



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-14/2012-13, Dt: 14.08.2012

PRICE BID

Item no.: 2

Name of work: Modifications to Non finance area West side of first floor interiors-Civil, Electrical, communication and IT networking.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	Part A - Civil Works.				
1	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.	300.00	Sq. m.	75.00	22,500.00
2	Dismantling of old cement mortar plastering and disposing off upto a lead of 2 Kms lead of walls and ceiling including cost of scaffolding, labour etc. complete as directed by Engineer-in-charge.	10.00	Sq. m.	8.20	82.00
3	Dismantling and disposing off upto 2 Kms lead of reinforced cement concrete work such as slabs, floors, beams, columns etc. using pavement breaker, chipping hammer or other suitable tools etc. complete as directed by Engineer-in-charge. (Compressor Air pavement breaker will be supplied on hire basis).	1.00	Cu. m.	582.68	582.68
4	Brick work using 2nd class ground molded British standard bricks in CM 1:6, in super structure including the cost of all materials, labour, curing etc. complete as directed by Engineer-in-charge.**	5.00	Cu. m.	1,808.00	9,040.00
5	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 as directed by Engineer-in-charge.**	100.00	1 Sq. m.	65.80	6,580.00
6	Plain cement concrete 1:4:8 using 20mm and down graded granite stone metal including the cost of labour, all materials, curing etc., but excluding the cost of all form work, M.S. reinforcement and binding wire etc. complete as directed by Engineer-in-charge. (60% -20 mm size metal and 40% of 10 mm metal).**	3.00	1 Cu. m.	1,560.50	4,681.50

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
7	<p>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, nails, screws, sliding rollers/bearings, fevicol etc. complete. Frame work with second class teak wood scantlings of size 50 x 25 mm as verticals and horizontals, at an interval of 900 mm c/c shall be made for fixing the Eco board. Joints shall be covered with Steam Beige beading and corners shall be covered with corner Steam Beige beadings of suitable sizes with melamine finish complete in all respects etc. complete as directed by Engineer-in-charge. Make : Eco board</p>	300.00	Sq. m	1,600.00	4,80,000.00
8	<p>Supply and fixing of 12 mm thick toughened glass glazed single door shutter with door hardwares "Dorma / Ozone" make like floor springs, pivot patch fittings, bottom locks, 'D' Handles and providing with "3M" frosted film in required design etc. complete as directed by Engineer-in-charge. The above door shutter shall be fixed to the aluminium / wooden / glazed door frames of the cabins. The rate shall include cost of all materials, glass, door hardwares, frosted film, labour charges etc. complete as directed by Engineer-in-charge.</p>	20.00	Sq. m	10,000.00	2,00,000.00
9	<p>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 / M/s Daiken 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 center to center 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,</p>	300.00	Sq. m	1,130.00	3,39,000.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	<p>-ions 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 etc. complete as directed by Engineer-in-charge.</p> <p>Make: Armstrong</p>				
10	<p>Vitrified flooring: Supply and laying of vitrified tiles of brighter shades and required design of Premium Quality (1st Quality), in required texture and colour for floors/skirting/cladding using vitrified tiles of size 600x600 mm (± 5 mm), inclusive of cost of cutting, champering of tiles to required size, with base of Conmax C-500/equivalent tile adhesive for fixing tiles on existing mosaic/cement flooring, laying of tiles in required design with spacers or without spacers jointing the tiles with colour tint if required etc. complete as directed by Engineer-in-charge. The cost of the tile shall be Rs. 60/- per Sft. (inclusive of all taxes and duties) and tiles of required make will be selected by department within the above specified cost. 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. This includes making</p> <p>pockets for electrical, communication, network cables, junction boxes etc. complete in all respects etc. complete as directed by Engineer-in-charge.</p>	300.00	1 Sq. m.	950.00	2,85,000.00
				(HR Admn, Sl. No. 6 of Part A)	
11	<p>Full height glass partitions for cabins:</p> <p>Providing & fixing of Aluminum frame work using 50 x 50 x 1.2 mm box sections placed at approximately 600 mm c/c horizontally and vertically and forming a grid size of 600 x 600 mm. The frame work is to be adequately anchored in RCC slab for a firm support. Then fixing of 12 mm MDF board on both sides of Aluminum frame work upto the false ceiling level. Providing and fixing of 12 mm Toughened Glass in required size for partitions. The glass partition shall be provided with "3M" frosted film in required design. The joints of the glass partitions shall be flushed perfectly without any gaps and joints shall be filled with silicon compound. If necessary bottom of the glass shall be fixed in PVC sleeve, subsequently fixed into floor. The door opening shall be deducted for payment etc. complete as directed by Engineer-in-charge.</p>	150.00	Sq. m.	4,000.00	6,00,000.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
12	Supply & fixing of aluminium full/half height partitions with new anodised aluminium box section powder coated in required colour of size 101.60 x 44.45 x 2.00 mm for verticals, top and bottom horizontals at spacing suiting to the site requirements as approved. Wherever doors are coming wooden runners are to be provided in the box section. The rate shall include grouting of frame to the floor properly fixed to at ends to walls, supply & fixing of 12 mm toughened glass in required sizes, aluminium sections, labour, frosted film on glass with specified design and sizes etc. complete as directed by Engineer-in-charge. (The door opening shall be deducted for payment).	100.00	Sq. m	4,000.00	4,00,000.00
13	Supply & fixing of Roller blinds including channels, fabric etc. complete and the basic cost of the blinds shall be in the range of Rs. 125/- per S Ft. The colour and design of the blinds will be selected by department within the above specified cost etc. complete as directed by Engineer-in-charge.	50.00	Sq. m	1,500.00	75,000.00
14	Supply & fixing of false flooring: The access raised floor in required colour with point load of 3.6 KN/over 25 Sq. mm and UDL of 12 KN/Sq. m; panels manufactured from steel with lightweight cementations core in the size 600 x 600 x 35 mm. The bottom of the panel shall be embossed in hemispherical shape to give strength and flexural rigidity. The entire panel shall be finished with electro deposition of cathodic epoxy paint on the exposed surface for lifetime protection. The panel has to be placed on the pedestal made from all steel zinc plated construction. Pedestal assembly shall provide for easy adjustment of leveling and accurately align panels to ensure lateral restrain. Pedestal head shall be designed to avoid rattle or squeaks. The steel base plate of the pedestal shall be fixed on to the sub-floor with epoxy pedestal adhesive and/or mechanical fixing. An all-steel rectangular stringer system having prepunched holes at both ends to ensure correct alignment with pedestal heads should be applied etc. complete as directed by Engineer-in-charge.	10.00	Sq. m	4,650.00	46,500.00
15	Supply & fixing of Aluminium metal tiles powder coated in false ceiling suitable to the Armstrong false ceiling grid size under the roof mounted AC indoor units. Colour of the tile shall be matched with the colour of Armstrong boards etc. complete as directed by Engineer-in-charge.	10.00	Each	380.00	3,800.00
Total of part A				₹	24,72,766.18
Part B - Air Conditioning					
1 a)	Supply & erection of 1.8 TR / 2.0 TR Cassette AC comprising indoor unit, outdoor unit with electronic control panel and remote control pad, DB's, Switches etc. for mini conference hall and main conference hall complete in all respects etc. complete as directed by Engineer-in-charge. MAKE: LG/VOLTAS/BATLIBOI/CARRIER/BLUE STAR	10.00	Each	57,000.00	5,70,000.00
1 b)	Copper piping with insulation between indoor and outdoor	50.00	One RM	690.00	34,500.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
1 c)	Electrical wiring between outdoor and indoor	50.00	One RM	126.00	6,300.00
1 d)	Drain Piping 25 mm	100.00	One RM	103.00	10,300.00
1 e)	Machine installation and commissioning (indoor & outdoor) including necessary civil works.	10.00	Each	3,450.00	34,500.00
	Note: All out door Air conditioner units and compressor units shall be located on the terrace/on chajjas of the building, whichever is feasible.				
2	22 gauge	5.00	Sq. m	1,053.00	5,265.00
3	24 gauge	5.00	Sq. m	862.00	4,310.00
4	The acoustic lining in the duct using fiber glass with 26 g aluminum perforated sheet using GI nuts and bolts etc. complete as directed by Engineer-in-charge. 12.5mm thick	10.00	Sq. m	287.00	2,870.00
5	Providing Thermal Insulation with 25mm thick fiber glass crown 150mm covered with aluminum foil etc. complete as directed by Engineer-in-charge.	10.00	Sq. m	615.00	6,150.00
6	MS black coated Collar Dampers etc. complete as directed by Engineer-in-charge.	1.00	Sq. m	21,804.00	21,804.00
7	Main duct Volume control dampers made out of 18 gauge GI sheet etc. complete as directed by Engineer-in-charge.	1.00	Sq. m	12,075.00	12,075.00
8	Fire retardant flexible canvas connection etc. complete as directed by Engineer-in-charge.	2.00	Each	483.00	966.00
9	Condensate drain pipe of standard make PVC with insulation of 50mm dia etc. complete as directed by Engineer-in-charge.	20.00	One RM	115.00	2,300.00
10	Supply & fixing of Aluminium diffusers and dampers powder coated removable core type, 4-way. These diffusers shall be suitable for Armstrong false ceiling of grid size 600 mm x 600 mm and colour of the diffuser shall be matched with the colour of Armstrong boards etc. complete as directed by Engineer-in-charge.	5.00	Each	1,840.00	9,200.00
11	Supply & fixing of Aluminium diffusers with powder coated without dampers, removable core type 4-way return air Neck - 18" x 18", Outer 590 x 590 mm, Reflection - 30. These diffusers shall be suitable for Armstrong false ceiling of grid size 600 mm x 600 mm and colour of the diffuser shall be matched with the colour of Armstrong boards etc. complete as directed by Engineer-in-charge.	5.00	Each	1,403.00	7,015.00
	Note: i. Air balancing to be carried out to show anywhere in the area 24±2°C in peak summer also. Note: ii. Energy Meter for total load (lighting, A/C etc.) of the floor shall be provided.				
	Total of Part B			₹	7,27,555.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	Part C- Electrical works.				
1	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 415 V 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	One RM	661.00	13,220.00
2	Supply & Installation of in-screed floor raceways (to be run separately for power, network and telephone cables) consisting following rectangular Aluminium sections including chasing and refilling the trench as per the route shown in the drawing and approved by Engineer in charge at site including clamping & closing the open pipe ends temporarily by suitable end covers against entry of dust or any other foreign material complete in all respects etc. complete as directed by Engineer-in-charge. 96 x 38 mm	200.00	One RM	431.00	86,200.00
3	56 x 38 mm	100.00	One RM	374.00	37,400.00
4	Supply & Installation of floor junction boxes with pre-fabricated stainless steel top cover, 3mm thick provided with suitable Stainless Steel screws for fixing to the junction boxes, of size 300mm x 300mm x 50mm / 150x150x50 fabricated out of MS painted sheets complete in all respects etc. complete as directed by Engineer-in-charge. Make : Locally fabricated	50.00	Each	546.00	27,300.00
5	Removal of existing electrical equipment Removing all existing switch socket, cable, wire, DB, Telephone socket, Networking socket, Telephone and data cable or any other equipments including stacking and transporting to the departmental stores etc. complete as directed by Engineer-in-charge.	1.00	LS	34,500.00	34,500.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
6	<p>Supply, Installation and commissioning of MAIN LT PANEL, floor mounted, front operated, dead back, totally enclosed vermin proof, indoor, non-draw out, cubicle type power dist. panel fabricated out of 2mm thick CRCA sheet having gasketed hinged door on each cubicle, fully powder coated / enamel painted after seven tank treatment, incorporating horizontal and vertical sleeved copper bus bars 'complete with all internal wiring, danger board, two earthing lugs, cable chamber etc. as required' housing below mentioned switchgears / meters complete in all respects. This panel should consist of following.</p> <p>Digital Energy meter with RS 485 port - 1 No. 250A 50KA TPN MCCB unit as Incomer - 1 No. 160A,50KA TPN MCCB as outgoing - 1 No. 63A, TPN MCB as outgoing - 6 Nos. 40A, TPN MCB as outgoing - 4 Nos. 0-250A, Ammeter with CT & inbuilt S/S - 1 No. 0-415V, Voltmeter with inbuilt S/S - 1 No. TP&N, Aluminum busbars of suitable size thick with PVC sleeving - 1 Set RYB, indicating lamps with resistors and fuses - 1 Set</p> <p>This includes termination of the cables, end terminators, material, labour, commissioning etc. complete as directed by Engineer-in-charge.</p>	1.00	One set	74,750.00	74,750.00
7	<p>Supply, Installation and commissioning of UPS OUTGOING PANEL, floor mounted, front operated, dead back, totally enclosed vermin proof, indoor, non-draw out, cubicle type power dist. panel fabricated out of 2mm thick CRCA sheet having gasketed hinged door on each cubicle, fully powder coated / enamel painted after seven tank treatment, incorporating horizontal and vertical sleeved copper bus bars 'complete with all internal wiring, danger board, two earthing lugs, cable chamber etc. as required' housing below mentioned switchgears / meters. Complete in all respects. This should comprise of following.</p> <p>Digital Energy meter with RS 485 port - 1 No. 250A 4P MCCB as Incomer - 1 No. 63A, 4P, MCB as outgoing - 5 Nos. 0-250A, Ammeter with CT & inbuilt S/S - 1 No. 0-415V, Voltmeter with inbuilt S/S - 1 No. TP&N, Aluminum busbars of suitable size thick with PVC sleeving - 1 Set RYB, indicating lamps with resistors and fuses - 1 Set</p>	1.00	One set	66,890.00	66,890.00
8	<p>Supply and installation of 8 way, TPN, MCB type Lighting Distribution Board (LDB) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin' proof, and hinged door with all internals such as DIN rails, neutral-link, interconnected wiring complete with earthing lugs housing following switchgears: Complete in all respects. This should comprise the following.</p> <p>40A, FP ELCB as incomer(100mA) - 1 No. 10A, SP, MCB outgoing(10KA) - 24 Nos. Make: Siemens/Legrand/Hager</p>	1.00	One set	12,334.00	12,334.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
9	Supply, Installation and commissioning of 8 way, TPN, MCB type Power Distribution Board (PDB) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin' proof, and hinged door with all internals such as DIN rails, neutral-link, interconnected wiring complete with earthing lugs housing following switchgears: 63A, FP ELCB as incomer(100mA) - 1 No. 16/20A, SP, MCB outgoing(10KA) - 24 Nos. Make: Siemens/Legrand/Hager	1.00	One set	9,344.00	9,344.00
10	Supply, Installation and commissioning of 8 way, TPN, MCB type Computer Power Distribution Board (CPDB) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin' proof, and hinged door with all internals such as DIN rails, neutral-link, inter connected wiring complete with earthing lugs housing following switchgears, complete in all respects.: 40A, FP MCB Isolator as incomer(10KA) - 1 No. 16A, SP, MCB outgoing(10KA) - 24 Nos. Make: Siemens/Legrand/Hager	1.00	One set	10,988.00	10,988.00
11	Supply, Installation and commissioning of 8way SPNDB similar to above but for emergency lighting distribution (ELDB) having below mentioned switchgears, complete in all respects. 32A, DP, MCB as incomer - 1 No. 6A, SP, MCB, outgoing (10KA) - 6 Nos. Supply, Installation and commissioning of 20A, SP, MCB, box with 20A, metal clad plug-socket for termination of cable for room A/C Make: Siemens/Legrand/Hager	1.00	One set	3,910.00	3,910.00
12	CABLES / MAINS Supply & Installation of 1100V grade FRLS armoured cable having sector / circular shaped aluminum / copper conductor PVC insulated cores, laid up, PVC tape wrapped inner sheathed, GI strip / wire armoured and overall extruded PVC sheathed conforming to IS:1554 laid on wall/ceiling using GI clamps & spacers as per route shown at site and further as directed by Consultant at site in the following sizes, complete in all respects.: Supply & laying of 4C x 120 SQ.MM Copper armoured cable in suitable size of PVC Conduit.	20.00	One RM	3,450.00	69,000.00
13	Supply & laying of 4C x 70 SQ.MM. copper flexible in suitable size of PVC Conduit etc. complete as directed by Engineer-in-charge.	15.00	One RM	2,000.00	30,000.00
14	Supply & laying of 4C x 16 SQ.MM Copper armoured cable etc. complete as directed by Engineer-in-charge.	15.00	One RM	1,035.00	15,525.00
15	Supply & laying of 4C x 10 SQ.MM copper armoured cable etc. complete as directed by Engineer-in-charge.	100.00	One RM	690.00	69,000.00
16	Supply & laying of 4C x 6 SQ.MM copper armoured cable etc. complete as directed by Engineer-in-charge.	50.00	One RM	517.00	25,850.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
17	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. 4C x 120 SQ.MM copper armoured cable.	2.00	Each	1,380.00	2,760.00
18	4C x 70 SQ.MM. copper flexible cable	2.00	Each	920.00	1,840.00
19	4C x 16 SQ.MM Copper flexible cable	2.00	Each	747.00	1,494.00
20	4C x 10 SQ.MM copper flexible cable	2.00	Each	747.00	1,494.00
21	4C x 6 SQ.MM copper flexible cable	2.00	Each	575.00	1,150.00
22	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)	60.00	Each	1,087.00	65,220.00
23	Supply & installation of above for Secondary light points looped from the above point etc. complete as directed by Engineer-in-charge.	60.00	Each	385.00	23,100.00
24	Supply & installation of Hub/Server Room Power Points(3R of 4sqmm copper wire in PVC conduit) with 32A Metal Clad Socket with M.S Enclosure control by a 32 A DP MCB.with Top in enclosure from Hub/Server room DB etc. complete as directed by Engineer-in-charge.	2.00	Each	2,760.00	5,520.00
25	Supply and laying of 1100V grade PVC insulated, copper conductor cables in 1.5mm thick P.V.C. conduits, run above the false ceiling, concealed in the wall or partition, saddles at every 600mm c/c. A separate neutral shall be run for each circuit. The rate shall include all fixing accessories like collars, tees, elbows, providing fan hooks, ceiling roses, holders, wooden blocks, switches, sockets, switch mounting MS boxes, MS Junction Boxes etc., of approved make, complete in all respects, for sl.No. 27, 28 & 30 (Separate rate is not required to be quote for item No.26)				
26	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.	2,000.00	One RM	144.00	2,88,000.00
27	Supply & fixing of 6A/16A Plug Point directly taken from DB for Pantry/geyser / zerox / fridge/ split AC units etc. complete as directed by Engineer-in-charge. Make: Roma of Anchor or North West	15.00	Each	862.00	12,930.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
28	Supply and laying of Raceways with PVC sleeves in the partition etc. complete as directed by Engineer-in-charge.	300.00	One RM	29.00	8,700.00
29	Supply and laying of 2 runs of 4.0 SQ.MM. PVC insulated copper conductor FRLS cable along with 1 runs of 1.5Sq.mm PVC insulated copper conductor cable. (1-PH AC'S) Run in a 25mm dia., 1.2mm thick PVC conduit, on surface of the ceiling or in wall, complete in all respects etc. complete as directed by Engineer-in-charge.	200.00	One RM	172.00	34,400.00
30	Supply and installation of 6A, 5 pin 3 nos. shuttered type sockets controlled by 1no. 16A switch with suitable size of front plate etc. (UPS POWER set); Quantity of outlets are: 4nos. At each work stations, cubicles, 6 nos. each in rooms of PAs, in all cabins of GM, AGMs, conference rooms, ; location of the points will be finalised in consultation with engineer in charge, complete in all respects etc. complete as directed by Engineer-in-charge. Make: Roma of Anchor	50.00	Each	1,552.00	77,600.00
31	Supply and installation of one no 6A 5pin shuttered type sockets controlled by 1no. 6A switch with suitable size of front plate etc. complete as directed by Engineer-in-charge. (RAW POWER set) Make: Roma of Anchor	50.00	Each	920.00	46,000.00
32	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.	75.00	Each	5,175.00	3,88,125.00
33	Supply & Installation of Occupancy sensors with bypass facility for cabins. This includes wiring from sensor to board and supply of required accessories etc. complete as directed by Engineer-in-charge. Make: Philips/Wipro/Steinel	10.00	Each	6,325.00	63,250.00
Total of Part C				₹	16,07,794.00
Part D - IT Networking					
1	Supply and installation of CAT 6 Gig speed information outlets with dual face plates. Quantity of outlets are: 2nos. At each work stations, cubicles, rooms of PAs; 4 nos. in all cabins of GM, AGMs, conference rooms, ; location of the outlets to be finalised in consultation with engineer in charge. Make: Tyco/D-Link/Molex	60.00	Each	434.00	26,040.00
2	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.	60.00	Each	434.00	26,040.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
3	Supply, laying and termination of Cat 6 Gig speed - 4 Pair 24 AWG UTP Cable, 305m with cross member pair separator complete as required. Each box contain 305 mtrs. of cable etc. complete as directed by Engineer-in-charge.	25.00	Each	8,050.00	2,01,250.00
4	Supply, laying and termination of 2pair 0.5mm dia shielded PVC insulated Copper conductor Telephone wire conforming to latest Standards etc. complete as directed by Engineer-in-charge.	2,000.00	One RM	3.00	6,000.00
5	Supply, installation and dressing of Cat 6Gigaspeed Patch Panels for accommodating 24 port termination and shall facilitate cross-connection and inter-connection using modular patch cords and shall conform to EIA standard, 19 inch relay rack mounting requirements. Patch Panel shall come with preloaded information outlets. Panel shall have label holders and designation labels as part of the standard device. Shall also come with rear cable management metallic tray with Velcro ties complete as required etc. complete as directed by Engineer-in-charge.	5.00	Each	11,500.00	57,500.00
6	Supply, installation and dressing of Cat 6Gigaspeed Mounting Cords 3'-0" length for the Patch Panel End Connectivity, Both end shall be RJ 45 with snag less boots complete as required etc. complete as directed by Engineer-in-charge. Make :D-Link or TYCO for all items covered at 1 to 6	60.00	Each	230.00	13,800.00
7	End terminations for telephone cables into junction boxes etc. complete as directed by Engineer-in-charge.	2.00	Each	1,495.00	2,990.00
8	Providing and fixing of Pigtails for Server etc. complete as directed by Engineer-in-charge.	4.00	Each	2,415.00	9,660.00
9	Providing and fixing of slicing of cores etc. complete as directed by Engineer-in-charge.	4.00	Each	1,092.00	4,368.00
10	Supply and fixing of fiber patch cards etc. complete as directed by Engineer-in-charge.	2.00	Each	5,750.00	11,500.00
11	Supply and fixing of Powder coated metallic race ways for tables in cabins and conference halls etc. complete as directed by Engineer-in-charge.	20.00	Each	575.00	11,500.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
12	Supply and fixing of 1 KVA online UPS system with all accessories with one hour back up etc. complete as directed by Engineer-in-charge. Make: APC	1.00	Each	51,175.00	51,175.00
Total of part D				₹	4,21,823.00
Total value of work (Part A+Part B+Part C+Part D)				₹	52,29,938.18
Total : ₹ Fifty two lakhs twenty nine thousand nine hundred thirty eight and eighteen paise only					

Note: **Cement, structural steel/MS reinforcement steel will be issue by BHEL on free of cost at BHEL stores.	
1	A penalty of 0.5% of the gross value of work or part thereof will be levied for every week's delay of work subject to a maximum penalty of 10% of the gross value of work.
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		

Name of the Contractor :

Signature of the Contractor