



BHARAT HEAVY ELECTRICALS LIMITED
 RAMACHANDRAPURAM, HYDERABAD-32
 FACTORY CIVIL ENGINEERING DEPARTMENT

Issued to agency:

SCHEDULE- A

Tender Notice No:

PRICE BID

HY/FCD/OT-15/2009-10 , Dt: - 24.10.2009

Item no : 02

Name of work : - Construction of New Rotor Winding Hall of Size 30 M X 24 M at 02 Block.

S. No	Description	Approx Qty	Unit	Rate in Rs	Amount (Rs)
1	Dismantling reinforced cement concrete / plain cement concrete and disposing of debris upto to a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.	100.00	Cu.m	582.68	58268.00
2a	Earth work in excavation in all soils by mechanical means (Hydraulic Excavtors) / 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.	45.00	Cu.m	103.40	4653.00
b	----do---- up to First additional depth of 1.50 M to 3.00 M.	45.00	Cu.m	122.30	5503.50
3	Providing and laying in position concrete of specified garde 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).	25.00	Cu.M	2449.00	61225.00
4	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).	170.00	Cu.M	3732.00	634440.00
5	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.	40.00	Cu.M	45.70	1828.00
6	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

S. No	Description	Approx Qty	Unit	Rate in Rs	Amount (Rs)
7	Centering and shuttering including strutting, propping etc; and removal of form work, for columns, pillars, piers, abutments, machine foundations, posts and struts.	500.00	Sq.M	238.40	119200.00
8	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.	6.00	M.T	42700.00	256200.00
9	Supplying and fixing of Tracdek 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 coloured galvalume	720.00	Sq.m	720.00	518400.00
10	Providing and fixing in true horizontal level 600 mm x 600mm false ceiling system manufactured by M/s. Armstrong World Industries using DUNE SUPREME RH 99 MICROLOOK EDGE WITH SILHOUETTE GRID, using hot dipped galvanized steel section, rotary stitched main tee of size 15mm x 42 mm web height, having 0.36 mm gauge at every 600 mm centre to centre maximum and rotary stitched cross tee of size 15 mm x 42 mm, having 0.33 mm gauge at every 600 mm. c/c. and wall angle of size 19 x 19 mm., having 0.35 mm gauge fixed to the periphery of the wall. The above grid is suspended at every 600mm c/c. in both directions using 2.0 mm. thick pre-straightened GI wire, and laying Dune Supreme Microlook Edge ceiling tiles manufactured by M/s. Armstrong World Industries, of size 600mmx600mmx15mm having NRC 0.50, Light reflectance of >85% (WT), thermal conductivity k = 0.052-0.057 W/m0K, Humidity Resistance of 99% (having LIFETIME GUARANTEE against SAG), having Fire Performance CLASS O / CLASS 1 (BS 476), surface having 3 coats of white paint - - crisp finely granulated with - CONTD	720.00	Sq.m	1130.00	813600.00

S. No	Description	Approx Qty	Unit	Rate in Rs	Amount (Rs)
	microperforations, back of the tile duly sanded and finished with a coat of protective paint over the formed grid and complete in all respects. Boards, where light fixtures to be fixed shall be handed over to Department. Make: Armstrong				
11	Finishing with Epoxy paint (two or more coats) of ASIAN or BERGER make at all locations prepared and applied as per manufactures specifications including appropriate priming coat , preparation of surface , cost of all materials etc; complete on concrete work.	1800.00	Sq.M	77.75	139950.00
12a	Fabrication of structural steel work including all materials going into the process of fabrication and forming and integral form 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 rate includes cost of electrodes, gasse etc., The raw structural steel sections will be issued FREE of cost at BHEL stores.	50.00	MT	8805.30	440265.00
b	Erection of Steel work out lined in item No.12 a 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.	50.00	MT	3773.70	188685.00
13	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.	50.00	MT	596.50	29825.00

S. No	Description	Approx Qty	Unit	Rate in Rs	Amount (Rs)
14	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).	800.00	One sq.m	1316.00	1052800.00
15	Supply & fixing 5 mm thick plain / ground glass to the aluminium frame with rubber beeding screwless snap on clips etc. complete	450.00	One sq.m	668.00	300600.00
16	Supply & fixing with new 8 mm thick particle board one side laminated of approved brand (Eco board) and shade for wall panelling on the above wooden frame work and also for window, cup board, Imets, podiums, counters, stools, racks, boxes etc. with necessary suitable fixtures like brass hinges, brass door handles, stoppers etc. complete as directed by Engineer Incharge. Doors shall be fixed by removing old plywood and fixing with new 4mm plywood. 1mm laminated sheet shall be fixed on both sides and faces of thickness of doors. Design and colour of the laminated sheet shall match with the wall panlling of Eco board. Locks will be supplied by BHEL and fixing shall be made by Agency. The rate quoted shall include cost of all labour, materials such as particle boards, wooden reapers, nails, screws, sliding rollers/bearings, fevicol etc. complete.	350.00	One sq.m	966.00	338100.00
17 a	Providing and fixing double leaf auto sliding glass doors in required size, with 12 mm thick toughened glass with auto door slide opening mechanism along with frosted film of "Birla 3M" make and specified design on glasses. Arrangement shall be such that on power failure, the doors shall be in 'open condition' complete in all respects. There shall be very little gap between fixed glass partition and auto sliding glass shutters. Providing and fixing of air curtain unit suitable to the above door opening including supply and fixing of aluminum powder coated air curtain jolly to the air curtain unit in false ceiling. Colour of the jolly shall be suitable to the Armstrong false ceiling boards. The total automatic sliding door consisting of two glass door shutters and air curtain. MAKE : DORMA	12.50	Sq.m	41300.00	516250.00

S. No	Description	Approx Qty	Unit	Rate in Rs	Amount (Rs)
17 b	---- do ---- (Optional)	12.50	Sq.m	41300.00	
17 c	Supply & fixing of full height aluminium door with double leaf manual slide opening mechanism 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 screwless 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.	12.50	Sq.m	4000.00	50000.00
18	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.	100.00	RM	458.15	45815.00
19	Dismantling Existing steel work in built up sections in angles tees, flats and channels including all guest plates, bolts, cutting rivets, welding etc., including dismembering and stacking within 50 metres lead and transporing upto a distance of 2KM..	55.00	One MT	890.11	48956.05

S. No	Description	Approx Qty	Unit	Rate in Rs	Amount (Rs)
20	Fabrication and fixing of M.S holding down bolts , threaded both sides including supply of nuts, washers etc., complete as directed. (M.S. rounds as per required size will be issued on free of cost at BHEL stores)	0.20	One MT	21050.00	4210.00
21	Dismantling brick masonry walls for all heights, removing and clearing the debries 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.	55.00	One Cu.m	355.88	19573.40
22	Dismantling the existing wooden / aluminum partitions /half height partitions if required into small units including removing doors and glass panes and stacking in stores, removing the old furniture, almirahs/records and any other items lying in the floor including transportation, loading & unloading, stacking in stores within 2 Kms lead as directed by Engineer-in-charge.	1081.00	Sq.m	75.00	81075.00
23	Dismantling aluminium /gypsum partitions,doors windows,fixed glazing and false ceiling including disposal of unserviceble surplus material and stacking of serviceble material within lead of 50m as directed by Engineer-in-charge.	171.00	Sq m	8.65	1479.15
24	Removing of AC sheets carefully from Factory blocks & ceiling along with J bolts,nuts etc., steel cablins, cycle sheds etc, transportation & stacking at BHEL stores.	1060.00	Sq.m	43.65	46269.00
25	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.	5.00	Cu.M	2357.40	11787.00
26	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.	100.00	Sq.m	95.10	9510.00

S. No	Description	Approx Qty	Unit	Rate in Rs	Amount (Rs)
27	Supplying and fixing aluminum door with single shutters made out of new anodised aluminum box section of size 44.50x 47.50x 2.00mm for verticals, top and middle rails and 101.60x44.50x2.00mm for bottom rail inclusive of supply and fixing of all aluminum fixtures and fittings such as handles 2 nos, 1 No of tower bolt 12mm dia 200mm long, 1 No of hydraulic door closure of IS specification , 3 nos of 4" long(100mm) but hinges, stopper 1 No and suitable locking arrangement etc. complete . Wherever members are joined wooden runners are to be inserted in the box section for taking hinges, tower bolts, handles, hydraulic door closure and providing necessary rubber beading for closing of door shutters all as directed by Engineer-in - charge. The rate shall include cost of door frame using aluminium box sections of size 101.60x44.50x2.00 mm. etc. complete all as directed by Engineer in charge .	9.00	Sq.m	2918.40	26265.60
28	Removing of 5.5 mm thick glasses from existing aluminium partitions and handing over to stores.	72.00	Sq.m	117.70	8474.40
29	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.	81.00	One sq.m	534.00	43254.00
30	Fixing of 90 Lbs/ yard rails(45Kg/m) with guide angle L75X75X6 for trolley track narrow gauge 2'-6".	15.00	MT	6000.00	90000.00
Total Rs.					5,969,281.60
Total : Rs. Forty Seven lakhs Sixty Five thousand and One hundred Fifty 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 Tenders are required to quote the tender value on percentage (%) basis at excess or less or on as per estimate value

Tender %	In figure	In words
Excess		
Less		
Estimated Rate only		

Name of the Contractor :

Signature of the Contractor

Accounts Representative

Opening officer