



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

SCHEDULE- A

PRICE BID

Tender Notice No:

HY/FCD/OT-08/2012-13, Dt: 07.07.2012

Item no.: 4

Name of work: Miscellaneous works in 02 super bay.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
1	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 etc. complete as directed by Engineer-in-charge.	14.00	Cu.m	103.40	1,447.60
2	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)etc. complete as directed by Engineer-in-charge.**	37.90	Cu.M	1,641.30	62,205.27
3	Centering and shuttering including strutting, propping etc.; and removal of form work, for columns, pillars, piers, abutments, machine foundations, posts and struts etc. complete as directed by Engineer-in-charge.	75.00	Sq.m	180.40	13,530.00
4	Brick work with clay fly ash bricks of class designation 75 in superstructure above plinth level up to ground floor in all shapes and sizes in cement mortar 1:6 etc. complete as directed by Engineer-in-charge.**	32.84	Cu.M	1,808.00	59,374.72
5	Plastering in CM 1:6 , 20 mm thick to internal and external surfaces of walls including the cost of all materials, labour, curing etc. complete -Upto 10.00 M level etc. complete as directed by Engineer-in-charge.**	2,677.00	Sq.m	65.80	1,76,146.60
6	Supplying and fixing of Tracked Hi-rib single skin 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 per support) for sheet etc., compete as directed. (Including cost of galvalume sheets). - for roofing bare galvalume etc. complete as directed by Engineer-in-charge.	60.00	Sq.m	545.90	32,754.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
7	Supply & fixing of full height aluminium door with double leaf manual slide opening mechanism at main entrance in required size made out of anodised aluminum box section of size 44.50x47.50x2 mm for verticals, top and middle rails and 101.60x44.50x2 mm for bottom rail inclusive of supply & fixing of all aluminium fixtures and fittings suitable to the door sliding mechanism, handles, suitable locking arrangement etc. complete, wherever members are joined wooden runners are to be inserted in the box section. This includes grouting of rails/aluminum sliding sections to the floor properly etc. complete as directed by Engineer-in-charge. Providing and fixing of 12 mm toughened glass with rubber beading with screw less snap on clips etc. for top portion of the door frame of approximate size 3' x 2.5' on each door leaf and 12 mm thick "Novapan" particle board, exterior grade, laminated on both sides fixed to bottom portion of the door frame of approximate size 3' x 4.5' on each door leaf with rubber beading, screwless snap on clips etc. complete. (No. of door -1, door leaf - 2 Nos.and the approximate size of the door is 1.8x2.4 m - 2 Nos. & 1.2x2.1 m - 2 Nos etc. complete as directed by Engineer-in-charge.	25.00	Sq.m	4,000.00	1,00,000.00
8	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 dutss snap on clips etc. complete. (No. of door -1, etc. complete as directed by Engineer-in-charge	15.00	Sq.m	4,046.00	60,690.00
9	Supply and fixing of aluminum window grills of size 1.50 Mx1.80M approx. and 1.20 mx1.80M approx. . along with aluminium frame consisting aluminium 'F' (solid) 0.80kg/12' supply and fixing of design of 2" aperture aluminium grill to the above frame work with necessary fixtures. It includes fixing of total frame to the existing brick work, finishing etc. complete. (The material shall be aluminium alloy :6063, thick 7 mm, ultimate tensile strength more than 19 kgs/sq.mm) etc. complete as directed by Engineer-in-charge	15.00	One Sq.m	1,540.00	23,100.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
10	Supplying and fixing plain PVC pipe of 200 mm dia of approved quality with specials, accessories and approved sealing /jointing compound on the exterior of the inserted portion of the fitting and fixing in position and joining to MS gutters, including cost of all materials, sealing compound, labour etc., for all heights etc. complete as directed by Engineer-in-charge.	75.00	RM	640.17	48,012.75
11(a)	Supplying, laying and jointing 80 mm nominal bore GI pipe medium grade properties and weight as per IS 1239, ISI marked with GI fittings, including cost of pipe and its fittings, labour charges, testing, etc. complete as directed by Engineer-in-charge.	310.00	RM	458.15	1,42,026.50
b	-----do -----for 40 mm dia GI pipe.	110.00	RM	458.15	50,396.50
c	-----do -----for 25 mm dia GI pipe.	40.00	RM	458.15	18,326.00
12	Casting and placing in position of R.C.C cable trench covers of 75 mm thick in mix of 1:1.5:3 using 20 mm down graded metal including cutting, welding of Angle iron frame, cost of MS reinforcement as specified including cutting bending , binding wire, spreading of Ironite powder at 2 Kg / Sq.m, neat finishing ,cost of labour, etc. complete as directed. (MS angles, electrodes only will be issued on free of cost by BHEL at their stores) etc. complete as directed by Engineer-in-charge.**	65.00	Sq.m	184.00	11,960.00
13	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) etc. complete as directed by Engineer-in-charge.**	5.07	MT	3,500.00	17,752.00
14	Providing and placing on terrace (at all floor levels) of polyethylene water storage tank of 1000 ltrs capacity with double layer approved brand and manufacture as per ISI with cover and suitable locking arrangement and making necessary holes for inlet and outlet and overflow pipes with fittings (ballcock, inlet and outlet nipples) without base support for tank. (Brick work will be paid separately) etc. complete as directed by Engineer-in-charge.	2.00	Each	6,000.00	12,000.00
15	Applying two coats of oil bound distemper of given shade over a coat of primer including thorough cleaning of the surface, cost of all labour and incidentals.(Only OBD, OBD Primer paint will be supplied by BHEL) etc. complete as directed by Engineer-in-charge.**	2,640.00	Sq.m	29.00	76,560.00
16	Dismantling reinforced cement concrete / plain cement concrete and disposing of debris upto a lead of 2 Km including loading, unloading and spreading as directed by Engineer-in-charge etc. complete.	9.00	Cu.M	582.68	5,244.12

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
17	Dismantling brick masonry walls for all heights, removing and clearing the debris and carting away upto a 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 as directed by Engineer-in-charge.	3.00	Cu.M	355.88	1,067.64
18	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 etc. complete as directed by Engineer-in-charge.**	1.50	M.T	4,003.00	6,004.50
19	Fabrication of structural steel work including all materials a) 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 etc. complete as directed by Engineer-in-charge.**	6.20	MT	7,563.80	46,895.56
19	Erection of Steel work out lined in item No.1 above b) including the charges for handling, leading and stacking at site at approved locations prior to erection including all site riveting, bolting, jointing and site welding where ever required etc. complete as directed by Engineer-in-charge.	6.20	MT	3,241.60	20,097.92
19	Painting at site of all structural steel work with 2 coats of c) 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 etc. complete as directed by Engineer-in-charge.	4.80	MT	596.50	2,863.20
20	Supplying fixing of MS double doors of Shakti make as per the specification attached etc. complete as directed by Engineer-in-charge.	3.15	Sq.m	6,799.85	21,419.53
21	Fabrication and erection of MS gate as per design with structural steel. (Only the raw structural steel will be issued free of cost by BHEL at their stores) etc. complete as directed by Engineer-in-charge.**	4.20	Sq.m	1,145.00	4,809.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
22	Supply and fixing glazed steel windows and ventilators of approved make including supply and fixing 4 mm thick plain glass with best quality putty. MS handles and peg stays including painting with two coats of synthetic enamel paint over one coat of red oxide paint including supplying and fixing weld mesh 50 x 50 mm (8G x 8 g). The window section and fabrication shall confirm to I.S. 1038 etc. complete as directed by Engineer-in-charge.	7.20	Sq.m	1,114.00	8,020.80
	Total			₹	10,22,704.21
	Add increase in Vat 1% over the material cost (70% of contractor scope)			₹	7,158.93
	Total value of work			₹	10,29,863.14
Total : ₹ Ten lakhs twenty nine thousand eight hundred sixty three and fourteen paise only					

Note: ** Cement, structural steel/MS reinforcement steel, paints will be issue by BHEL on free of cost at their stores.

1	A penalty of 0.5% of the gross value of work will be levied for every week's delay of work subject to a maximum penalty of 10% of the gross value of work.
2	Service tax is extra as applicable, which will be reimbursable to the agency on production of paid proof documents.
3	The rates are inclusive of all taxes and duties.

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

Tender %	In figure	In words
Excess		
Less		
Estimated value		

Name of the Contractor :

Signature of the Contractor