



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

Item no.: 4

PRICE BID

Name of work: Improvements to Admn. building parking area – Phase II.

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
Civil works:					
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.	647.00	Cu. m	103.40	66,899.80
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. **	63.00	Cu. m	1,560.50	98,311.50
3	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. **	109.00	Cu. m	1,687.00	1,83,883.00
4	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.	210.00	Cu. m	1,521.00	3,19,410.00
5	Providing and laying Damp-proof course 50 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) etc. complete as directed by Engineer-in-charge.	195.00	Sq. m	94.44	18,415.80
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.	6.54	M T	4,003.00	26,179.62
7	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.	454.00	Sq. m	180.40	81,901.60
8	Brick work with clay flyash FPS brick of class designation 75 in super structure above plinth level upto floor five level in cement mortar 1:6 (1 cement : 6 Coarse sand) etc. complete as directed by Engineer-in-charge. **	40.00	Cu. m	1,808.00	72,320.00

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
9	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.**	361.00	Sq. m	65.80	23,753.80
10	Cement plaster ceiling / walls with 12 mm thick cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement : 3 fine sand) etc. complete as directed by Engineer-in-charge.	45.00	Sq. m	59.00	2,655.00
11	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.	2.00	Cu.m	582.68	1,165.36
12	Hiring of JCB. JCB should work minimum 8 hours per a day, including cost of diesel, driver etc. complete as directed by Engineer-in-charge.	30.00	one day	750.00	22,500.00
13	Dismantling brick masonry walls for all heights, removing and clearing the debris 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 as directed by Engineer-in-charge.	8.00	Cu. m	355.88	2,847.04
14	Dismantling CRS masonry walls at all heights, removing and clearing the debris 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 as directed by Engineer-in-charge.	108.00	Cu. m	415.88	44,915.04
15	Providing & fixing of top fixed, side hung of NCL Seccolor windows fabricated from roll formed section made of pre-painted steel (Base steel as per IS 513 of 0.6 mm thick, 'D' quality, as per IS 277 with zinc 150 GSM / Sq. mtr). Section for shutter should be of 46 mm x 46 mm, external frame should be of 46 mm x 52 mm, section for glass beading should be of 18 mm x 25 mm & center mullion should be 46 mm 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 4 mm thick, Modi float glass. Gasket made of EPDM corner brackets made of CRCA with zinc phosphating. Mullion caps made of glass filled nylon. The above frames should be fixed to the concrete / masonry walls by means of self expanding screws etc. complete as directed by Engineer-in-charge. MAKE: SHAKTI/AJANTHA OF NCLSECCOLOR	21.00	Sq. m	3,000.00	63,000.00
16	Supplying fixing of MS Single doors of Shakti make as per the specification attached etc. complete as directed by Engineer-in-charge.	6.00	Sq.m	6,799.85	40,799.10
17	Dismantling of cycle shed of 5 spans including removal, transporting and stacking at BHEL stores or any other place (upto 2 Kms lead) for reuse of AC sheet, ridges, purlins, trusses, columns etc. complete. Steel columns shall be loosened by breaking concrete using necessary tools etc. as directed by Engineer-in-charge.	15.00	Each	4,833.85	72,507.75

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
18	Erection of cycle shed of 5 spans including erection of steel posts, trusses and purlins and fixing of Zincalume / AC Sheet and ridges, using 'J' bolts, nuts etc. complete as directed by Engineer-in-charge. (Labour charges only).	15.00	Each	7,610.65	1,14,159.75
19	Pointing on Stone Work with Cement mortar 1:3 (1Cement : 3 Fine sand) - Raised and Cut Pointing etc. complete as directed by Engineer-in-charge. **	1,204.00	Sq. m	112.00	1,34,848.00
20	Interacting of earth including excavation of earth within the factory premises i.e. transportation upto 5 Km lead including loading and unloading etc. complete as directed by Engineer-in-charge.	500.00	Cu. m	76.48	38,240.00
21	Laying, spreading and compacting of supplied earth, including spreading in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8-10 tonne in stages to proper grade and camber, watering and compacting to the required density etc. complete as directed by Engineer-in-charge.	500.00	Cu. m	192.55	96,275.00
22	Filling with available excavated earth (excluding rock) in trench, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidation each deposited layer by ramming and watering, lead upto 50.00 m and lift upto 1.50 m etc. complete as directed by Engineer-in-charge.	20.00	Cu. m	45.70	914.00
23	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 their stores etc. complete as directed by Engineer-in-charge.	28.00	MT	7,563.80	2,11,786.40
24	Erection of Steel work out lined in above item, including the charges for handling, leading and stacking at site at approved locations prior to erection including all site riveting, bolting, jointing and site welding where ever required etc. complete as directed by Engineer-in-charge.	28.00	MT	3,241.60	90,764.80

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
a	Supply and Fixing of colour coated aluminium zinc alloy coated metallic hirib profile sheet of nominal 1015-1020mm effective cover width and 28-30 mm deep ribs with subtle square fluting in the five pan at nominal 202-205mm center-to-center. The end rib shall be designed for anti-capillary action, to avoid any seepage of water through the lateral overlap. The feen material is manufactured out of nominal 0.45mm base metal thickness (BMT) or 0.5 mm TCT, Hi-Strength steel with minimum 550 MPa yield strength metallic hot dip coated with aluminium -Zinc alloy (55 % Aluminium ,45 % Zinc)as per AS 1397-Zincalume AZ150 (Min 150 Grams / Sq.Mt) Total on both sides) with colour bond steel quality paint coat as per AS/NZS 2728 type 3-4.The paint shall have a total coating thickness of nominal 35 µm, Comprising of nominal 20µm exterior coat on top surface and nominal 5 µm reverse coat on back surface over nominal 5µm primer coat on both surfaces of approved colour shade by concern authority. The steel manufactures test certificate for the certificate for the chemical and mechanical properties of steel must be submitted for <u>approval by the engineer-in-charge.</u>	2,160.00	sq Mt	672.00	14,51,520.00
b)	Supply and fixing of 0.50 mm thick color Aluminium zinc alloy coated metallic roofing sheet flashings with self drilling / self stitching fasteners etc. complete as directed by Engineer-in-charge.	370.00	RM	900.00	3,33,000.00
25	Supply, Fabrication and erection of structural steel and commissioning of double leaved gates, as per required design and size etc. complete as directed by Engineer-in-charge.	6.00	MT	52,805.40	3,16,832.40
26	Painting at site of all structural steel work with 2 coats of aluminium paint / synthetic enamel paint of approved shade 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 their stores etc. complete as directed by Engineer-in-charge.	50.00	MT	596.50	29,825.00
27	Applying exterior emulsion paint 2 coats over one coat of primer to external new plastered surfaces including cost of all labour and other incidentals. (only exterior paint will be issued by BHEL on free of cost) etc. complete as directed by Engineer-in-charge.	1,414.00	Sq. m	29.90	42,278.60
28	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 altek 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 lappum, 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.	225.00	Sq. m	84.10	18,922.50

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
29	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.	30.00	Sq. m	800.00	24,000.00
30	Casting and placing in position of R.C.C cable trench covers of 75 mm thick in mix of 1:1.5:3 using 20 mm down graded metal including cutting, welding of Angle iron frame, cost of MS reinforcement as specified including cutting bending , binding wire, spreading of Ironite powder at 2 Kg / Sq.m, neat finishing ,cost of labour, etc. complete as directed. (MS angles, electrodes only will be issued on free of cost by BHEL at their stores) etc. complete as directed by Engineer-in-charge.	4.25	Sq. m	184.00	782.00
31	Supply & stacking of Stone dust including transportation and spreading as directed by Engineer-in-charge.	446.00	Cu. m	753.20	3,35,927.20
32	Supply & fixing of heavy duty factory made hydraulically pressed and mechanically compacted pre-cast concrete designed pavers in required colour, with 60 mm thickness, M40 Grade, I Lock Paver tiles, including spreading of stone dust properly for fixing the pavers into one level in required design etc. complete. Rate shall include cost of material, transportation, labour, tools, tackles etc. complete. Rate for stone dust will be paid separately etc. complete as directed by Engineer-in-charge.	9,130.00	Sq. m	465.00	42,45,450.00
33	Supply & fixing of heavy duty factory made hydraulically pressed and mechanically compacted pre-cast concrete designed kerb blocks in required colour, with 110 mm thickness, M40 Grade, including spreading of stone dust properly for fixing the kerb blocks into one level in required design etc. complete. Rate shall include cost of material, transportation, labour, tools, tackles etc. complete. Rate for stone dust will be paid separately etc. complete as directed by Engineer-in-charge.	800.00	R M	269.00	2,15,200.00
34	Providing and fixing shutters along with frames for toilets that are 30 mm thick factory made PVC rigid frame paneled door, 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.	3.60	Sq. m	2,000.00	7,200.00

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
35	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, chamfering 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. pockets for electrical, communication, network cables, junction boxes etc. complete in all respects etc. complete as directed by Engineer-in-charge.	50.00	Sq. m	950.00	47,500.00
36	Removing of MS grills including gas cutting etc. complete as directed by Engineer-in-charge The dismantled grills should be handed over to BHEL stores etc. complete as directed by Engineer-in-charge.	50.00	Sq. m	36.70	1,835.00
37	Fixing of MS grills in CRS walls including gas cutting and welding as directed by the Engineer-in-charge. (Cost of MS grills is excluded.) etc. complete as directed by Engineer-in-charge.	480.00	Sq. m	69.65	33,432.00
38	Fabrication and supply of MS grills with 30 mm x 5 mm MS Flat and 10 mm dia plain rods, as per drawing, including cutting, hoisting and applying a primer coat of approved primer as directed by Engineer-in-charge.	3.55	M T	51,200.00	1,81,760.00
39	Providing and fixing in position of collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size with top and bottom rail of T iron 40x40x6 mm with 40 mm dia, steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer etc. complete as directed by Engineer-in-charge.	72.00	Sq. m	2,592.70	1,86,674.40
40	Providing and laying in position cement concrete of specified grade excluding the cost of shuttering including consolidation by vibrations for all works up to plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) Cast-in-situ for Road divider in specified design as instructed by Engineer-in-charge.	1.00	Cu. m	1,585.00	1,585.00
41	Supply & Providing of pre-cast concrete dividers of size 915 mm x 750 mm etc. complete as directed by Engineer-in-charge.	200.00	Each	1,805.25	3,61,050.00

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
42	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 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 etc. complete as directed by Engineer-in-charge.	1.00	Each	3,933.00	3,933.00
43	Supply and fixing of "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, waste coupling half thread/full thread (Code No. T9910A), connecting hose 2' (Cat No. T991999) etc. complete as directed by Engineer-in-charge.	1.00	Each	2,024.00	2,024.00
44	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 ceramic low level flushing cistern 10 liters capacity with Parryware wonder flush kit, regular in colour with all required accessories etc. complete as directed by Engineer-in-charge.	1.00	Each	4,261.00	4,261.00
45	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.	0.27	Sq. m	1,445.00	390.15
46	Supply and fixing of "Jaquar " make Pressmatic Urinal Flush Valve for Urinal Pots (Cat No. 51027), with all accessories etc. complete as directed by Engineer-in-charge.	1.00	Each	1,320.00	1,320.00
47	Supply & fixing "Marc" make Oriental series brass bib cock with all accessories. etc. complete as directed by Engineer-in-charge.	1.00	Each	506.00	506.00
48	Supply & fixing "Jaquar" make Pressmatic Pillar cock with all accessories etc. complete as directed by Engineer-in-charge.	1.00	Each	519.00	519.00
49	Supply & fixing "Marc" make Oriental series brass stop cock with all accessories etc. complete as directed by Engineer-in-charge.	2.00	Each	698.00	1,396.00
50	Supplying & fixing in position with suitable with PVC pipe of approved quality including chasing brick work / concrete and making good the same after replacing wherever necessary etc. complete including all accessories like bends, tees, elbows etc. - 75 mm (3") dia etc. complete as directed by Engineer-in-charge.	10.00	R M	80.78	807.80
51	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.	2.00	Each	200.00	400.00

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
52	Providing and placing on terrace (at all floor levels) of polyethylene water storage tank of 500 ltrs capacity with double layer of make sintex/Aqua tech as per ISI 12701/96 with cover and suitable locking arrangement and making necessary holes for inlet and outlet and overflow pipes with fittings (ballcock, inlet and outlet nipples) without base support for tank. (Brick work will be paid separately) etc. complete as directed by Engineer-in-charge.	1.00	Each	3,000.00	3,000.00
53	Supplying and fixing plain PVC pipe of 90 mm dia 4kg/sq.m of make Prince/ Sudhakar or any ISI brand with specials, accessories and approved sealing / jointing compound on the exterior of the inserted portion of the fitting and fixing in position and jointing to MS gutters, including cost of all materials, sealing compound, labour etc., for all heights etc. complete as directed by Engineer-in-charge.	15.00	R M	103.86	1,557.90
54	Supplying, laying, jointing and testing 101.6 mm (4") 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) up to 1524 mm (5'0") depth and refilling with watering and tamping etc. complete as directed by Engineer-in-charge.	15.00	R M	348.00	5,220.00
55	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. **	15.00	R M	471.00	7,065.00
56	Supply & fixing 12.7 mm PVC connection with brass union nut CP coated etc. complete as directed by Engineer-in-charge.	2.00	Each	67.00	134.00
57	Supply & fixing of P Trap 1st Quality ISI marked conforming to IS:1729 - 1979 with CP grating fixing with white cement as per site requirements with standard practice - 100 mm dia (4") etc. complete as directed by Engineer-in-charge.	1.00	Each	512.00	512.00
58	Supply & fixing 15 mm dia Nominal Bore GI pipe medium 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	50.00	R M	131.00	6,550.00
	b) .. Do... 20mm dia (3/4")	40.00	R M	146.00	5,840.00
	c) .. Do... 25mm dia (1")	25.00	R M	191.00	4,775.00
59	Providing and laying non-pressure NP2 class (light duty) R C C Pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete - 250 mm dia of RCC Pipe etc. complete as directed by Engineer-in-charge.	100.00	R M	258.20	25,820.00

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
60	Supply & fixing of GM peet valves, heavy quality, ISI marked Leader/Zoloto make of nominal bore for 15 mm (1/2") dia etc. complete as directed by Engineer-in-charge.	2.00	Each	242.00	484.00
a)	.. Do... 20mm dia (3/4")	1.00	Each	327.00	327.00
c)	.. Do... 25mm dia (1")	1.00	Each	482.00	482.00
61	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. **	5.00	Each	321.00	1,605.00
62	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.**	5.00	Each	321.00	1,605.00
63	Providing & fixing PVC ventilating cowl of 110 mm dia etc. complete as directed by Engineer-in-charge.	1.00	Each	14.00	14.00
64	Supply & fixing of PTMT waste coupling for wash basin and sink, of approved quality and colour. Waste coupling 31 mm of 79 mm length and 62 mm breadth weighing not less than 45 grams etc. complete as directed by Engineer-in-charge.	1.00	Each	75.80	75.80
65	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.**	25.00	Sq. m	764.00	19,100.00
66	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.	4.50	Sq. m	810.00	3,645.00
ROAD WORK					
67	Preparation and consolidation of sub grade with power road roller of 8 to 12 Tonne capacity, after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidation with road roller including making good the undulation etc. and re-rolling the sub grade and disposal of surplus earth lead upto 50 meters etc. complete as directed by Engineer-in-charge.	13,240.00	Sq. m	33.90	4,48,836.00

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
68	Supply and stacking at site of 63 mm to 45 mm size stone aggregate etc. complete as directed by Engineer-in-charge.	648.00	Cu. m	768.45	4,97,955.60
69	Supply and stacking of morrum at site etc. complete as directed by Engineer-in-charge.	216.00	Cu. m	421.85	91,119.60
70	Laying, spreading and compacting stone aggregate of specified sizes to WBM specification, including spreading in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8 - 10 Tonne in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate watering and compaction to the required density etc. complete as directed by Engineer-in-charge.	648.00	Cu. m	192.55	1,24,772.40
71	Preparation and applying tack coat using bitumen emulsion (rapid setting) complying with IS 8887 - 1995, spraying the bitumen emulsion with mechanically operated spray unit, cleaning and preparing the existing road surface as per specifications on WBM @ 0.4 Kg/Sq. m etc. complete as directed by Engineer-in-charge.	3,240.00	Sq. m	18.00	58,320.00
72	Providing and laying Bitumen penetration macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade including required key aggregate as specified, spreading coarse aggregate with the help of self propelled / tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete including consolidation with road roller of minimum 8 to 10 tonne capacity to achieve specification values of compaction and surface accuracy for 50 mm compacted thickness using coarse aggregate of size 12.5 mm graded @ 0.15 Cu. m per 10 Sq. m with paving asphalt 80/100 @ 50 Kgs per 10 Sq.m etc. complete as directed by Engineer-in-charge.	3,240.00	Sq. m	219.75	7,11,990.00
ELECTRTICAL WORKS					
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.	10.00	Point	372.00	3,720.00
(b)	---do--- for 10 Amps Power Switch cum sockets for chargers, pedestal fans and emergency lamps with 1.5 Sq. mm cable.	6.00	Point	372.00	2,232.00
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 or equivalent type of 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.	10.00	Set	250.00	2,500.00

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
(b)	Supply and fixing of 230 V, 10 Amps switch cum sockets of ROMA code: 21 003 & 30 373 of Anchor make or equivalent type of North-West make fixed on a suitable Modular type concealed box with suitable top cover for item 1 (b).	6.00	Set	400.00	2,400.00
3	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 etc. complete as directed by Engineer-in-charge. Make: Philips/Asian Electronics	6.00	Set	1,800.00	10,800.00
4	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
NET WORKING					
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	2.00	Each	434.00	868.00
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 etc. complete as directed by Engineer-in-charge.	4.00	Each	434.00	1,736.00

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
3	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.	1,000.00	R M	3.00	3,000.00
	Total			Rs.	1,17,30,044.71
	Add increase in Vat 1% over the material cost (70% of Above value)			Rs.	82,110.31
	Total value of work			Rs.	1,18,12,155.02
Total : Rs. One crore eighteen lakhs twelve thousand one hundred fifty five and two paise only					

Note: ** Structural steel/MS reinforcement steel, colour galvalume sheets will be issue by BHEL on free of cost at their stores. For RMC items contractor has to arrange cement on his own cost.	
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% value of the the contract value executed.
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