



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-12/2012-13, Dt: 21.07.2012

PRICE BID

Item no.: 3

Name of work: Renovation of welfare wing at 79 Building.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
Part I - CIVIL WORKS					
1	Dismantling of old cement mortar plastering and disposing off upto 2 Kms lead, of walls and ceiling etc. complete including cost of scaffolding etc. upto 3.60 m height etc. complete as directed by Engineer-in-charge.	1,270.00	Sq. m	15.90	20,193.00
2	Plastering in CM 1:6, 20 mm thick to internal and external surfaces of walls including the cost of all materials, labour, curing, scaffolding etc. complete as directed by Engineer-in-charge.**	1,008.00	Sq. m	65.80	66,326.40
3	Finishing the top of concrete flooring in CM 1:3, 12 mm thick including neat finishing, curing etc. complete as directed by Engineer-in-charge.**	262.00	Sq. m	107.80	28,243.60
4	Providing and laying in position reinforced cement concrete of specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement, including consolidation by vibrations for all works up to floor level with 1:2:4 (1 Cement : 2 Coarse sand : 3 graded stone aggregate of 20 mm nominal size) etc. complete as directed by Engineer-in-charge.** a) for lintels and chajjas	3.00	Cu. m	1,687.00	5,061.00
5	Supply and fixing of doors along with teak wood door frame of required size consist teak scantlings of 100 mm x 75 mm and flush door shutter and laminating both door frame and shutter with premium quality teak vineer in required colour and design and melamine polish. Flush door shutter shall be chemically treated and water/insect/borer proof and 30 mm thick. This includes providing brass hinges, brass aldrops, brass tower bolts, brass handles and brass door stoppers etc. complete as directed by Engineer-in-charge.	20.00	Sq. m	3,000.00	60,000.00
Note:- Cement & Reinforcement Steel will be issued on FREE of cost by BHEL at their stores.					

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
7	<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, back of the tile</p> <p>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>	185.00	Sq. m	1,130.00	2,09,050.00
8	<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 pockets for electrical,</p> <p>electrical, communication, network cables, junction boxes etc. complete in all respects etc. complete as directed by Engineer-in-charge.</p>	262.00	Sq. m	950.00	2,48,900.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
9	<p>Dismantling of existing windows along with frames and providing Glazed Windows</p> <p>Dismantling and removing the existing windows along with frames including chipping/chasing brick work/concrete for removal and stacking in stores as directed by Engineer in charge.</p> <p>Supplying & fixing of flush window frame with sides open able shutters and fixed double glazed window with fixed ventilators fabricated from roll formed sections made of galvanised steel powder colour coated (Base steel as per IS 513 "D" quality, galvanised as per IS 277 with Zinc of 120 grams/Sq. m) with total coated thickness of 0.60 mm. External frame should be 46 mmx52 mm. Section for glass beading should be of 20 mmx20 mm and center mullion should be of 46 mmx70 mm and section for shutter should be of 46 mmx46 mm. Coated sections should be with primer coat of epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, powder coated with pure polyester powder upto 50-60 microns thick. The frame and shutter sections should be cut to length and miter joined with corner bracket made of CRCA electroplated. Mullion section should be joined with</p> <p>frame/mullion using Nylon Mullion Cap Ethyl Propylene Diamine Monomer (EPDM) gasket should be used all around glass in shutter between frame and glazed shutter and both sides of fixed glass.</p> <p>Accessories: Handle made of high grade aluminium powder coated and with nylon receiver. Gaskets made of Ethyl Propylene Diamine Monomer (EPDM). Corner brackets made of CRCA with zinc phosphating. Mullion caps made of glass filled nylon.</p> <p>Glass: Glass shutter and fixed glass portions should be provided with a glass of 20 mm (5 mm plain glass + 10 mm Hermitically sealed air gap + 5 mm plain glass).</p> <p>Chipped/chased brick work shall be neatly finished with cement plaster and plastered area shall be applied with water proof paint. Paint will be supplied by BHEL on free of cost. Window frame should be fixed to brick/concrete masonry by using Nylon self-expanding caps and driving MS electroplated 80 mm long screws into the caps through frames.</p> <p>Any minor gaps between frame and brick work shall be sealed with silicon material at both sides to avoid seepage of rain water/loss of air condition system etc. complete as directed by Engineer-in-charge.</p> <p>MAKE: SHAKTI/AJANTHA OF NCLSECCOLOR</p>	35.00	Sq. m	4,000.00	1,40,000.00
10	<p>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 etc. complete as directed by Engineer-in-charge.</p> <p>Make: SONEX</p>	42.00	Sq. m	800.00	33,600.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
11	Painting with synthetic enamel paint two coats of approved shade and brand (Berger make) over applying one coat of primer and applying three coats of wood luppum, each coat after drying the previous coat and sand papering and applying one coat of wood primer etc. complete to a neat finish as directed by the Engineer-in-charge. Rate shall include cost of all materials, labour etc. complete as directed by Engineer-in-charge.	40.00	Sq. m	67.60	2,704.00
12	Supply and fixing of aluminum window grill along with aluminium frame consisting aluminium 'F' section of size 2.5"x1.5"x1.20 mm thick (62x38 mm x1.2 mm thick) and supply and fixing of design of 4" aperture aluminium grill to the above frame work with necessary fixtures. It includes fixing of total frame to the existing brick work, finishing etc. complete as directed by Engineer-in-charge.	35.00	Sq. m	1,540.00	53,900.00
13	Finishing walls with textured exterior paint of required shade (Two or more coats applied @ 3.28 ltr/10 Sq. m) over and including scraping the existing surfaces and base coat of water proofing cement paint applied @ 2.20 Kg/10 Sq. m etc. complete as directed by Engineer-in-charge.	416.00	Sq. m	96.25	40,040.00
14	Supply & applying two coats of exterior emulsion/Trump/weather coat cement paint of approved shade on old plastered surfaces at all heights of buildings. The rate shall includes the cost of labour, paint material, scraping the old surface wherever necessary, cleaning the surfaces, scaffolding, other incidentals like brushes/rollers etc. complete. It also includes cleaning the areas of spill drops of paint on floors, glasses immediately, after painting. The make of the paint shall be as directed by Engineer-in-charge. As per recommended theoretical consumption specified by the manufacturer of above make, total quantity of paint material of above make shall be brought and kept in departmental stores. Paint will be issued accordingly to execute the work. Bills and test certificates of above specified make of paint material shall be produced for payment etc. complete as directed by Engineer-in-charge.	416.00	Sq. m	36.30	15,100.80
Part II - Construction of toilet					
1	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 etc. complete as directed by Engineer-in-charge.	39.00	Cu. m	103.40	4,032.60

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
2	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) etc. complete as directed by Engineer-in-charge.	6.00	Cu. m	1,560.50	9,363.00
3	Coursed rubble masonry in second sort with hard stone in foundation & plinth with cement mortar 1:6 (1 cement :6 coarse sand) etc. complete as directed by Engineer-in-charge.	13.50	Cu. m	1,521.00	20,533.50
4	Brick work using 2 nd class ground molded British standard bricks in Cement mortar 1:6, in super structure including the cost of all materials, labour, curing etc. complete as directed by Engineer-in-charge.	20.00	Cu. M	2,104.00	42,080.00
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.**	130.00	Sq. m	65.80	8,554.00
6	Plastering to the ceiling in CM 1:3, 12 mm thick including the cost of all materials, labour, curing etc. complete as directed by Engineer-in-charge.**	25.00	Sq. m	59.00	1,475.00
7	Plastering over roof slab in CM 1:4, 20mm thick mixed with water proofing compound, Make: "Sika" @ 3% by weight of cement as per manufacturer's specification, curing as directed. Rate materials and labour etc. complete as directed by Engineer-in-charge.**	25.00	Sq. m	81.30	2,032.50
9	Providing and laying in position reinforced cement concrete of specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement, including consolidation by vibrations for all works up to floor level with 1:2:4 (1 Cement : 2 Coarse sand : 3 graded stone aggregate of 20 mm nominal size) etc. complete as directed by Engineer-in-charge.	4.00	Cu. m	1,687.00	6,748.00
10	Supply & fixing of Aluminium ventilators with box section of size 44.50 x 44.50 x 2 mm thick as frame with required numbers of 3 mm thick pin head glass. This includes grouting frame work to the brick work, cost of aluminium sections, labour etc. complete as directed by Engineer-in-charge.	1.08	Sq. m	1,097.00	1,184.76
11	Centering and shuttering including strutting, propping etc.; and removal of form work, for columns, pillars, piers, abutments, machine foundations, posts and struts etc. complete as directed by Engineer-in-charge.	50.00	Sq. m	180.40	9,020.00
12	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.**	1.50	M T	4,003.00	6,004.50
13	Dismantling 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 cost of all labour, scaffolding etc. complete as directed by Engineer-in-charge.	1.40	Cu. M	355.88	498.23

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
14	Dismantling reinforced cement concrete / plain cement concrete and disposing of debris upto to a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc. complete as directed by Engineer-in-charge.	0.20	Cu.m	582.68	116.54
15	Supply & fixing 10 mm thick best quality approved colour and design machine cut granite tiles of size 600 mm x 300 mm with mirror polished granite stone for flooring, platforms, cladding, vanity counter Facia etc. and for any other locations including cutting, champering, rounding and mirror polishing etc. complete as directed. Cost of the granite shall be Rs. 650/- per sq. m and tiles will be selected by department within the above specified cost etc. complete as directed by Engineer-in-charge.	25.00	Sq. m	810.00	20,250.00
16	Supply & fixing of 18 mm thick best quality approved colour and design machine cut mirror polished granite slabs in required sizes for counter wash basins, floorings, vanity counter, claddings, facias etc. including cutting, champering, rounding and mirror polishing etc. complete as directed. Cost of granite slabs shall be Rs. 1600/- per Sq. m and granite slabs of required design and colour will be selected by department etc. complete as directed by Engineer-in-charge.	4.00	Sq. m	3,071.00	12,284.00
17	Providing and fixing shutters along with frames for toilets that are 30 mm thick factory made PVC rigid foam paneled, door and shutters manufactured by M/s. Rajashri made from M.S. tube, 19 gauge thick, size 19x19mm for styles and 15x15mm for top and bottom rails, covered with heat molded PVC "C" channel of 5mm thick sheet and 30x50mm wide for styles and 5mm thick and 75mm wide PVC sheets for top rail and bottom rail either side and 5 mm thick, 20mm wide cross PVC sheet as gap insert for top rail and bottom rail, paneling of 5mm thick PVC sheet fitted with M.S. frame welded / sealed to the styles and rails with 5x30mm PVC sheet beading on either side and joined together with solvent cement adhesive etc. complete in all respects as per direction of engineer in-charge fixed to frames. This includes providing brass hinges, brass aldrops, brass tower bolts, brass handles and brass door stoppers (For W.C. and bathroom doors) etc. complete as directed by Engineer-in-charge.	4.00	Sq. m	1,830.00	7,320.00
18	Supply & fixing coloured glazed tiles of required make ceramic tiles of Premium (First) quality of required size and of approved shade and design, for walls/flooring over a base of CM 1:4, including neat finishing and jointing etc. complete. (Corners are to be joined by mitering the tiles). The cost of the tile shall be Rs. 70/- per S Ft. The make, design and colour of tile will be selected by department within the above specified cost. The rate quoted shall also include the cost of all materials, labour etc. complete. Payment will be made for finished item of work only etc. complete as directed by Engineer-in-charge.	100.00	Sq. m	764.00	76,400.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
19	Supply & fixing with "Parryware" make ceramic oval shape below counter wash basin size 550 mm x 450 mm, Code No.: 0418, regular in colour (light Ivory) with all accessories like brackets, screws etc. complete as directed by Engineer-in-charge.	2.00	Each	2,024.00	4,048.00
20	Supply & fixing of new "Parryware" make ceramic cascade water closet suite with "P/S" trap including Polypropolene seat cover with all accessories regular in colour (light ivory), Cat No. 0219 along with ceramic matching colour attached cistern 10 liters capacity with suitable flush fittings etc. complete as directed by Engineer-in-charge.	1.00	Each	6,985.00	6,985.00
21	Supply & fixing of new urinary pans "Parryware" make, Ceramic, Model (Cat 0575) "New Magnum Urinal" (600 x 400 mm) along with all accessories, CP spreader, brackets etc. regular in colour (light Ivory) along with partition for Magnum Urinal ceramic, 'Z' type brackets to be screwed to the wall at the bottom size 810 x 390 mm in regular colour (light Ivory), (Cat 0571) etc. complete as directed by Engineer-in-charge.	2.00	Each	3,933.00	7,866.00
22	Supply & fixing of new "Parryware" make, Orissa Pan size 580 mm (Cat 0109/17) with P/S trap box rim with internal foot treads including Polymer cistern Slim line single flush anti-microbial with Parry ware flush kit, regular in colour (light Ivory) with all required accessories etc. complete as directed by Engineer-in-charge.	1.00	Each	4,261.00	4,261.00
23	Supply & fixing "Marc" make Oriental series brass bib cock with all accessories etc. complete as directed by Engineer-in-charge.	3.00	Each	506.00	1,518.00
24	Supply & fixing of "Marc" make Oyster series long body brass pillar cocks with all accessories (MOY 1080) suitable for counter wash basin (oval shape) etc. complete as directed by Engineer-in-charge.	2.00	Each	900.00	1,800.00
25	Supply & fixing of "Marc" make Oyster series brass stop cocks with all accessories (MOY 1040) etc. complete as directed by Engineer-in-charge.	2.00	Each	698.00	1,396.00
26	Supply & fixing of Paper Holder etc. complete as directed by Engineer-in-charge.	2.00	Each	500.00	1,000.00
27	Supply & fixing of towel ring etc. complete as directed by Engineer-in-charge.	3.00	Each	500.00	1,500.00
28	Supply & fixing of Soap dish etc. complete as directed by Engineer-in-charge.	3.00	Each	500.00	1,500.00
29	Supply & fixing of Odonil Holder etc. complete as directed by Engineer-in-charge.	2.00	Each	500.00	1,000.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
30	Thorough cleaning of existing oil bound distemper paint/white washing with water, by scrapers for old walls and stone rubbing for new plastered walls with suitable tools and applying one coat of oil based cement primer and applying 3 coats alkali resistant lappam one coat after drying the previous coat and sand papering and applying two coats of acrylic washable distemper etc., complete as directed by the Engineer-in-charge. Rate shall include all materials like lappam, primer, tools and tackles, scaffolding etc. Only acrylic washable distemper will be issued by BHEL at free of cost etc. complete as directed by Engineer-in-charge.	850.00	Sq. m	67.60	57,460.00
31	Construction of brick masonry chamber of size 23 x 30 Cm (9" x 12") in brick work in CM 1:6 and plastering in CM 1:4, 20 mm for gully trap 150 mmx100mm including cost of excavation, PCC 1:4:8, 75 mm thick, all materials, labour etc. complete as directed by Engineer-in-charge.	10.00	Each	405.00	4,050.00
32	Construction of brick masonry chamber of dimension 0.914 x 0.457 x 0.914 m (3' x 1'6" x 3') with brick in CM 1:6 including plastering over both sides with CM 1:4, 20 mm thick and fitted with light weight CI frame and cover of size 0.914 x 0.457 m in CM 1:4 including bed concrete of CC 1:4:8 as required, supplying and fixing one CI steps in brick masonry if necessary if necessary including earth work excavation in all soils, refilling around the chamber removing the surplus earth etc. complete as directed etc. complete as directed by Engineer-in-charge.	2.00	Each	2,742.00	5,484.00
33	Construction of CI chamber cover of size 0.914 m x 0.457 m, 12 mm thick etc. complete as directed by Engineer-in-charge.	2.00	Each	1,430.00	2,860.00
34	Supplying, laying, jointing and testing 152.4 mm (6") SWG pipes of ISI make conforming to ISI 651 & 4127 with airtight cement joints in Cement mortar 1:5:1 prop. Including excavation of trenches and socket pits in any soil (except rock requiring blasting) upto 1524 mm (5'0") depth and refilling with watering and tamping etc. complete as directed by Engineer-in-charge.	10.00	R M	471.00	4,710.00
35	Supply & fixing 15 mm dia Nominal Bore GI pipe medium				
a)	Grade properties and weight as per IS 1239 ISI mark with GI fittings including the cost of GI pipe & its fittings, chasing brick work/concrete and making good the same, cost of labour, all materials etc. complete as directed by Engineer-in-charge. Make: TATA/JINDAL/ZENITH	20.00	R M	131.00	2,620.00
b)	.. Do... 20mm dia (3/4")	20.00	R M	146.00	2,920.00
c)	.. Do... 25mm dia (1")	20.00	R M	191.00	3,820.00
36	Supply & fixing of GM peet valves, heavy quality, ISI marked Leader/Zoloto make of nominal bore for 15 mm (1/2") dia				
a)		3.00	Each	242.00	726.00
b)	.. Do... 20mm dia (3/4")	3.00	Each	327.00	981.00
c)	.. Do... 25mm dia (1")	3.00	Each	482.00	1,446.00

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37	Supplying and fixing CI Nahany traps 1st quality ISI marked conforming to IS: 1729 - 1979 with C.P Grating fixing with white cement as per site requirements with standard practice - 100mm inlet - 75 mm dia (3") outlet pipe - 4 Kgs etc. complete as directed by Engineer-in-charge.	5.00	Each	200.00	1,000.00
38	Supply & fixing of 6 mm thick mirror of approved quality "Modi float/Saintgobin glass", with 6 mm thick hard board back and with best quality teak wood frame (design beading) all round the mirror including necessary clamps, polishing to the beading, cost of all materials etc. complete as directed by Engineer-in-charge.	1.80	Sq. m	1,445.00	2,601.00
39	Supply and fixing of "Jaquar (Allied)" make Health Faucet with 8 mm dia, 1 m long flexible tube and wall hook, Cat No. 573 etc. complete as directed by Engineer-in-charge.	2.00	Each	1,325.00	2,650.00
PART - III - Electrical Estimate					
1(a)	Supply & Installation of lighting/fans wiring with 1.5 sq. mm copper conductor single core multi-strand PVC insulated cable run through rigid PVC pipe of suitable size (Sudhakar make) from switch board/FBD to individual points laid on wall/roof including earth continuity for all points with copper wire of 14 SWG with 5 A ceiling rose on teakwood round block etc. complete as directed by Engineer-in-charge. Make: Fine cab / Finolex.	64.00	Point	372.00	23,808.00
(b)	---do--- for Boards consisting 10 A - 4 Nos. Switch cum sockets with 2.5 Sq. mm FRLS Cable for PC's. (Separate line to be drawn from MCB) etc. complete as directed by Engineer-in-charge. Make: Finecab / Finolex.	24.00	Point	540.00	12,960.00
(c)	---do--- for 10 Amps Power Switch cum sockets for chargers, pedestal fans and emergency lamps with 1.5 Sq. mm cable etc. complete as directed by Engineer-in-charge. Make: Fine cab / Finolex.	26.00	Point	372.00	9,672.00
(d)	---do--- for Boards consisting 25 A Switch cum sockets with 4 Sq. mm FRLS Cable for AC's, Refrigerators and Heaters etc. (Separate line to be drawn from MCB) etc. complete as directed by Engineer-in-charge. Make: Fine cab / Finolex.	15.00	Point	1,200.00	18,000.00
2(a)	Supply and fixing of 10 Amps, 250 V SPT switches for control of light fittings with ROMA, Code: 21 011 of Anchor make / North-West make fixed on a suitable Modular type concealed box with suitable top cover for item 1(a) etc. complete as directed by Engineer-in-charge.	64.00	Set	250.00	16,000.00
(b)	Supply and fixing of 230 V, 10 Amps - 4 Nos. switch cum sockets of ROMA code: 21 003 & 30 373 of Anchor make / North-West make for PC's fixed on a suitable Modular type concealed box with suitable top cover for item 1 (b) etc. complete as directed by Engineer-in-charge.	24.00	Set	1,225.00	29,400.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
(c)	Supply and fixing of 230 V, 10 Amps - 4 Nos. switch cum sockets of ROMA code: 21 003 & 30 373 of Anchor make / North-West make fixed on a suitable Modular type concealed box with suitable top cover for item 1 © etc. complete as directed by Engineer-in-charge.	26.00	Set	400.00	10,400.00
(d)	Supply and fixing of 25 Amps, 240 V 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 AC's - item 1 (d) etc. complete as directed by Engineer-in-charge.	15.00	Set	1,050.00	15,750.00
3	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 ballasts & 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 etc. complete as directed by Engineer-in-charge.	28.00	Set	4,100.00	1,14,800.00
4	Supply and installation of Energy efficient light fitting, T5 type 2 x 28 W industrial luminaire with 28W T5 Fluorescent lamps. This includes supply & fixing of down rods, round blocks, connecting the copper twin twisted wire from ceiling rose to fitting and other accessories. Make: Philips/Asian Electronics etc. complete as directed by Engineer-in-charge.	10.00	Set	1,800.00	18,000.00
5	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 etc. complete as directed by Engineer-in-charge. Make: Bajaj / Orient.	24.00	Set	1,580.00	37,920.00
6	Supply and installation of 300 mm (12") sweep exhaust fans, which includes assembling and testing of all fans. The fans are to be rigidly fixed to wall with suitable arrangement. Black colour, double ball bearing, low noise, white epoxy powder coated paint finish with bird guard etc. complete as directed by Engineer-in-charge. Make: Orient/Usha/Crompton.	2.00	Set	1,600.00	3,200.00
7	Supply and installation of 400 mm (16") sweep pedestal fans (which includes assembling and testing of all fans), white colour, ISI mark, speed 1250 rpm with three blades, supply 230 V, 50 Hz, Power input: 58 watts, Air Delivery: 4500 CMH, double ball bearing, low noise, white epoxy powder coated paint finish with bird guard make inbuilt regulator etc. complete as directed by Engineer-in-charge. Make: Orient/Usha/Crompton/Rallifan.	10.00	Set	1,900.00	19,000.00
8	Supply and fixing of fan step regulator Dura EME of Anchor code :21496 fixed on a suitable Modular type concealed box with suitable top cover for item no.(5) etc. complete as directed by Engineer-in-charge.	24.00	Set	450.00	10,800.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
9	Supply and installation of MCB Distribution Board with TPN 415V, 8 way(8GB0409H) consisting of single pole 20A -8 Nos. each phase of Siemens/Legrand/Hager make along with controlling four pole Isolator 63A(5SQ26107YA63), entry & reverse entry Cable boxes & cable glands etc., fixing neatly by fabricating steel frame and mounting on wall as per instructions of site engineer etc. complete as directed by Engineer-in-charge.	4.00	Set	8,750.00	35,000.00
10	Installation of 12 way Fuse Distribution Board with 200A Combination Fuse Switch, entry & reverse entry Cable boxes & cable glands etc., fixing neatly by fabricating steel frame and mounting on wall, Incoming/Outgoing Cables are to be terminated neatly as per instructions of site engineer. The termination with suitable lugs and supply of glands are in the scope of contractor. (FBD will be BHEL supply) etc. complete as directed by Engineer-in-charge.	1.00	Set	1,500.00	1,500.00
11	Shifting & Laying of 3 1/2C X 25/35 Sq.mm Aluminium LT Cable from FBD to MCB on wall/roof neatly with suitable clamping, dressing and Cable end termination at both side with suitable copper lugs, glands and accessories. (Cable will be BHEL supply) etc. complete as directed by Engineer-in-charge.	100.00	R M	40.00	4,000.00
12	Supply & installation of earth pits with material for power boards (including excavation) comprising of 600mm X 600mm X 3mm thick copper plate buried at minimum depth of 2.5 mtrs including necessary materials like charcoal, salt etc. as required confirming to IS 3043 with latest amendments having brick masonry chamber with hinged cover and watering arrangement complete in all respects etc. complete as directed by Engineer-in-charge.	2.00	Each	9,000.00	18,000.00
13	Supply & installation of 6 Sq.mm Copper earthing wire laid through 20mm PVC conduit separately from Earth pit to FBD/MCB. All fasteners are to be supplied by the contractor etc. complete as directed by Engineer-in-charge.	100.00	R M	85.00	8,500.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
14	Disconnection of power supply and dismantling of existing light fittings, fans, power boards, cables and other accessories. The removed items are to be handed over to concerned section etc. complete as directed by Engineer-in-charge.	1.00	L S	3,000.00	3,000.00
	Total			₹	16,86,927.43
	Add increase in Vat 1% over the material cost (70% of Above value)			₹	11,808.49
	Total value of work			₹	16,98,735.92
Total : ₹ Sixteen lakhs ninety eight thousand seven hundred thirty five and ninety two 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