

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**

NAME OF WORK : PART I: STRUCTURAL WORKS FOR CONSTRUCTUON OF STORES SHED FOR BOUGHT (

ESTIMATE REF NO : CF/CA/05

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RS RATE P	RS AMOUNT P
10.2	01	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	60000	KG.	10.70	642000.00
12.50	02	Supply & Installation of precoated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm +/- 5% total coated thickness (TCT) thick Zinc coating 120 gsm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both sied of the sheet and polyester top coat 15-18 microns Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metres or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling / self tapping screws of size (5.5 x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch in horizontal/vertical or curved surfaces excluding the cost of purlins, rafgters and trusses and including cutting to size and shape wherever required.	1000	SQ.M	440.65	440650.00
12.51.1/.2	03	Providing and fixing precoatedgalvanized steel sheet roofing accessories 0.50 mm +/- 5% total coated thickness (TCT) thick Zinc coating 120 gsm as per IS:277 in 240 mpa steel grade, 5-7 microns epoxy coating on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws or with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete Ridges/Flashings upto 600 mm	50	RMT	453.15	22657.50
13.63.1	04	Painting with aluminium paint of approved brand and manufacture to give an even shade. TWO OR MORE COATS on new work. (for structural steel of average area of 26.18	1600	SQ.M	28.60	45760.00

CONTRACTOR/ TENDERER

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		sq.m/m.t.)				
13.62.1	05	Painting with Synthetic enamel paint of approved brand and manufacture to give an even shade. TWO OR MORE COATS on new work. (for structural steel of average area of 26.18 sq.m/m.t.)	300	SQ.M	51.30	15390.00

TOTAL ESTIMATED VALUE 11,66,457.50

CONTRACTOR TENDER PERCENTAGE @ ABOVE / BELOW / AT PAR \_\_\_\_\_%

(Percentage in words )

TOTAL VALUE OF WORK =====

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**ESTIMATE****NAME OF WORK : PART II: CIVIL WORKS FOR CONSTRUCTUON OF STORE SHED FOR BOUGHT OUT ITEM:****ESTIMATE REF NO : CF/CA/06**

CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RS RATE P	RS AMOUNT P
2.8.1	01	Earth work in EXCAVATION by mechanical means (Hydraulic excavator) / manual means IN FOUNDATION TRENCHES OR DRAINS ( not exceeding 1.5 m in width or 10 sqm on - plan) including dressing of sides & ramming of bottoms, lift upto 1.5m,including getting out the excavated soil and disposal of surplus excavated soil as directed,with in a lead of 50 m IN ALL KINDS OF SOIL.	300	CU.M	103.40	31020.00
2.25	02	FILLING AVAILABLE EXCAVATED EARTH (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth; consolidating each deposited layer by ramming and watering, lead upto 50 M and lift upto 1.5 M.	245	CU.M	45.70	11196.50
2.27	03	Supplying and FILLING IN PLINTH WITH RIVER SAND under floors including watering, ramming, consolidating and dressing complete.	85	CU.M	301.50	25627.50
2.28	04	2.28: SURFACE DRESSING OF THE GROUND including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead upto 50 M and lift upto 1.5 M IN ALL KINDS OF SOIL. all kinds of soil	100	SQ.M	5.12	512.00
2.9	05	Earth work excavation by mechanical means (Hydraulic excavator) / manual means IN FOUNDATION TRENCHES OR DRAINS ( not exceeding 1.5 m in width or 10 sqm on plan ) including dressing of sides and ramming of bottoms,lift upto 1.5 m,including getting out the excavated soil and disposal of surplus excavated soils as directed within a lead of 50 M, in: ORDINARY ROCK	190	CU.M	162.65	30903.50
4.10	06	Providing and laying DAMP PROOF COURSE 40mm thick with cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 12.5 mm nominal size)	85	SQ.M	76.81	6528.85

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CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RS RATE P	RS AMOUNT P
4.1.9	07	Providing and laying in position CEMENT CONCRETE of specified grade excluding the cost of centring and shuttering for ALL WORKS UPTO PLINTH LEVEL, with: CC 1:4:8 (1 cement: 4 fine sand: 8 graded stone aggregate 40 mm nominal size)	125	CU.M	1415.55	176943.75
5.33	08	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centring, shuttering, finishing and reinforcements including Admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete improve workability without imparing strength and durability as per direction of Engineer-in-charge for M-25 grade reinforced cement concrete, etc. all work upto floor V level.	140	CU.M	2023.60	283304.00
5.1	09	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, for grade of: .				
5.1.2	09A	RCC 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size)	10	CU.M	1660.00	16600.00
5.1.3	09B	RCC 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size)	125	CU.M	1702.00	212750.00
5.9	10	CENTRING and SHUTTERING inlcuding strutting, propping etc and removal of form in all floors; for: .				
5.9.1	10A	Foundations, footings, bases of columns etc. for mass concrete.	100	SQ.M	119.25	11925.00
5.9.3	10B	Suspended floors, roofs, landings, balconies, loft and access platform etc. (Upto 3.5m floor height). (NOTE:- Floor height to be taken from finished floor	145	SQ.M	187.35	27165.75

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CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
		level to finished slab bottom).				
5.9.5	10C	Lintels, beams, plinth beams, girders, bressummers and cantilevers. (Upto 3.5m floor height). (NOTE:- Floor height to be taken from finished floor level to finished beam bottom).	665	SQ.M	162.65	108162.25
5.11	11	Extra for additional height in centring, shutt- ering wherever required with adequate bracing, propping etc. including cost of de-shuttering and decentring at all levels, for suspended floors, roofs, landing, beams and balconies; for: (NOTE: Plan area to be measured) (NOTE:- Floor height to be taken from finished floor level to finished slab/ beam bottom).				
5.11.1	11A	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	500	SQ.M	106.20	53100.00
5.18	12	Providing PRECAST CEMENT CONCRETE JALLI in 1:2:4 (1 cement: 2 coarse sand: 4 stone aggregate 6 mm nominal size) reinforced with 1.6mm dia mild steel wire including centring and shuttering, roughening, cleaning fixing & finishing in cement mortar 1:3(1 cement:3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits ; of:				
5.18.1	12A	50mm thick	25	SQ.M	350.70	8767.62
5.22	13	REINFORCEMENT FOR RCC WORK including straightening, cutting, bending, placing in position and binding all complete at all levels, with: .				
5.22.3	13A	Cold twisted bars / HYSD bars etc.	21000	KG.	6.19	129990.00
6.5	14	Extra for brick work in superstructure above plinth level upto floor five level for each four floors or part thereof by mechanical means by lifting material using mobile crane.	470	CU.M	190.00	89300.00

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CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
6.1	15	Brick work with FPS BRICKS OF CLASS DESIGNATION 75 IN FOUNDATION AND PLINTH, in:				
6.1.2	15A	Cement mortar 1:6 (1 cement: 6 fine sand)	470	CU.M	1798.00	845060.00
7.1	16	RANDOM RUBBLE MASONRY with hard stone in FOUNDATION and PLINTH including levelling up with cement concrete 1:6:12 (1 cement: 6 coarse sand: 12 graded stone aggregate 20 mm nominal size) at plinth level, (with bond/through stones atleast 1 No. per 0.5 sqm of wall area), in :				
7.1.1	16A	Cement mortar 1:6 (1 cement: 6 coarse sand) .	120	CU.M	1411.55	169386.00
10.6	17	Supplying and fixing ROLLING SHUTTERS of approved make, made of required size M.S. Laths inter- locked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides (25x65mm made from 3.15mm thick M.S. sheet) and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5cm long wire springs grade No.2 & M.S top cover of required thickness for rolling shutters, with:				
10.6.1	17A	80x1.25 mm M.S laths with 1.25 mm thk top cover	62	SQ.M	1208.45	74923.90
10.8.2	17B	Extra for providing mechanical devise chain and carank operation for operating rolling shutters Exceeding 16.80 Sq.m.	62	SQ.M	538.40	33380.80
10.11	18	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side/ top/ centre hung with beading and all members such as K11 and K12B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and rivted with 15 x 3 mm lugs, 10 cms. long,	35	KG.	178.90	6261.50

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CPWD 2007 REF	SLNO	DESCRIPTION	QTY	UNIT	RATE RS P	AMOUNT RS P
		embedded in cement concrete blocks 15 x 10 x 10 cms. of 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of glass panes (4 mm thick) with glazing clips and special metal sash putty of approved make complete including applying a priming coat of approved (Zinc Chromate) steel primer, excluding the cost of metal beading and other fitting except necessary hinges or pivots as required etc. for:				
11.4	19	52mm thick CEMENT CONCRETE FLOORING WITH "HARDCRETE" CONCRETE HARDENER TOPPING, under layer 40mm thick cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) and top layer 12mm thick "HARDCRETE" concrete hardener consisting of mix 1:2 (1 cement hardener mix: 2 stone aggregate 6mm nominal size) by volume with which HARDCRETE hardening compound is mixed @ 2 litre HARDCRETE per 50 Kg. of cement or as per manufacturers specifications. This includes cost of cement slurry, but excluding the cost of nosing steps etc.complete.	835	SQ.M	166.89	139354.82
13.37.1	20	Providing WHITE WASHING with LIME to given an even shade on new work (three or more coats) .	2820	SQ.M	6.75	19035.00
13.62.1	21	Providing and Painting with Synthetic enamel paint of approved brand and manufacture to give an even shade for two or more coats on new work.	300	SQ.M	51.30	15390.00
13.1	22	Providing 12mm thick CEMENT PLASTER (including providing necessary plaster grooves wherever required), of mix:				
13.1.2	22A	1:6 (1 cement: 6 fine sand)	2850	SQ.M	49.00	139655.70

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13.63.1	23	Providing and Painting with ALUMINIUM PAINT of approved brand and manufacture to give an even shade for two or more coats on new work.	1050	SQ.M	28.60	30030.00
13.2	24	Providing 15mm thick CEMENT PLASTER (including providing necessary plaster grooves wherever required and for all exterior height) on rough side of single or half brick wall, of mix: 1:6 (1 cement : 6 fine sand)	2820	SQ.M	56.28	158698.32
13.46	25	NEW WORK (two or more coats applied @ 1.67 ltr/10 sqm) over and including base coat of water proofing cement applied @ 2.2 kg/10 sqm.	2820	SQ.M	50.40	142128.00
15.3	26	DEMOLISHING RCC WORK manually/ by mechanical means including stacking of steel bars and disposal of unserviceable materials within 50 m lead.	5	CU.M	537.55	2687.75
15.7.4	27	DEMOLISHING BRICK WORK manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable materials within 50 m lead, in cement mortar .	10	CU.M	310.75	3107.50
15.2.2	28	DEMOLISHING CEMENT CONCRETE manually/ by mechanical means including disposal of material within 50 meters lead:1:4:8 or leaner mix	5	CU.M	226.90	1134.50
15.17.1	29	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:	3000	CU.M	0.50	1500.00
15.28	30	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of:				
15.28.2	30A	Asbestos cement sheets	50	SQ.M	11.75	587.50
1.1.1	31	Carriage of materials by mechanical means including loading, leading, unloading, stacking spreading etc., such as lime, moorum, building rubbish. UPTO 2.00 k.m.	100	CU.M	56.41	5641.00

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		lead.				

TOTAL ESTIMATED VALUE 30,11,759.01

CONTRACTOR TENDER PERCENTAGE @ ABOVE / BELOW / AT PAR \_\_\_\_\_%

(Percentage in words )

TOTAL VALUE OF WORK

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