



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-10/2012-13, Dt: 21.07.2012

PRICE BID

Item no.: 2

Name of work: Modernisation of GT Main Annexe (GF + FF) building interiors - Civil, Electrical, Communication, IT Net working, Air conditioning, Fire Alarm System etc.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	PART 'A' CIVIL WORKS				
1	Dismantling of brick masonry walls for all heights, removing and clearing the debris and carting away upto a 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 as directed by Engineer-in-charge.	1.00	One Cu. m	355.88	355.88
2	Dismantling reinforced cement concrete / plain cement concrete and disposing of debris upto a lead of 2 Km including loading, unloading and spreading as directed by Engineer-in-charge etc. complete.	1.00	One Cu. m	582.68	582.68
3	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.**	1.00	One Cu. m	2,104.00	2,104.00
4	Providing and laying in position specified grade, of Reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - all work upto plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) etc. complete as directed by Engineer-in-charge.**	1.00	One Cu. m	1,687.00	1,687.00
5	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 (60% -20 mm size metal and 40% of 10 mm metal) etc. complete as directed by Engineer-in-charge.**	1.00	One Cu. m	1,560.50	1,560.50
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 etc. complete as directed by Engineer-in-charge.**	1.00	M T	4,003.00	4,003.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
7	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 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 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, back of the tile duly sanded and finished with a coat of protective paint over the formed grid and complete in all respects etc. complete as directed by Engineer-in-charge.	840.00	One Sq. m	1,130.00	9,49,200.00
8	Supply & fixing of aluminium door with single shutter made out of 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 inclusive of supply and fixing all aluminium fixtures and fittings. Providing and fixing of 12mm toughened glass for door frame and door hardwares with DORMA/OZONE make like floor springs, PIVOT patch fittings, bottom locks, D-Handles, and frosted film with specified design etc. complete as directed by Engineer-in-charge. The rate shall include cost of all materials, glass, door hardwares, labour charges etc. complete as directed by Engineer-in-charge.	105.00	One Sq. m	10,000.00	10,50,000.00
9	Supply & fixing of aluminium full height / 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. (The door opening shall be deducted for payment) etc. complete as directed by Engineer-in-charge.	830.00	One Sq. m	4,000.00	33,20,000.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
10	<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 90 mm c/c shall be made for fixing the Eco board. Joints shall be covered with inlay teak design beading and corners shall be covered with corner teak design beadings of suitable sizes. Complete in all respects etc. complete as directed by Engineer-in-charge. Make : Eco board</p>	775.00	One Sq. m	1,600.00	12,40,000.00
11	<p>Supply and fixing of vertical blinds 100 mm in required colour along with channels, fabric bottom weights etc. complete as directed by Engineer-in-charge. Make: SONEX</p>	150.00	One Sq. m	800.00	1,20,000.00
12	<p>Plain cement concrete 1:2:4 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 (60% -20 mm size metal and 40% of 10 mm metal) etc. complete as directed by Engineer-in-charge**.</p>	1.00	One Cu. m	1,906.50	1,906.50
13	<p>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 M level etc. complete as directed by Engineer-in-charge.**</p>	15.00	One	65.80	987.00
14	<p>Supply and fixing of "Jaquar" make Pressmatic pillar cock auto closing system, Cat No. 031</p>	12.00	Each	1,400.00	16,800.00
15	<p>Supply and fixing of "Jaquar (Continental)" make sink cock with raised 'J' shaped swinging spout, Cat No. 359 etc. complete as directed by Engineer-in-charge.</p>	2.00	Each	1,060.00	2,120.00
16	<p>Full height glass doors for cabins: Providing & fixing of full height glass doors with 12mm toughened glass adequately anchored to the existing Aluminium Frame Work/ Wood Work with door hardwares Dorma/Ozone make, like floor spring, patch fittings, bottom locks, 'D' handles, etc. with specified design and sizes of frosted film complete in all respects as directed by Engineer-In charge.</p>	2.00	One Sq. m	9,000.00	18,000.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
17	Supply & fixing of Aluminium Composite Panel (ACP), 2 mm thick in required colours for interiors/exterior, consisting of two layers of aluminium skins of 0.15 mm thick sandwiching a thermo plastic core in continuous lamination process with PVDF Resin coating for interior grades ensuring long colour and no fungal attacks. Base framework with aluminium sections shall be fixed over the brick work and the above composite panels shall be fixed to the framework as cladding. There shall not be any colour variation in panels. It includes cost of labour, materials, accessories, adhesives, scaffolding, wastages, transport, taxes, fixing into a neat finish in aesthetic point of view, without any undulations in facias. Any undulations in walls shall be maintained into one level and the required packing material shall be provided to maintain the neat finish. Payment will be made for finished work only etc. complete as directed by Engineer-in-charge.	14.00	One Sq. m	3,600.00	50,400.00
18	Supply & fixing of walk way tiles of required design, colour and Make, with base of Conmax C-500/equivalent tile adhesive for fixing tiles on existing flooring. Cost of the tile shall be Rs. 50/- per S Ft. User department shall select the design and colour, the agency will procure the same within the above specified cost. Rate quoted shall include cost of all materials, leads and lifts etc. complete. Amount will be paid for the finished item of work only etc. complete as directed by Engineer-in-charge.	55.00	One Sq. m	650.00	35,750.00
	PART 'A' TOTAL			₹	68,15,456.56
	PART 'B' AIR CONDITIONING WORKS				
1	Supply, installation, testing & Commissioning of 17.0 TR ceiling suspended Duct able split a/c unit, Three phase with 17.0 TR 1no indoor unit and 8.5 TR 2.nos outdoor Unit with scroll compressor & remote control along with electronic control with remote control pad, necessary cabling, DBs, switches, inclusive of all connected accessories etc. for 3rd floor hall, complete in all respects etc. complete as directed by Engineer-in-charge. MAKE: LG/VOLTAS/BATLIBOI/CARRIER/BLUE STAR	4.00	Each	3,45,000.00	13,80,000.00
2	Supply, installation, testing & Commissioning of 2.0 TR cassette air conditioner comprising indoor unit, outdoor unit with electronic control with remote control pad, necessary cabling, DB's, switches, necessary copper piping with insulation, electrical wiring, drain piping between indoor and out door, including necessary civil works, 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
	Note: All out door Air conditioner units and compressor units shall be located on the terrace/on chajjas of the building, whichever is feasible.				

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
3	Supply, installation, testing & Commissioning of following piping / ducting for Air Conditioning units Copper refrigerant piping with insulation foam between indoor and outdoor air cooled condensers of the following sizes etc. complete as directed by Engineer-in-charge. Hard drawn pipe 28mm dia	150.00	One R M	989.00	1,48,350.00
4	12mm dia	150.00	One R M	661.00	99,150.00
5	Soft drawn pipe 12.5mm dia	80.00	One R M	402.00	32,160.00
6	6.5mm dia	80.00	One R M	276.00	22,080.00
7	GSS ducting complete with angle iron flanges, high tech supports as per SMACNA specification 20 gauge etc. complete as directed by Engineer-in-charge.	25.00	One Sq. m	1,207.00	30,175.00
8	22 gauge	25.00	One Sq. m	1,053.00	26,325.00
9	24 gauge	120.00	One Sq. m	862.00	1,03,440.00
10	The acoustic lining in the duct using fibre glass with 26 g aluminum perforated sheet using GI nuts and bolts. 12.5mm thick etc. complete as directed by Engineer-in-charge.	30.00	One Sq. m	287.00	8,610.00
11	Providing Thermal Insulation with 25mm thick fiber glass crown 150mm covered with aluminum foil etc. complete as directed by Engineer-in-charge.	175.00	One Sq. m	615.00	1,07,625.00
12	MS black coated Collar Dampers etc. complete as directed by Engineer-in-charge.	15.00	One Sq. m	21,804.00	3,27,060.00
13	Main duct Volume control dampers made out of 18 gauge GI sheet etc. complete as directed by Engineer-in-charge.	1.00	One Sq. m	12,075.00	12,075.00
14	Fire retardant flexible canvas connection etc. complete as directed by Engineer-in-charge.	3.00	Each	483.00	1,449.00
15	Condensate drain pipe of standard make PVC with insulation of 50mm dia etc. complete as directed by Engineer-in-charge.	75.00	One R M	115.00	8,625.00
16	Power and control cabling between the panel, indoor unit and out door unit of the following sizes 3c 1.5 SQ.MM etc. complete as directed by Engineer-in-charge.	150.00	One R M	57.00	8,550.00
17	3c 2.5 SQ.MM etc. complete as directed by Engineer-in-charge.	250.00	One R M	60.00	15,000.00
18	Mounting both indoor & outdoor units, pressure testing, vaccumising and commissioning etc. of Duct able a/c unit etc. complete as directed by Engineer-in-charge.	4.00	Each	10,925.00	43,700.00
19	Mounting of in door and out door cassette AC unit etc. complete as directed by Engineer-in-charge.	10.00	Each	5,175.00	51,750.00
20	Fabrication and erection of MS channel/angle frame work for installation of mounting of out door units including grouting with concrete/anchor bolts into brick wall/concrete/floors etc. complete. Required MS channels/angles shall be supplied by BHEL on free of cost etc. complete as directed by Engineer-in-charge.	4.00	Each	7,305.00	29,220.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
21	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.	30.00	Each	1,840.00	55,200.00
22	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.	30.00	Each	1,403.00	42,090.00
	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.				
	PART 'B' TOTAL			₹	31,22,634.00
	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.	100.00	One R M	661.00	66,100.00
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	1,200.00	One R M	431.00	5,17,200.00
3	56 x 38 mm	200.00	One R M	374.00	74,800.00
4	Supply & Installation of floor junction boxes with top cover for above raceways, of size 300mm x 300mm x 50mm /150x150x50 mm fabricated out of MS painted sheets with removable screwed cover plates on all four sides for blocking the entry complete in all respects etc. complete as directed by Engineer-in-charge. Make : Locally fabricated	200.00	Each	546.00	1,09,200.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
5	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 busbars '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. 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 etc. complete as directed by Engineer-in-charge.	2.00	One Set	74,750.00	1,49,500.00
6	Supply, Installation and commissioning of UPS OUTGOING PANEL, floor mounted, front operated, dead back, totally enclosed vermin proof, indoor, non-drawout, 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. 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 bus bars of suitable size thick with PVC sleeving - 1 Set RYB, indicating lamps with resistors and fuses - 1 Set etc. complete as directed by Engineer-in-charge.	2.00	One Set	66,890.00	1,33,780.00
7	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. 40A, FP ELCB as incomer(100mA) - 1 No. 10A, SP, MCB outgoing(10KA) - 24 Nos. etc. complete as directed by Engineer-in-charge. Make : Siemens/Legrand/Hager	2.00	One Set	12,334.00	24,668.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
8	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. etc. complete as directed by Engineer-in-charge. Make : Siemens/Legrand/Hager	2.00	One Set	9,344.00	18,688.00
9	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, interconnected 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. etc. complete as directed by Engineer-in-charge. Make : Siemens/Legrand/Hager	2.00	One Set	10,988.00	21,976.00
10	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 etc. complete as directed by Engineer-in-charge. Make : Siemens/Legrand/Hager	2.00	One Set	3,910.00	7,820.00
11	CABLES / MAINS Supply & Installation of 1100V grade FRLS armoured cable having sector / circular shaped 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 4R x 240 SQ.MM Copper armoured flexible cable in suitable size of PVC Conduit etc. complete as directed by Engineer-in-charge.	10.00	One R M	3,450.00	34,500.00
12	Supply & laying of 4C x 70 SQ.MM. copper armoured flexible in suitable size of PVC Conduit etc. complete as directed by Engineer-in-charge.	40.00	One R M	2,000.00	80,000.00
13	Supply & laying of 4C x 16 SQ.MM Copper armoured cable.	16.00	One R M	1,035.00	16,560.00
14	Supply & laying of 4C x 10 SQ.MM copper armoured cable.	100.00	One R M	690.00	69,000.00
15	Supply & laying of 4C x 6 SQ.MM copper armoured cable.	40.00	One R M	517.00	20,680.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
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. 4C x 120 SQ.MM copper armoured flexible	4.00	Each	1,380.00	5,520.00
17	4C x 70 SQ.MM. copper armoured flexible	4.00	Each	920.00	3,680.00
18	4C x 16 SQ.MM Copper armoured flexible cable	4.00	Each	747.00	2,988.00
19	4C x 10 SQ.MM copper armoured cable	4.00	Each	747.00	2,988.00
20	4C x 6 SQ.MM copper armoured cable	4.00	Each	575.00	2,300.00
21	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.	120.00	Each	1,087.00	1,30,440.00
22	Supply & installation of above for Secondary light points looped from the above point etc. complete as directed by Engineer-in-charge.	200.00	Each	385.00	77,000.00
23	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
24	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. 25 to 26 (Separate rate is not required to be quoted for item No.24) etc. complete as directed by Engineer-in-charge.				
25	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.	800.00	One R M	172.00	1,37,600.00
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.	5,000.00	One R M	144.00	7,20,000.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
27	Supply & fixing of 6/16A Plug Point directly taken from DB for Pantry/geyser / zerox / fridge/ split AC units etc. complete as directed by Engineer-in-charge.	40.00	Each	862.00	34,480.00
28	Supply and installation of 6A, 5 pin 4 nos. shuttered type sockets controlled by 1no. 16A switch with suitable size of front plate etc. (UPS POWER set); Quantity of outlets are: 4nos.; 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	200.00	Each	1,552.00	3,10,400.00
29	Supply and installation of one no 6A/16A 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	80.00	Each	920.00	73,600.00
30	EARTHING Supply and installation of 2 nos. of separate earth pits each with material for power and network (including excavation) comprising of 600mm x 600mm x 3mm thick copper plate buried at a minimum depth of 2.5 meter including necessary materials like charcoal, salt etc. as required conforming to BIS standards having brick masonry chamber with hinged cover and watering arrangement, complete in all respects etc. complete as directed by Engineer-in-charge.	4.00	Each	24,150.00	96,600.00
31	Supply and installation of copper GI earthing wire/strips in following sizes 14 SWG copper bare wire	20.00	One R M	57.00	1,140.00
32	Supply and installation of isolated earthing system for computer etc. using insulated green yellow copper earthing wire laid through 20mm PVC conduits from separately made earth pit to the equipment in following sizes Supply and installation of 16 sqmm, cu., in 20mm PVC flexible conduit etc. complete as directed by Engineer-in-charge.	100.00	One R M	172.00	17,200.00
33	Supply and installation of 6 sqmm, cu in 20mm PVC flexible conduit.	200.00	One R M	86.00	17,200.00
34	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.	200.00	Each	5,175.00	10,35,000.00
35	Supply & Installation of Recess mounted down lighter luminaries with specular finish reflector 1 x 18 W CFL Cat No Philips make:FBH145/118.	20.00	Each	2,300.00	46,000.00
36	Supply & Installation of Occupancy sensors with bypass facility for Cabins. This includes wiring from sensor to board and supply of required accessories. Make : Philips/Wipro/Steinel	10.00	Each	6,325.00	63,250.00
	PART 'C' TOTAL			₹	41,27,378.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
1	PART 'D' IT NETWORKING 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.	200.00	Each	434.00	86,800.00
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.	200.00	Each	434.00	86,800.00
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.	90.00	Each Box	8,050.00	7,24,500.00
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.	10,000.00	One R M	3.00	30,000.00
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.	12.00	Each	11,500.00	1,38,000.00
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	150.00	Each	230.00	34,500.00
7	End terminations for telephone cables into junction boxes etc. complete as directed by Engineer-in-charge.	4.00	Each	1,495.00	5,980.00
8	Providing and fixing of Pigtails for Server.	8.00	Each	2,415.00	19,320.00
9	Providing and fixing of slicing of cores.	8.00	Each	1,092.00	8,736.00
10	Supply and fixing of fiber patch cards.	4.00	Each	5,750.00	23,000.00
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.	50.00	Each	575.00	28,750.00

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
PART 'D' TOTAL				₹	12,37,561.00
Total value of work (Part A+B+C+D)				₹	1,53,03,029.56
Total ₹ One crore fifty three lakhs four thousand three hundred eighty and fifty one paise only					

Note: **Cement, structural steel/MS reinforcement steel will be issue by BHEL on free of cost at their stores.	
1	A penalty of 0.5% of the gross value of work will be levied for every week's delay of work subject to a maximum penalty of 10% of the gross value of work.
2	Service tax, which is extra as per service tax norms will be paid by BHEL to the agency after submission of necessary documents
3	The rates are inclusive of all taxes and duties.

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