

BHARAT HEAVY ELECTRICALS LIMITED

BOILER AUXILIARIES PLANT

RANIPET - 632406

ESTIMATE

ESTIMATE REF NO : CF/RB/09/16

NAME OF WORK : MODIFICATION WORKS IN FACTORY MAIN CANTEEN

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
15.2.1&2A	01	Restricted partical dismantling for the following items a) Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.For 1:3:6 or richer mix	1.000	CUM	297.68	297.68
15.3	01B	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	1.000	CUM	537.55	537.55
15.7.4	01C	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	1.000	CUM	310.75	310.75
15.23.2	01D	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.For thickness of tiles above 25 mm and up to 40 mm	1500.000	SQM	16.60	24900.00
15.56	01E	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	500.000	SQM	8.20	4100.00
15.44	01F	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :15 mm to 40 mm nominal bore	100.000	RM	3.00	300.00
2.27	02	Supplying and filling in plinth with good river sand sand under floors including, watering, ramming consolidating and dressing complete.	25.000	CUM	301.50	7537.50
4.1.3	03A	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth	1.000	CUM	1599.85	1599.85

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					RS	P	RS	P
		level : mix of 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)						
4.1.8	03B	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : mix with 1:4:8 (1 cement: 4 fine sand : 8 graded stone aggregate 40 mm nominal size)	6.000	CUM	1415.55		8493.30	
5.22.3	04	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Cold twisted bars	100.000	KG	6.19		619.00	
6.4.2	05	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in: Cement mortar 1:6 (1 cement: 6 coarse sand)	5.000	CUM	2106.50		10532.50	
6.12.2	06	Half brick masonry with F.P.S. brick of class designation 75 in foundations and plinth in.cement mortar 1:4 (1 cement: 4 coarse sand)	5.000	SQM	215.23		1076.17	
8.2.2.2	07	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm 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 levels. Granite of any colour and shade,Area of slab over 0.50 sqm.	1.000	SQM	2514.12		2514.12	
8.2.2.2	07A	Same as above but Granite of any colour and shade area of slab over 0.50 sqm will be issued at free of cost at BHEL stores.	1260.000	SQM	656.87		827656.20	

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					RS	P	RS	P
8.9.1.2	08	Stone tile (polished) work for wall lining over 12mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete. 8mm thick Granite of any colour and shade.	1.000	SQM	1062.22		1062.22	
8.9.1.2	08A	Same as above but Granite of any colour and shade will be issued at free of cost at BHEL stores.	405.000	SQM	478.05		193610.25	
11.3.1	09	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.	5.000	SQM	104.89		524.45	
13.1.2	10	12 mm cement plaster of mix : cement mortar 1:6 (1 cement: 6 fine sand)	50.000	SQM	49.00		2450.10	
13.6.2	11	20 mm cement plaster of mix :Cement mortar 1:6 (1 cement: 6 coarse sand)	50.000	SQM	73.89		3694.60	
18.10.1	12	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc.Internal work - for 15 mm dia. nominal bore.	100.000	RM	105.85		10585.00	
18.10.2	13	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc.Internal work - for 20 mm dia. nominal bore	100.000	RM	133.85		13385.00	
18.10.3	14	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc.Internal work - for 25 mm dia. nominal bore.	150.000	RM	179.65		26947.50	
18.17.1	15	Providing and fixing gun metal gate valve of 25mm nominal bore with CI wheel of approved quality (screwed end)	2.000	EACH	285.50		571.00	
18.49.1	16	Providing and fixing C.P. brass bib cock of approved quality	20.000	EACH	313.10		6262.00	

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					RS	P	RS	P
		conforming to IS:8931 for 15 mm nominal bore.						
18.17.2	17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end): for 32 mm nominal bore.	2.000	EACH	358.00		716.00	
AGTNO:CF18/1	18	Supplying and fixing of PVC nahani trap 100x50mm.	5.000	EACH	50.00		250.00	
17.32.2	19	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 453x357mm	4.000	EACH	465.10		1860.40	
11.37	20	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	10.000	SQM	534.31		5343.14	
14.42.2	21	White washing with lime to give an even shade :for Old work (one or more coats)	2500.000	SQM	2.55		6375.00	
14.43	22	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	100.000	SQM	3.20		320.00	
14.66.1	23	Finishing walls with Acrylic Smooth exterior paint of required shade : For Old work (Two or more coat applied @ 1.67 Itr/ 10 sqm) on existing cement paint surface).	3030.000	SQM	36.30		109989.00	
13.43.1	24	Applying one coat of cement primer of approved brand and manufacture on wall surface :For Cement primer.	3000.000	SQM	17.20		51600.00	
1.1.1AII	25	Carriage of materials by mechanical transport including loading,unloading	10.000	CUM	49.42		494.20	

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		& stocking-excavated earth, debris etc.,For 1 KM lead.				
12.41.2	26	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 10 mm gap for thermal expansion(i) single socketed pipes. for 110 mm diameter.	10.000	RM	163.40	1634.00

1328148.48

ESCALATION @ %

0.00

TOTAL ESTIMATED VALUE (A)

1328148.48

CONTRACTOR TENDER PERCENTAGE @ ABOVE / BELOW / AT PAR _____% (B)

(Percentage in words)

SUB TOTAL (A+B)

SERVICE TAX @ % (C)

SERVICE HEAD : _____

TOTAL VALUE OF WORK (A+B+C)

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