



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-15/2013-14, Dt: 13.01.2014

PRICE BID

Item no 1

Name of work: Construction of foundation for CNC 6 axis insulation Taping machine – EM Block.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
1	Dismantling reinforced cement concrete / plain cement concrete and disposing of debries upto to a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete. All as directed by Engineer-in-charge.	2.00	Cu.m	1054.10	2,108.20
2	Dismantling 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 2 km lead.	1.00	MT	1616.80	1,616.80
3	Dismantling the existing structural steel work Carefully by loosening nuts, gas cutting as per the site conditions and re-erecting the same, suitably modifying by gas cutting, welding, drilling new holes, jointing the new members by welding or bolting etc., complete.	3.40	MT	5505.90	18,720.06
4	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.	5.00	Cu.m	641.75	3,208.75
5	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.	160.00	Sq.m	8.65	1,384.00
6	Fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required EPDM rubber/ Neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle. The rate includes the cost of Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, hold fasteners etc. The aluminium sections shall be used from the existing dismantled material.	160.00	Sq.m	512.00	81,920.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
7	Fixing glazing 4mm/5mm/5.5mm in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. The glass shall be used from the existing dismantled material.	36.00	Sq.m	238.00	8,568.00
8	Supply and fixing of 5.5 mm glass 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.	5.00	Sqm	553.35	2,766.75
9	Fixing 12mm thick prelaminated particle board in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as directed by engineer-in-charge. The Particle board shall be used from existing dismantled material.	125.00	One Sq. m	48.00	6,000.00
10	Providing and laying in position cement concrete of specified grade 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). Only cement will be issued by BHEL on free of cost at BHEL store.	1.00	Cu.M	1,560.50	1,560.50
11	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.	10.00	Cu.m	103.40	1,034.00
12	Providing and laying in position specified grade, of Reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - all work up to plinth level with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size). Only cement will be issued by BHEL on free of cost at BHEL store.	4.00	cu.m	1,641.30	6,565.20
13	Centering and shuttering including strutting, propping etc.; and removal of form work, for foundations, footings, bases of columns etc. for mass concrete- up to plinth level. All as directed by Engineer-in- charge.	11.00	Sq.m	119.25	1,311.75
14	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.(Only reinforcement steel will be issued by BHEL on FREE of cost at BHEL stores)	1.00	M.T	4,003.00	4,003.00
15	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)	6.00	Cu.M	2104.00	12,624.00
16	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)	50.00	Sq.m	65.80	3,290.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
17	Finishing with epoxy paint (Two or more coats) at locations prepared and applied as per manufacturer's specification including appropriate priming coat, preparation of surface etc. as directed by Engineer in charge.	396.00	Sqm	108.55	42,985.80
18	Grouting with ECMAS grout cement including cost of labour, tools, curing for all leads and lifts etc.; complete. For pockets (Grout cement will be issued by BHEL on free of cost at BHEL store)	1.00	Cu.m	200.00	200.00
19	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 BHEL stores)	5.00	MT	3500.00	17,500.00
20	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 will be issued by BHEL on FREE of cost at BHEL stores)	50.00	Sq.m	29.00	1,450.00
21	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 BHEL stores.	5.00	MT	7563.80	37,819.00
22	Erection of Steel work out lined in item No.21 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.	5.00	MT	3241.60	16,208.00
23	Painting at site of all structural steel work with 2 coats of aluminium paint / synthetic enamel paint of approved shade over a coat of red oxide 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 BHEL stores.	5.00	MT	596.50	2,982.50
24	Fixing CR120 to 52 Kg rails for various gauges at crane girder 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, Strl. steel, clamps, bolts & nuts etc. will be issued free of cost by BHEL at BHEL stores).	3.00	MT	10805.40	32,416.20

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
25	Providing and fixing in true horizontal level 600 mm x 600mm false ceiling system of approved make 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 of approved brand, 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 Fire Performance CLASS O / CLASS 1 (BS 476), surface having 3 coats of white paint - crisp finely granulated with micro perforations Make: Armstrong, Daikin	396.00	Sq.m	1130.00	4,47,480.00
26a	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkats, archi remove the existing window along with frames including chasing brickwork /concrete and stacking them as directed by Engineer-in-charge.	4.00	Each	54.60	218.40
26b	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.	4.80	Sq.m	3,000.00	14,400.00
27	LIGHTING FIXTURES Supply & Installation of lighting fixtures with lamps as per the details below including necessary hardware such as clamps, nuts, bolts, nails, screws and suspension rods as required for fixing the fixtures in position as directed by architect / consultant, complete in all respects. Supply & fixing of energy efficient light fitting of Philips FBS 450/236 D6 HF wing -C- LX recess mounted direct, indirect light efficiency. Make: Philips or Crompton Greaves or equivalent model as approved by Engineer-in-charge	50.00	Each	5,175.00	2,58,750.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
28	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. Wiring make: Finolex, Finecab, havells. Switch Make : Roma/ Crabtree Type	25.00	Each	1,087.00	27,175.00
29	Supply and installation of above for secondary light points looped from the above	25.00	Each	385.00	9,625.00
30	Supply, installation, testing and commissioning of 2.0 TR/1.80 TR Cassette AC comprising indoor unit, outdoor unit with electronic control panel and remote control pad, DB's, Switches, insulating copper piping between indoor and out door units, 25mm drain piping, all the internal wiring etc. complete in all respects. If required, brick pedestals / structural stands shall be provided. The rate includes cost of AC's, all accessories, internal wiring, pedestals, testing & commissioning, labour, transportation, leads and lifts, scaffolding, copper & drain piping etc. complete as directed by Engineer-in-charge. MAKE: LG/VOLTAS/BATLIBOI/ CARRIER BLUE STAR/ DAIKIN.	14.00	Each	57,000.00	7,98,000.00
	Total				18,63,890.91
	Add for VAT 1% of 70% of part A				13,047.24
	Total value of work			₹	18,76,938.15
Total : ₹ Eighteen lakhs seventy six thousand nine hundred thirty eight and fifteen 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.

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		