



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-05/2012-13, Dt: 31.05.2012

PRICE BID

Item no.:4

Name of work: Modification of new Rotor winding hall at EM shop-Civil works inclusive of laying of rails.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
1	Dismantling reinforced cement concrete / plain cement concrete including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.	27.00	Cu.m	582.68	15,732.36
2	Dismantling aluminium /gypsum partitions, doors windows, removal of 5.5 mm thick glass, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material within lead of 50m as directed by Engineer-in-charge.	10.00	Sq.M	220.80	2,208.00
3	Dismantling brick 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.	11.00	Cu.m	355.88	3,914.68
4	Dismantling the existing wooden / aluminum partitions etc. complete as directed by Engineer-in-charge.	8.00	Sq.M	222.80	1,782.40
5	Dismantling steel work in built up sections in angles tees, flats and channels including all gussset plates, bolts, cutting rivets, welding etc., including dismembering and stacking within 50 meters lead etc. complete as directed by Engineer-in-charge.	8.00	MT	890.11	7,120.88
6	Dismantling of GI pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/mechanical means including stacking of pipes within 50metres lead as directed by Engineer-in-charge. - 15 mm to 40mm nominal bore etc. complete as directed by Engineer-in-charge.	35.00	RM	24.90	871.50
7	Supply & fixing 15 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 and its fittings, chasing brick work/concrete and making good the same, cost of labour, all materials etc. complete as directed by Engineer-in-charge.	76.00	RM	131.00	9,956.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
8	Supply & fixing in position PVC Pipes of 4" dia (as per IS 6kg/sq.m) of best quality for drainage lines / urinal / hand wash areas including chasing the brick wall, concrete etc. and making good the same after fixing the same etc. complete as directed by Engineer-in-charge.	20.00	RM	348.00	6,960.00
9	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. (Cement will be issued by BHEL on free of cost)	53.00	Cu.m	1,641.30	86,988.90
10	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 as directed by Engineer-in-charge. (Cement will be issued by BHEL on free of cost)	36.00	Sq.M	244.50	8,802.00
11	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.	1.08	MT	4,002.00	4,322.16
12	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.	8.00	Sq.M	180.40	1,443.20
13	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 etc. complete as directed by Engineer-in-charge.	0.32	M.T	7,563.80	2,420.42
14	Erection of Steel work out lined in item No.13 above 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 wherever required etc. complete as directed by Engineer-in-charge.	0.32	M.T	3,241.60	1,037.31

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
15	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 etc. complete as directed by Engineer-in-charge.	0.32	M.T	596.50	190.88
16	Fabrication and fixing inserts in concrete wall with lugs of required dia welded to the insert plates. (Structural 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.	0.80	MT	3500.00	2,800.00
17	Supply and aluminium partition with new anodised box - section of size 101.60 X 44.45 X 2 mm for verticals, Top & Horizontal and 63.50 X 38.10 X 2 mm for intermediate horizontal at spacing suiting to the site requirements as approved . Wherever doors are coming wooden runners are to be provided into box section. This includes grouting of the frame to the floor properly fixed at ends to walls, cost of aluminium section , labour etc.; Complete. (The door opening shall be deducted for payment) etc. complete as directed by Engineer-in-charge.	10.00	Sq.M	1,316.00	13,160.00
18	Supply & fixing 5.5 mm thick plain / ground glass to the aluminium frame with rubber beading screw less snap on clips etc. complete as directed by Engineer-in-charge.	10.00	Sq.M	557.35	5,573.50
19	Brick work with FPS 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. (Cement will be issued by BHEL on free of cost)	8.00	Cu.m	2,104.00	16,832.00
20	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. (Cement will be issued by BHEL on free of cost)	79.00	Sq.M	65.80	5,198.20
21	Supply and fixing 9 mm thick pre-laminated particle board both side laminated exterior grade fixed to frame with rubber beading screw less snap on clips etc. complete as directed by Engineer-in-charge.	6.00	Sq.M	534.00	3,204.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
22	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 & 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, screw less 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.	11.00	Sq.M	4,000.00	44,000.00
23	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.	3.00	Sq.M	184.00	552.00
24	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, 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 (1cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 Kg per Sq.m including pointing in white cement mixed with pigment of matching shade etc. complete as directed by Engineer-in-charge.	10.00	Sq.M	556.60	5,566.00
25	Supply & fixing "Marc" make oyster series brass bib cocks. With all accessories / Cat: MOY 1030 etc. complete as directed by Engineer-in-charge.	4.00	Nos	506.00	2,024.00
26	Polishing of the floor including grinding of the floor with floor grinding machine, removal of dirt, stains, oil patches etc. washing and polishing to a neat finish etc. complete as directed by Engineer-in-charge.	432.00	Sq.M	145.00	62,640.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
27	Supply and applying 3000 microns thick medium duty flooring of epoxy polyurethane (EPU basdee product) floor coat on concrete floor of approved shade and brand. The scope of work include surface preparation and application as directed by the manufacturer with a warranty of one year from the date of completion of work. The work should be carried through authorised application of Cipy products EPU coating should be carried after 2 month of completion of granolithic finish to ensure moisture free surface etc. complete as directed by Engineer-in-charge.	432.00	Sq.M	1,625.00	7,02,000.00
28	Fixing CR120 to 52 Kg rails for various gauges at floor level including fixing side guide angle etc., complete with necessary clamps required for fixing rails in position and alignment, leveling as per B.I.S 7215-1974. (M.S rails, M.S. Angles, Structural steel will be issued free of cost by BHEL at their stores).Including cost of clamps, bolts & nuts etc. complete as directed by Engineer-in-charge.	2.16	M.T	6,000.00	12,960.00
	Total			₹	10,30,260.39
	Add increase in VAT 1% over the material cost (70% of above value)			₹	7,211.82
	Total value of work			₹	10,37,472.21
Total : ₹ Ten lakhs thirty seven thousand four hundred seventy two and twenty one paise only					

Note:- For Cement consuming items other than RMC, BHEL will issue cement and steel 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