATION BAY AND ROLL FORMIG BAY IN FACTORY.

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
6.4	01	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in:				
6.4.1	01A	Cement Mortar 1:6 (1 cement : 6 coarse sand)	1.400	CU.M	2106.81	2949.53
5.9.3	02	Centring and shuttering including strutting, propping etc. and removal of form for Suspended floors, roofs, landings, balconies and acces platform.	100.000	SQ.M	187.35	18735.00
5.1	03	5.1: Providing and laying in position specified grade of REINFORCED CEMENT CONCRETE excluding the cost of centring, shuttering, finishing and reinforcement:- ALL WORK UPTO PLINTH LEVEL.				
5.1.3	03A	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	0.800	CU.M	1702.00	1361.60
5.22.3	04	5.22: REINFORCEMENT FOR RCC WORK including straightening, cutting, bending, placing in position and binding all complete -Cold twisted bars / HYSD bars etc. .	80.000	KG.	6.19	495.20
6.13.2	05	6.13: HALF BRICK MASONRY WITH FPS BRICK OF CLASS DESIGNATION 75 in superstructure above floor V level In cement mortar 1:4 (1 cement: 4 coarse sand)	96.000	SQ.M	247.68	23777.74
13.1.2	06	13.1: Providing 12mm thick CEMENT PLASTER (including providing necessary plaster grooves wherever required), of mix 1:6 (1 cement: 6 fine sand)	12.000	SQ.M	49.00	588.02
13.2.2	07	13.2: Providing 15mm thick CEMENT PLASTER on rough side of single or half brick wall of mix 1:6 (1 cement: 6 fine sand)	12.000	SQ.M	56.28	675.31

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17.1	08	17.1: Providing & fixing WATER CLOSET SQUATTING PAN (INDIAN TYPE W.C PAN) with 100mm SCI or UPVC (as required) P or S trap, 10 litre low level white PVC flushing cistern with manually controlled device (handle lever) conforming to IS 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required.						
17.1.1	08A	White Vitreous China Orissa pattern W.C pan of size 580 x 440 mm with integral type foot rests.	12.000	EACH	2278.75		27345.00	
17.2	09	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required.						
17.2.1	09A	W.C. pan with ISI marked white solid plastic seat and lid.	8.000	EACH	2126.60		17012.80	
17.31	10	Providing and fixing, 600 x 450 mm, BEVELLED EDGE MIRROR of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with CP brass screws & washers complete.	16.000	EACH	493.65		7898.40	
18.15	11	Providing and fixing BRASS BIB COCK of approved quality.						
18.15.1	11A	15mm nominal bore	48.000	EACH	191.70		9201.60	
18.57.1	12	Providing and fixing PTMT, push cock of approved quality and colour. 15mm nominal bore , 98mm long. weighing not less than 75gms.	36.000	EACH	113.90		4100.40	

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18.17.1	13	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)-25mm nominal bore.	12.000	EACH	285.50		3426.00	
18.10.2	14	Providing and fixing G.I. pipes complete with G.I, fittings and clamps, including cutting and making good the walls.20MM dia nominal bore.	40.000	R.M	133.85		5354.00	
18.10.5	15	Providing and fixing G.I. pipes complete with G.I, fittings and clamps, including cutting and making good the walls.40MM dia nominal bore.	40.000	R.M	264.05		10562.00	
18.11	16	Concealed pipe including painting with anti corrosive bitumastic paint, cutting chasis and making good the wall.						
18.11.1	16A	15mm dia nominal bore.	200.000	R.M.	144.75		28950.00	
18.11.1	16B	20mm dia nominal bore	100.000	R.M.	170.15		17015.00	
18.12	17	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.						
18.12.3	17A	25mm dia nominal bore.	200.000	R.M.	156.85		31370.00	
8.2.2.2	18	8.2: Providing & fixing 18mm THICK gang saw cut, mirror polished, (pre moulded and pre polished) machine cut for KITCHEN PLATFORMS, VANITY COUNTER WINDOW SILLS, FACIAS and similar locations of required size of approved shade, colour and texture liad over 20 mm thick base cement mortar 1:4 (1 cement: 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all lvls. Granite of any colour and shade slab area above 0.50 sqm	32.000	SQ.M	2514.12		80451.97	
8.3.2	19	Extra for edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete	72.000	R.M.	97.60		7027.20	

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		as per design approved by Engineer-in-charge. - for granite work				
11.3.1	20	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.	31.000	SQ.M	184.14	5708.46
12.41	21	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. Single socketed pipes:				
12.41.1	21A	75mm diameter	36.000	R.M	95.00	3420.00
12.41.2	21B	110mm diameter	56.000	R.M	163.40	9150.40
12.42	22	Providing and fixing on wall face RIGID UNPLASTICISED P.V.C. MOULDED FITTINGS / ACCESSORIES for unplasticised PVC RAIN WATER PIPES conforming to IS:13592 Type A including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for termal expansion.				
12.42.4.1	22A	75x75x75 mm Single tee without door	36.000	EACH	157.70	5677.20
12.42.1.1	22B	75mm coupler	12.000	EACH	81.40	976.80
12.42.1.2	22C	110mm coupler	12.000	EACH	101.65	1219.80
12.42.4.2	22D	110 x 110 x 110mm single tee without door	12.000	EACH	208.45	2501.40
12.42.5.1	22E	75mm bend 87.5 degree	12.000	EACH	88.40	1060.80
12.42.5.2	22F	110mm bend 87.5 degree	12.000	EACH	134.20	1610.40
12.42.6.1	22G	75mm shoe	12.000	EACH	152.25	1827.00

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					RS	P	RS	P
12.42.6.2	22H	110mm shoe	12.000	EACH	263.10		3157.20	
17.7.2	23	Providing & fixing WASH BASIN with C.I brackets, 15mm C.P brass pillar taps, 32mm C.P brass waste of standard pattern including painting of fittings and brackets, cutting and making good the walls, wherever required. White Vitreous China wash basin size 630x 450 mm with a SINGLE 15 mm C.P brass pillar taps.	4.000	EACH	1201.70		4806.80	
18.64	24	Providing and fixing PTMT swivelling shower, 15mm nominal bore. weighing not less than 40gms.	4.000	EACH	101.95		407.80	
9.117	25	Providing and fixing factory made UPVC door frame made of UPVC extruded section having an overall dimension as below (tolerance +/- 1mm) with wall thickness 2.0mm +/- 2mm corners of the door frame to be jointed with galvanized brackets and stainless stel screws, joints mitred and plastic welded . The hinges side vertical of the frames reinforced by galvanized M.S. tube of size 19mm x 19mm and 1mm +/- 0.1mm wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge.						
9.117.1	25A	Extruded section profile size 48x40mm.	150.000	R.M.	141.00		21150.00	
9.118.2	26	Providing and fixing to existing door frames 30mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a UPVC hollow section of size 60x30mm and wall thickness 2mm +/- 0.2mm with inbuilt decorative moulding edgine on one side. The styles and rails mitred and joined at the corners by means of M.S.galvanised / plastic brackets of size 75x220mm having wall thickness 1.0mm and stainless steel screws. The	50.000	SQ.M	2271.80		113590.00	

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					RS	P	RS	P
		styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20mm and 1mm +/- 0.1mm wall thickness. The lock rail made up of "H" section, a UPVC hollow section of size 100x30mm and 2mm +/- 0.20mm wall thickness fixed to the shutters styles by means of plastic / galvanised M.S. 'U' cleats. The shutter frame filled with a UPVC multi-chambered single panel of size not less than 620mm, having over all thickness of 20mm and 1mm +/- 0.1mm wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturers specification and direction of Engineer-in-charge.						
39 OF AGT 01	27	Supplying and fixing of PVC Nahani trap 100x50mm	20.000	EACH	50.00		1000.00	
17.69	28	Providing and fixing PTMT Waste coupling for wash basin and sink, of approved quality and colour.						
17.69.1	28A	Waste coupling 31mm of 79mm length and 62mm breadth weighing not less than 45 gms.	36.000	EACH	75.80		2728.80	
11.36	29	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except begundy, bottle green, black of any size as approved by Engineer-in-charge 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 mixed with pigment of matching shade complete.	220.000	SQ.M	492.26		108298.17	
11.38	30	Providing and laying Ceramic glazed FLOOR tiles 300x300 mm (thickness to be specified by the manufacturer) of	444.000	SQ.M	566.46		251510.19	

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		1st quality conforming to IS: 15622 of approved make in all colours, shades except white, ivory, grey, fume red brown laid on 20mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigments etc. complete.				
AGT. 19/08-1	31	Providing and fixing white vitreous china flat back lipped front urinal of size 430c260x350mm with Electronic flushing system operated in D.C. current with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls wherever require power point will be provided by BHEL free of cost at required level.	36.000	EACH	11969.10	430887.60
9.1	32	Providing wood work in frames of doors, windows, clerestory windows and other frmes, wrought framed and fixed in position:				
9.1.1	32A	Second class teak wood	1.400	CUM	52090.00	72926.00
9.20	33	Providing & fixing ISI mark FLUSH DOOR SHUTTERS confirming to IS: 2202 (Part I) DECORATIVE TYPE, core of block board construction with frame of 1st class hard wood & well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
9.20.1	33A	35 mm thick including ISI marked Stainless Steel butt hinges with necessary C.P. brass screws.	42.000	SQ.M	1473.50	61887.00
21.1	34	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make				

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					RS	P	RS	P
		conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) :						
21.1.1	34A	For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	250.000	KG.	306.30		76575.00	
21.1.2.2	34B	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately). Powder coated aluminium (minimum thickness of powder coating 50 micron)	160.000	KG	326.60		52256.00	
21.3	35	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):						

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21.3.1	35A	With float glass panes of 4.0 mm thickness	81.000	SQ.M	554.95		44950.95	
17.28	36	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.						
17.28.2.1	36A	Flexible pipe-32mmdia	18.000	EACH	46.80		842.40	
17.28.2.2	36B	Flexible pipe-40 mm dia	18.000	EACH	49.10		883.80	
12.20	37	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness and 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 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) and finished neat complete.	432.000	SQ.M	390.60		168739.20	
12.34(2002)	38	Lime concrete terracing on roofs average thickness 10 cm laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1lime : 2 surki) rammed and finished with gur and belgiri treatment complete including rounding of junctions with parapet wall complete.	432.000	SQ.M	272.85		117871.20	
13.37.1	39	White washing with lime to give an even shade: New work (three or more coats)	1080.000	SQ.M	6.75		7290.00	
13.46	40	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 base coat of water proofing cement paint applied @ 2.20 kg/10 sqm).	1080.000	SQ.M	50.40		54432.00	
19.27	41	Constructing brick masonry road gully chamber 50x45x60 cm with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :With F.P.S.	8.000	EACH	1766.61		14132.88	

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		bricks				

1941772.02

ESCALATION @ %

0.00

TOTAL ESTIMATED VALUE

1941772.02

CONTRACTOR TENDER PERCENTAGE @ ABOVE / BELOW / AT PAR _____%

(Percentage in words)

SERVICE TAX @ %

TOTAL VALUE OF WORK

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CONTRACTOR/ TENDERER

ACCEPTING OFFICER