



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-08/2013-14, Dt: 03.09.2013

PRICE BID

Item no.: 2

Name of work: Renovation of Compressor Test plant control rooms – Interior works, Civil, electrical, communication and IT networking.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	Part A - Civil works				
1	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. 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.	10.00	Sq.m	950.00	9,500.00
2	Supply and fixing of vertical blinds 100 mm in required colour along with channels, fabric bottom weights etc. complete. The basic cost of the blinds shall be in the range of Rs. 70/- per S Ft. The colour and design of the blinds will be selected by department within the specified cost. The agency shall procure the same.	17.00	Sq.m	800.00	13,600.00
3	Dismantling the existing wooden / aluminum partitions /half height partitions/False ceiling /wall paneling 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.	160.00	Sq.m	75.00	12,000.00
4	Dismantling the existing wooden / aluminium partitions into small units including removing doors, glass panes, etc., transporting, planing, cutting, and re-assembling of partitions , doors, glass panes etc., complete. Rate quoted shall include the cost of all materials required for reassembling such as nails, screws, fevicol etc. all as directed by the Engineer-in-charge.	9.00	Sq. m	222.80	2,005.20

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
5	Wall paneling: Supply & fixing with new 12 mm thick particle board one side laminated of approved brand (Eco board) and shade for wall paneling on the wooden frame work (treated with termite and moisture resistant chemical) and also for doors, windows, cup board sliding shutters, pelmets, boxes etc. with necessary fixtures like brass hinges, door handles and stoppers etc. as directed by Engineer-In-charge. The rate quoted shall include of cost of all labour, materials such as particle boards, Steam beige beading, nails, screws, sliding rollers/bearings, fevicol etc. complete. Supply and fixing of frame work with second class teak wood scantlings of size 50 x 25 mm as verticals and horizontals, at an interval of 60 mm c/c shall be made for fixing the Ecoboard. Joints and corners shall be covered with Steam beige beading of suitable sizes with malamine polish complete in all respects. Make : Eco board	75.00	Sq.m	1,600.00	1,20,000.00
6	Supply and erection of false ceiling: Providing and fixing in true horizontal level 600 mm x 600 mm 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 three coats of white paint - crisp finely granulated with 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	85.00	sq.m	1,130.00	96,050.00
7	Supply fabrication & fixing of false floor supporting structure and fixing the same in position and laying false floor panels at 300mm height and providing cut outs and using solid rod jacks, the jacks shall be pressured die cast zinc alloy of proper composition and will be fixed over jack bolts with fully threaded bright rod and Stringers of size (20mm x 40mm x 3.5mm). The frame shall be fully galvanized. Under Structure jack 20mm dia. Stringers 3.15mm thick Aluminium Zinc alloy jack head. PVC Laminated Tiles of access Floors - 1200 ESRG - HPL of 2 mm thick and 1mm thick High Pressure Antistatic Laminate.	65.00	Sq.m	5,738.00	3,72,970.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	Total of Part A			₹	6,26,125.20
	Part - B - Electrical Works.				
1	Supply & installation of recess mounted down lighter luminaries with spellar from reflector 2/18 WCFL cat no. Phillips make FBH 145/2/8 etc. complete as directed by Engineer-in-charge.	20.00	Each	2,000.00	40,000.00
2	Supply and installation of 400mm(16") Sweep Wall mounting fan with oscillation (Which includes assembling and testing of fan). White color, ISI mark, speed:1250 rpm with three blades, Supply: 230V, 50Hz, double ball bearing, heavy duty, low noise, white epoxy powder coated paint finish with bird guard & inbuilt regulator etc. complete as directed by Engineer-in-charge. Make : Orient/Usha/Crompton/Rallifan.	6.00	Each	2,350.00	14,100.00
3	Supply, installation, testing & Commissioning of 1.5 TR Hi-wall Split room air conditioner along with electronic control with remote control pad, necessary cabling, DBs, switches, inclusive of all connected accessories etc, complete in all respects etc. complete as directed by Engineer-in-charge. MAKE: LG/VOLTAS/BATLIBOI/CARRIER/BLUE STAR	5.00	Each	25,000.00	1,25,000.00
4a	Copper piping with insulation between indoor and outdoor etc. complete as directed by Engineer-in-charge.	50.00	Each	690.00	34,500.00
b	Electrical wiring between outdoor and indoor etc. complete as directed by Engineer-in-charge.	60.00	Each	126.00	7,560.00
c	Drain Piping 25 mm	50.00	Each	103.00	5,150.00
d	Machine installation and commissioning (indoor & outdoor) including necessary civil works etc. complete as directed by Engineer-in-charge.	5.00	Each	3,450.00	17,250.00
5	Cable Raceways Supply, installation, testing & Commissioning of separate floor Raceways with covers & Cable Trays with suitable covers for all ratings of power supply points, both 230VAC and 415V AC Supply & Installation of 300x50x2.0mm GI ladder type Cable Tray with all accessories and supporting arrangement from ceiling or Wall complete in all respects etc. complete as directed by Engineer-in-charge.	20.00	RMT	661.00	13,220.00
6a	Supply & laying of PVC pipe of dia 25mm (1") 1.5mm guage for telephone cables including cost of all materials, labour charges etc. complete.	15.00	RMT	18.00	270.00
6b	Supply & laying of PVC pipe of dia 25mm (3/4") 1.5mm guage for telephone cables including cost of all materials, labour charges etc. complete.	15.00	RMT	15.20	228.00
7	Supply & fixing of 6A/16A plug point directly taken from DB for Pantry/geyser/zerrox/fridge/split AC units etc. complete as directed by Engineer-in-charge. Make:ROMA OF ANCHOR OR NORTH WEST.	8.00	Each	750.00	6,000.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
8	Supply and installation of one no 6A/16A 5pin shuttered type sockets controlled by 1no. 6A switch with suitable size of front plate etc. (RAW POWER set) etc. complete as directed by Engineer-in-charge. Make: ROMA OF ANCHOR.	35.00	Each	800.00	28,000.00
9	Supply and fixing of 25 Amps, 240V Box type mounting Double pole MCB and Heavy duty Plug & Socket with overload & short circuit protection of North-West make catalogue No. ACPU 6M-BTJ fixed on a suitable Modular type concealed box with suitable top cover for Split ACs etc. complete as directed by Engineer-in-charge.	5.00	Each	1,050.00	5,250.00
10	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 etc. complete as directed by Engineer-in-charge. Primary light points of 5A switch.	26.00	point	1,087.00	28,262.00
11	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 etc. complete as directed by Engineer-in-charge.	35.00	point	144.00	5,040.00
12	Supply and installation of end terminations for above mentioned cables, including compressed type brass glands, crimping type copper lugs, insulation tape etc. as required complete with earthing of glands in following sizes, complete in all respects etc. complete as directed by Engineer-in-charge. 4Cx120 Sq.mm copper	4.00	point	1,200.00	4,800.00
13	Supply & laying of 4C x 6 SQ.MM copper armoured cable etc. complete as directed by Engineer-in-charge.	5.00	point	517.00	2,585.00
14	Supply, Installation and commissioning of 8way SPNDB for electrical distribution having below mentioned switchgears, complete in all respects etc. complete as directed by Engineer-in-charge. 63A, DP, MCB as incomer - 1 No. 16A, SP, MCB outgoing (10KA) - 8 Nos.	2.00	point	3,400.00	6,800.00
15	Supply & laying of 4C x 16 SQ.MM Copper flexible cable.	100.00	RMT	900.00	90,000.00
16	Supply and installation of end terminations for above mentioned cables, including compressed type brass glands, crimping type copper lugs, insulation tape etc. as required complete with earthing of glands in following sizes, complete in all respects etc. complete as directed by Engineer-in-charge. 4Cx120 Sq.mm copper	4.00	Each	1,200.00	4,800.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
17	Supply and installation of copper wire/strips in following sizes etc. complete as directed by Engineer-in-charge. 14 SWG copper bare wire	500.00	RMT	50.00	25,000.00
18	Supply and installation of end terminations for above mentioned cables, including compressed type brass glands, crimping type copper lugs, insulation tape etc. as required complete with earthing of glands in following sizes, complete in all respects for 4C x 16 SQ.MM Copper flexible cable etc. complete as directed by Engineer-in-charge.	2.00	Each	650.00	1,300.00
Total of Part B				₹	4,65,115.00
Part C - IT Networking					
1	Supply of CAT-6 Information Out Let, Face Plate with Back box (D-Link) etc. complete as directed by Engineer-in-charge.	20.00	Each	275.00	5,500.00
2	Cat-6 UTP Cable (D-Link)	3.00	BOX (305 Mtrs in each box)	5,300.00	15,900.00
3	Supply of 1" PVC Pipe (For UP Link)	160.00	Mtrs	25.00	4,000.00
4	Supply of 2" PVC Casing and Capping	100.00	Mtrs	43.00	4,300.00
5	Supply of CAT-6 Jack panel 24 port. (Digi-Link)	1.00	No.	4,350.00	4,350.00
6	Supply of 6U Network Rack (Digi-Link)	1.00	No.	4,800.00	4,800.00
7	Laying of Cat-6 UTP Cable	915.00	Mtrs	6.00	5,490.00
8	Laying of 1" PVC Pipe	250.00	Mtrs	8.00	2,000.00
Total of Part C				₹	46,340.00
Total value of work (Part A+ Part B + Part C)				₹	11,37,580.20
Total : ₹ Eleven lakhs thirty seven thousand five hundred eighty and twenty paise only					

Note:

1	A penalty of 0.5% of the gross value of work will be levied for every week's delay of work or part there of 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.
3	If the offer quoted by the L1 agency is less than 10% of estimate value the agency shall submit the Bank guarantee for the difference amount between quoted value of L1 agency and (-)90% value of estimate value as Advance Security Deposit (ASD) to ensure that the agency to take up and complete the work awarded. This will be released after satisfactory completion of the work by the L1 agency at the time of final bill. The Advance Security Deposit is in addition to the Security Deposit (For Maintenance period) specified in NIT.

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		