



**BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM::HYDERABAD::32
FACTORY CIVIL ENGINEERING DEPARTMENT**

SCHEDULE- A

Tender Notice No:

HY/FCD/OT- 29/2010-11 , Dt:- 07.03.2011

PRICE BID

Item no : 1

Name of work: Modification - Providing Galvalume sheet Roofing & fencing works and Black Topping works etc. for Boiler house.

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
1a	Earth work in excavation in all soils by mechanical means (Hydraulic Excavators) / manual means in foundations trenches or drains (not exceeding 1.5m in width or 10 Sq.M 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.	207.00	Cu.m	103.40	21403.80
1b	----do---- up to First additional depth of 1.50 M to 3.00 M.	10.00	Cu.m	122.30	1223.00
2	Earth work in excavation by mechanical means (Hydraulic Excavators) / manual means over areas (exceeding 30 cm in depth , 1.5 m in width as well as 10 Sq.M on plan) including disposal of excavated earth , lead upto 50 m and lift upto 1.5 m, disposing earth to be levelled and neatly dressed for Hard Rock (Blasting prohibited).	50.00	Cu.M	325.25	16262.50
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering including consolidation by vibrations for all works up to plinth level with 1:4:8 (1 cement : 4 coarse sand:8 graded stone aggregate of 20 mm nominal size)	13.00	Cu.M	2449.00	31837.00
4	Providing and laying in position specified grade, of Reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - all work up to plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) -	30.00	Cu.M	3359.60	100788.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
5	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement, including consolidation by vibrations for all works up to plinth level with 1:1½ :3 (1 cement :1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size).	20.00	Cu.M	3732.00	74640.00
6	Filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidation each deposited layer by ramming and watering, lead upto 50.00 m and lift upto 1.50 m.	192.00	Cu.M	45.70	8774.40
7	Conveyance of excavated spoil up to a lead of 2 Kms, including loading , unloading and spreading etc. complete as directed by Engineer-in- charge.	50.00	Cu.M	56.41	2820.50
8	Granolithic topping of 25 mm thick using 1 cement 1 granite chips of 10mm down graded laid over base concrete when it is green conditions and ironite finishing 12mm thick using a mix of 50Kg of ironite , 200 Kg of cement and 0.30 Cu.m of granite metal 6mm down graded including cost of form work , curing etc. complete.	22.00	Sq.M	485.00	10670.00
9	Reinforcement for R.C.C. work including straightening , cutting , bending , placing in position and binding grills with binding wire all complete by cold twisted bars.	1.00	MT	42700.00	42700.00
10	Centering and shuttering including strutting, propping etc; and removal of form work, for columns, pillars, peirs, abutments, machine foundations, posts and struts.	40.00	Sq.M	180.40	7216.00
11	Grouting with cement mortar 1:1 including cost of all materials , labour,curing, for all leads and lifts etc; complete.For pockets	1.00	Cu.M	6016.56	6016.56

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
12	Fabrication of structural steel work including all materials going into the process of fabrication and forming an integral part of steel work together with all shop and site rivets and electrodes for site welding as necessary and all site connections comprising sag rods, floor beams, girders, bracings, trusses and frame work for fixed false ceiling and for movable false ceiling, purlins with channel / angles, MS flat supports including all connections as per detailed drawings connected steel works etc., cleats, gusset plates, all bolts, nuts, washers, base plates, anchor bolts as per detailed drawings, cutting, welding and painting 2 coats of red-oxide primer before erection etc., complete. The rate shall include painting 2 coat of Red-oxide as per IS specifications and all charges for handling, leading and loading at the fabrication yard. The raw structural steel sections, electrodes, gasses will be issued by BHEL on FREE of cost at their stores	13.00	MT	7563.80	98329.40
13	Erection of Steel work out lined in item No.19 above including the charges for handling, leading and stacking at site at approved locations prior to erection including all site rivetting, bolting, jointing and site welding where ever required.	13.00	MT	3241.60	42140.80
14	Painting at site of all structural steel work with 2 coats of aluminium paint / synthetic enamel paint of approved shade to trusses, columns, girders, bracings etc., with aluminium paint or synthetic enamel paint as required etc., complete. The required paint only will be issued free of cost by B.H.E.L at their stores.	45.00	MT	596.50	26842.50
15	Fabrication and fixing inserts in concrete wall with lugs of required dia welded to the insert plates.(St. Steel,electrodes and gas required for work will be issued on free of cost by BHEL at their stores)	1.00	MT	3500.00	3500.00
16	Supplying and fixing of Tracdek Hi-rib single skin bare galvalume / Zinalume sheets of 0.5 mm thick. One Meter width and length upto 12 M with Factory cut and fixing to the roof shall be crest fixed to roof purlins with number 12-14 x 55 mm long polymer coated galvanized hex-head self drilling screws with integral washers and EPDM seals (4 fasteners for per support) for sheet etc., compete as directed. (including cost of galvalume sheets). - for louvers and cladding (colored)	700.00	One Sq.M	672.40	470680.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
17	Supply and fixing of top fixed, side hung of NCL Seccolor Ajantha windows & Ventilators fabricated from Roll formed section made of pre painted steel (Base steel as per IS 513 of 0.6 mm thick, 'D' quality, galvanized as per IS 277 with zinc 120 GSM / Sq. Mtr). Section for shutter should be of 46 x 46 mm, external frame should be of 46 x 52 mm, section for glass beading should be of 18 x 25 mm & center mullion should be 46 x 70 mm. The sections to be cut to length, meter joined with corner bracket. Centre mullions are to be fixed using mullion cap. Handle made of high grade aluminium powder coated & with nylon receiver & glazed with 5 mm thick, Modi/Saint Gobain float glass. Gasket made of E.P.D.M. Corner brackets made of C.R.C.A with zinc phosphating. Million caps made of glass filled nylon. The above frames should be fixed to the concrete / masonry walls by means of self expanding screws. Approximate size of windows 1.30mx0.9m and 3.00mx2.10m -Double shutter without guard bars(grills)... Excise duty/VAT inclusive .Service tax extra as applicable.	12.00	Sq.m	4046.00	48552.00
18	Providing and fixing 2 mm thick polycarbonate sheets and anadoised aluminium glazing bars together with accessories complete for North light glazing including cost of all materials, labour etc., complete.	40.00	Sq.m	2266.15	90646.00
19	Applying two coats of oil bound distemper of given shade over a coat of primer including through cleaning of the surfaces, cost of all labour and other incidentals. (Only OBD, OBD Primer Paint will be supplied by BHEL)	2500.00	Sq.m	29.00	72500.00
20	Applying exterior emulsion paint 2 coats over one coat of primer to external new plastered surfaces including cost of all labour and other incidentals. (only exterior paint will be issued by BHEL on free of cost).	2520.00	Sq.m	20.55	51786.00
21	Supply & fixing 80 mm dia Nominal Bore GI pipe medium Grade properties and weight as per IS 1239 ISI mark with GI fittings including the cost of GI pipe & its fittings, chasing brick work/concrete and making good the same ,cost of labour, all materials	160.00	RM	458.15	73304.00
22	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee,including cutting and threading the pipe etc. complete for 80 mm nominal bore.	1.00	NOS	423.20	423.20

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
23	Supply and fixing 80mm dia C.I. sluice valves CI D/F Sluice valves conforming to IS 14846/2000 PN 1.0 with amendments No. 1&2 heavy duty with CI grade FG 260 as per IS: 210. Two coats of primer suitable for EPOXY PAINTS finish shall be applied to all metal surface and finally two coats of Epoxy Paint. The Valves shall be tested for (closed end Test) against Hydrostatic test requirement. The rates are including transportation charges excluding Central Excise duty and sale tax etc.,The operation can be done with hand wheel/cap. ISI Marked.	1.00	NOS	4298.00	4298.00
24	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire 9.38 kg per 100 m between the two posts fitted and fixed with GI staples, turn buckles etc complete. (cost of posts, struts, earth work and concrete work to be paid for separately):-payment to be made per meter cost of total length of barbed wire used with GI Barbed wire	3300.00	RM	8.45	27885.00
25	Dismantling brick masonry/CRS Masonry walls for all heights, removing and clearing the debris and carting away upto to lead of 2 KM including loading, unloading and spreading segregating useful materials as directed by Engineer-in-charge including the cost of all labour, scaffolding etc., complete.	10.00	Cu.m	355.88	3558.80
26	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc complete and stacking within 50 m lead of area 3sq meters and below.	20.00	each no.	54.60	1092.00
27	Dismantling Roofing including ridges, hips, valleys and gutters etc and stacking the material within 50 m lead of G.S. Sheet.	20.00	Sq m	24.70	494.00
28	Dismantling steel work in built up sections in angles tees, flats and channels including all gusset plates, bolts, cutting rivets, welding etc., including dismembering and stacking within 2kms lead.	15.00	One MT	890.11	13351.65
29	Removing of corrugated / semi corrugated, A.C sheets including North Light curves barge boards etc., in roof, sides, gable ends, louvers, ridges, hips, valleys, gutters etc. etc., and stacking the materials carefully for re-use wherever required.	40.00	One Sq.M	41.60	1664.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
30	Dismantling reinforced cement concrete / plain cement concrete and disposing of debries upto to a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.	35.00	Cu.m	582.68	20393.80
31	Felling trees of the girth (measured at a height of 1m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable materials and disposal of unserviceable materials - upto 1.20 M	5.00	Each	359.80	1799.00
Total Value of work				Total Rs:	13,77,591.91
Total : Rs.Thirteen lakhs seventy seven thousand five hundred ninty two only.					

Service Tax:- The Service tax as applicable is extra which will be paid by BHEL to the agency after submission of necessary valid documents by the agency.

Note : The bidders are required to quote the tender value on percentage (%) basis at excess or less on par with estimate value

Tender %	In figure	In words
Excess		
Less		
Estimated value		

Name of the Contractor :

Signature of the Contractor

Accounts Representative

Opening officer