



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-23/2014-15, Dt: 06.09.2014

PRICE BID

Item no.:1

Name of work: Providing office accommodation for oil rigs assembly staff at AB bay of 51 block.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	Part A - Civil works.				
1	Dismantling the existing wooden / aluminium partitions/ particle boards/glass panes, into small units including removing doors, etc., transporting and stacking carefully for reuse, in the departmental stores complete. All as directed by the Engineer-in-charge.	80.00	Sq.m	102.98	8,238.40
2	Erecting dismantled wooden partitions /aluminium partitions in new locations including transporting from BHEL stores, making necessary modifications by planning, cutting etc., to suit new place, fixing of doors, glass panes etc., complete Rate shall include cost of all hardware materials like nails, screws, Fevicol etc., complete.	66.00	Sq.m	46.83	3,090.78
3	Fixing of 5 mm glass of plain/ opaque/ pin headed etc. with MS glazing clips and putty at all floors of the buildings. The rate quoted shall include removal of broken glasses, cleaning old putty etc. complete from the old windows / partitions at all heights of the buildings, as directed by Engineer in charge. (Only glasses will be supplied by BHEL on free of cost).	5.00	Sq.m	240.00	1,200.00
4	Supply and fixing 5.5 mm thick (Modi Float /Saint gobin glass) plain glass to the aluminium frame with rubber beading, screw less snap on clips etc., complete.	5.00	One Sq. m	553.35	2,766.75
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 above plinth level up to floor V level with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size).	7.00	Cu.M	2,002.00	14,014.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
6	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.(Reinforcement steel will be supplied by BHEL on free of cost at their stores)	0.56	M.T	4,003.00	2,241.68
7	Centering and shuttering including strutting, propping etc.; and removal of form work, for columns, pillars,peirs,abutments,machine foundations, posts and struts.	65.00	Sq.M	180.40	11,726.00
8	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.(Cement only will be issued on free of cost by BHEL)	25.00	Cu.M	2,104.00	52,600.00
9	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.(Cement only will be issued on free of cost by BHEL)	230.00	Sq.m	65.80	15,134.00
10	Cement Plaster to ceiling /walls with 12mm thick cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement : 3 fine sand) (Cement only will be issued on free of cost by BHEL)	45.00	Sq.m	59.00	2,655.00
11	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.	7.20	Sq.m	2,820.00	20,304.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
12	Supplying and fixing aluminum door with single/double 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 , tower bolt 12mm dia 200mm long, hydraulic door closure of IS specification , 4" long(100mm) but hinges, stopper 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 bedding 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 .	8.00	Sq.m	2,629.47	21,035.76
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. (Dismantled structures can be used.)	4.00	MT	7,109.97	28,439.88
14	Erection of Steel work out lined in item No.1 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.	4.00	MT	3,047.10	12,188.40
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.	4.00	MT	560.71	2,242.84

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
16	Fixing of colour coated aluminium zinc alloy coated metallic hirib profile sheet. The sheet 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., complete as directed by Engineer-In-Charge. Old Zinc alloy coated metallic hirib sheets shall be issued free of cost at BHEL stores.	48.00	Sq.M	67.78	3,253.44
17	Fabrication and fixing inserts/MS angles 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)(Dismantled materials can be used)	0.50	MT	3,153.50	1,576.75
18	Supplying and laying of vitrified tiles of brighter shades and marble design of Premium Quality (1st quality) in required texture, design and colour, for flooring /skirting /cladding using vitrified tiles of size 600 x 600mmx8 mm thick of approved make. The cost of Tils shall be Rs.65.00 per Sft. It includes cost of cutting, champering of tiles to required size, with base of Conmax C - 500 tile adhesive for fixing tiles on existing mosaic/cement flooring, jointing the tiles with colour tint etc. complete as directed by Engineer-in-charge. The rate quoted shall include cost of all materials, labour, adhesives, colour tint material, leads and lifts etc. complete. Amount will be paid on the basis of measurement of the area of finished work only. It also includes surface preparation of existing ceramic floor giving necessary slopes, cleaning joints and grouting joints with pigmented additives to match shade of the tile, making pockets for electrical, communication, network cables etc. complete as directed by Engineer-in-charge. Amount will be paid on the basis of measurement for finished work only.	50.00	Sq.m	893.00	44,650.00
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)	310.00	Sq.m	27.26	8,450.60

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
20	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 micro perforations,	35.00	Sq.m	1,062.20	37,177.00
	Total part A			₹	2,92,985.28
	Part B- Electrical Works				
1	WIRING Supply & Installation of surface/concealed point wiring FRLS using 600v grade 1.5 SQ.MM copper conductor PVC insulated wires (with proper R,Y,B color code) pulled through 1.2mm thick PVC conduits laid concealed over false ceiling or in wall chases including 1.0 SQ.MM green color copper earth wire and provision of grid plate type switches as approved by architect, complete in all respects. Primary light points of 5A switch. (Switch shall be of ROMA Type).	24.00	Each	1,021.78	24,522.72

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
2	Supply and laying of 2 runs of 2.5 SQ.MM. PVC insulated copper conductor FRLS cable along with 1run of 1.5Sq.mm PVC insulated copper conductor cable. Run in a 19mm dia. 1.2mm thick PVC conduit on surface of the ceiling or in wall. Make: Fin Cab/Finolex	200.00	R M	135.36	27,072.00
3	Supply and installation of 6A, 5 pin 4 nos. shuttered type sockets controlled by 1no. 16A switch with suitable size of front plate etc. for computers. Location of the points will be finalised in consultation with engineer in charge, complete in all respects. Make: ROMA OF ANCHOR/North West/Crabtree	13.00	Each	1,458.88	18,965.44
4	Supply and installation of one no 6A/16A 5pin shuttered type sockets controlled by 1no. 16A switch with suitable size of front plate etc. (RAW POWER set) Make: ROMA OF ANCHOR/North-West/Crabtree	7.00	Each	864.80	6,053.60
5	Supply and installation of Energy efficient light fitting of Energy efficient light fitting of Philips FBS 450/236 D6 HF wing- C Lx recessed mounted direct indirect high efficiency, dimmable balasts & enhanced aesthetics luminaire for 2 x PLL 36W/865 complete with all accessories with PLL 36W/865 CFL Lamps, which includes material handling, assembling and testing of all fittings and match to the Armstrong false ceiling.	12.00	Set	4,100.00	49,200.00
6	Supply & installation of ceiling fan 1400 mm sweep (56") double ball bearing type, ISI mark, white colour with all standard accessories including fan hook, down rod, clamps and connecting it up to the fan point with suitable length of 16/02 mm PVC insulated twin twisted copper conductor cable. Make: Bajaj / Orient.	8.00	Set	1,580.00	12,640.00
7	Supply and installation of energy efficient light fittings, T5 type 2x 28W industrial illumiare with 28E T5 lumiscient lamps. This includes supply and fixing of down rods, round blocks, connecting the copper twin twisted wire from ceiling rose to fitting and other accessories. Make:Crompton/Philips	16.00	Set	1,800.00	28,800.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
8	Supply and installation of MCB DB with TPN 415V, 4 way consisting of 10 to 20 amps- 4 nos MCBs on each phase with single door metallic cover, sheet enclosed, dust and vermin proof along with controlling 63 A 4 pole isolator switch fuse unit with HRC fuses, cable entry and reverse entry box, cable glands pvc making furreless, etc. it is to be concealed in the wall or as per site engineers instruction. The job includes labeling/ writing the connection chart inside the door with white DUCO paint as required, double earthing, testing and commissioning etc. completed as directed by Engineer in charge	1.00	nos.	6,500.00	6,500.00
	Total part B			₹	1,73,753.76
	Part C-IT Networking				
1	Supply, laying and termination of Cat 6 Giga speed - 4 Pair 23 AWG UTP Cable, with cross member pair separator complete as required. Each box contains 305 mtrs of UTP Cable. Make: Molex/Systemax/Legrand/Panduit	1.00	Boxes	7,567.00	7,567.00
2	Supply, installation and fixing of CAT 6 Giga speed Information outlets with single/dual face plate. Quantity of outlets are : 2 nos. at each work station/ record room/UPS room/Electrical room/Store room/VVIP Room / Near stairs for Bio-metric access points, 3 nos. in each half cabins/ PA to GM Cabins, 4 nos. in each senior executive cabin/SA to EDs cabin/ conference hall/ Printer room/ Discussion room/ Lobby/Tendering room, 5 nos. in GM Cabin / drafting rooms and 6 nos. in EDs Office Make: Molex/Systemax/Legrand/ Panduit	13.00	Each	329.00	4,277.00
3	Supply and termination of CAT-6 Jack pannel 24 port Make-D-Link/ Dig Link/ Legrand/ Panduit/ Systimax/ Tyco.	1.00	Each	4,050.00	4,050.00
4	Supply and laying/Fixing of 1" PVC pipe. Make: with ISI mark.	150.00	RM	23.00	3,450.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
5	Supply, installation and termination of approved make telephone outlets RJ 11jack with dual face plate. Quantity of telephone jacks are: 2nos. at each work stations, cubicles; 4 nos. each in all cabins of GM, AGMs, conference rooms, rooms of PAs; location of the outlets to be finalised in consultation with engineer in charge.	13.00	Each	434.00	5,642.00
	Total Part C			₹	24,986.00
	Grand Total part (A+B+C)			₹	4,91,725.04
	Add increase in Vat 1% over the material cost (70% of Above value)			₹	3,442.08
	Total Value of work			₹	4,95,167.12
Total : ₹ Four lakhs ninety five thousand one hundred sixty seven and twelve paise only					

Note:

1	A penalty of 0.50 % of the gross value of work will be levied for every week's or part thereof delay in execution of work by the agency, subject to a maximum penalty of 10 % of gross value of the total work executed.
2	The rates are inclusive of all taxes and duties except Service tax, which is extra as per service tax norms will be paid by BHEL to the agency after submission of necessary documents.

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		