



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-18/2011-12, Dt: 15.12.2011

**PRICE BID**

Item no.: 4

**Name of work: Providing of parking area, office rooms etc., at new pipe & plate yard near ET Hostel.**

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1a	<b>Earth work in excavation in all soils</b> 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.	218.00	Cu.m	103.40	22,541.20
b	----do---- up to First additional depth of 1.50 M to 3.00 M.	67.00	Cu.m	122.30	8,194.10
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 <b>1:4:8</b> (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size).	46.00	Cu.M	1,560.50	71,783.00
3a	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement, including consolidation by vibrations for all works <b>up to plinth level</b> with <b>1:1½:3</b> (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size).	145.02	Cu.M	1,641.30	238,021.33
b	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement, including consolidation by vibrations for all works <b>up to Floor five level</b> with <b>1:1½:3</b> (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size).	47.00	Cu.m	2,042.60	96,002.20
4a	<b>Centering</b> and shuttering including strutting, propping etc; and removal of form work, walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc; - <b>Upto Plinth level.</b>	220.00	Sq.M	180.40	39,688.00
b	<b>Centering</b> and shuttering including strutting, propping etc; and removal of form work, for columns, pillars, piers, abutments, machine foundations, posts and struts- <b>Above Floor level.</b>	425.00	Sq.m	238.40	101,320.00
5	<b>Reinforcement for R.C.C. work</b> including straightening, cutting, bending, placing in position and binding grills with binding wire all complete by cold twisted bars.	15.42	M.T	4,003.00	61,726.26
6	<b>Conveyance</b> of excavated spoil up to a lead of 2 Kms, including loading, unloading and spreading etc. complete as directed by Engineer- in- charge.	175.00	Cu.M	56.41	9,871.75

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
7	<b>Brick work with clay fly ash FPS brick of class</b> designation 75 in super structure above plinth level upto floor five level in cement mortar 1:6 (1 cement : 6 Coarse sand).	54.00	Cu.M	1,808.00	97,632.00
8	Plastering in <b>CM 1:6, 20 mm</b> thick to internal and external surfaces of walls including the cost of all materials, labour, curing etc., complete -Upto 10.00 M level.	634.00	Sq.m	65.80	41,717.20
9	Cement Plaster to <b>ceiling</b> /walls with <b>12mm</b> thick cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement : 3 fine sand) .	265.00	Sq.m	59.00	15,635.00
10	Plastering over <b>roof slab in CM 1:4, 20mm</b> thick mixed with water proofing compound, Make: "Sika" @ 3% by weight of cement as per manufacturer's specification, curing as directed. Rate quoted shall include finishing, cost of all materials and labour etc., complete. (Cement =7.69 kgs/sq.m x3% WP@ Rs 20.00 per kg = Rs 4.61) upto 10 m height.	185.25	Sq.m	81.30	15,060.83
11	<b>Filling</b> with available excavated earth (excluding rock) in trenches, 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.	150.00	Cu.M	45.70	6,855.00
12	Supply & fixing of full height aluminium door with double leaf manual slide opening mechanism at main entrance in required size made out of anodised aluminum box section of size 44.50x47.50x2 mm for verticals, top and middle rails and 101.60x44.50x2 mm for bottom rail inclusive of supply & fixing of all aluminium fixtures and fittings suitable to the door sliding mechanism, handles, suitable locking arrangement etc. complete, wherever members are joined wooden runners are to be inserted in the box section. This includes grouting of rails/aluminum sliding sections to the floor properly etc. complete as directed by Engineer-in-charge.Providing & fixing of 12 mm toughened glass with rubber beading with screwless snap on clips etc. for top portion of the door frame of approximate size 3' x 2.5' on each door leaf and 12 mm thick "Novapan" particle board, exterior grade, laminated on both sides fixed to bottom portion of the door frame of approximate size 3' x 4.5' on each door leaf with rubber beading, screwless snap on clips etc. complete. (No. of door -1,  door leaf - 2 Nos.and the approximate size of the door is 1.8x2.4 m - 2 Nos. & 1.2x2.1 m - 2 Nos.	15.10	Sq.m	4,000.00	60,400.00

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
13	Supply and fixing of top fixed, side hung of NCL Seccolor Ajantha windows & Ventilators fabricated from Roll formed section made of pre painted steel (Base steel as per IS 513 of 0.6 mm thick, 'D' quality, galvanized as per IS 277 with zinc 120 GSM / Sq. Mtr). Section for shutter should be of 46 x 46 mm, external frame should be of 46 x 52 mm, section for glass beading should be of 18 x 25 mm & center mullion should be 46 x 70 mm. The sections to be cut to length, meter joined with corner bracket. Centre mullions are to be fixed using mullion cap. Handle made of high grade aluminium powder coated & with nylon receiver & glazed with 5 mm thick, Modi/Saint Gobain float glass. Gasket made of E.P.D.M. Corner brackets made of C.R.C.A with zinc phosphating. Million caps made of glass filled nylon. The above frames should be fixed to the concrete / masonry walls by means of self expanding screws. Approximate size of windows 1.30mx0.9m and 3.00mx2.10m -Double shutter without guard bars(grills)... Excise duty/nap on clips etc. complete. (No. of door -1, nly	37.20	Sq.m	4,046.00	150,511.20
14	Supply and fixing of aluminum window grills of size 1.50 Mx1.80M approx and 1.20 mx1.80M approx . along with aluminium frame consisting aluminium 'F' (solid) 0.80kg/12' supply and fixing of design of 2" 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. (The material shall be aluminium alloy :6063, thick 7 mm, ultimate tensile strength more than 19 kgs/sq.mm).	37.20	Sq.m	1,540.00	57,288.00
15	Supplying and laying of <b>vitrified tiles</b> of brighter shades and marble design of Premium Quality (1st quality ) in required texture, design and colour, for flooring /skirting /cladding using vitrified tiles of size <b>600 x 600mmx8 mm</b> thick of approved make. It includes cost of cutting, champering of tiles to required size, with base of Conmax C - 500 tile adhesive for fixing tiles on existing mosaic/cement flooring, jointing the tiles with colour tint etc. complete as directed by Engineer-in-charge. 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, making pockets for electrical, communication, network cables etc. complete as directed by Engineer-in-charge. Amount will be paid on the basis of measurement for finished work only.	120.00	Sq.m	950.00	114,000.00
16	Supply and fixing glazed steel windows and ventilators of approved make including supply and fixing 4 mm thick plain glass with best quality putty. MS handles and peg stays including painting with two coats of synthetic enamel paint over one coat of red oxide paint including supplying and fixing weldmesh 50 x 50 mm (8G x 8 g). The window section and fabrication shall confirm to I.S. 1038.	2.00	Sq.m	1,114.00	2,228.00

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
17	Applying <b>exterior</b> 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).	319.00	Sq.m	20.55	6,555.45
18	Applying <b>two coats of oil bound distemper</b> of given shade <b>over a coat of primer</b> including through cleaning of the surfaces, cost of all labour and other incidentals. (Only OBD, OBD Primer Paint will be supplied by BHEL)	587.00	Sq.m	29.00	17,023.00
19	Applying two coat of <b>Synthetic enamel paint</b> of given shade over a coat of primer to new wood work including scraping the surfaces, cost of all labour, tools and other incidentals etc. complete.	6.00	Sq.m	20.00	120.00
20	Flooring in 25mm thick using 1 cement and 3 parts of granite stone chips of 3 to 10mm gauge (no sand) ellis pattern first sort including neat finishing , curing, cost of materials etc; complete.	86.00	Sq.m	130.40	11,214.40
21	Supply & fixing in position PVC Pipes of 110 mm dia of 6 Kg/Sq. cm of approved quality and conforming to IS:4985/2000 with specials, accessories and approved sealing / jointing compound on the exterior of the inserted portion and jointing to MS gutters, including cost of all materials, sealing compound, labour etc., for all heights complete.	12.00	R M	211.00	2,532.00
22	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 consolidating with road roller including making good the undulations etc; and re-rolling the sub grade and disposal of surplus earth lead upto 2.00 KM	2,800.00	Sq.m	33.90	94,920.00
23	Supply & Stacking of stone dust including transportation and spreading as directed by Engineer-in-charge.	280.00	Cu.m	753.20	210,896.00
24	Supply & fixing of heavy duty factory made hydraulically pressed and mechanically compacted pre-cast concrete designed pavers of 200 X 100X 80 zig zag paver including of spreading of stone dust properly 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 seperately.	2,800.00	One Sq. m	556.30	1,557,640.00

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
	<b>Sanitary Fittings</b>				
25	Supply and fixing of new urinary pans, "Parry ware" make, ceramic, Model (Cat 0575)- "New Magnum Urinal" (600 mm x 400 mm) along with all accessories, C.P 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, in regular colour etc., complete - The rate quoted shall also include cost of dismantling existing urinary pans with all fittings and handing over to divisional stores.- The rate quoted shall also include cost of dismantling existing urinary pans with all fittings and handing over to divisional stores.	4.00	Each	3,933.00	15,732.00
26	Supply and fixing with "Parry ware" make Cascade series wash hand basin below counter, oval basin of size 550 mm x 450 mm with all accessories like brackets, screws, PVC connections etc., complete . Colour: Silky Off White. Code No.: C0418 - The rate quoted shall also include cost of dismantling existing wash hand basin with all fittings and handing over to divisional stores.	2.00	Each	2,024.00	4,048.00
27	Supply and fixing of new "Parry ware" make Elite - European water closet of size 530 mm x 400 mm, with "P/S" trap including PVC Slimline Dual flush tank (Cistern) of size 475 mm x 318 mm (Code No. C8109), EWC standard seat cover (Cat C8071) with all accessories like Parryware flush kit suitable to the above flush tank, brackets, screws, connecting pipe from flush tank to EWC, PVC Connections etc. complete. Colour: Silky Off - White.	1.00	Each	2,000.00	2,000.00
28	Supply and fixing of new "Parry ware" make Indian Water Closet, Orissa pan of size 580 mm x 410 mm - Open rim (Code No. C0109) including PVC Slimline Dual Flush tank (Cistern) of size 475 mm x 318 mm (Code No. C8109) with all accessories like Parryware flush kit suitable for the above flush tank with all required accessories etc., complete. Colour: Silky Off - White.	2.00	Each	3,000.00	6,000.00
29	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.	1.20	Sq.m	1,445.00	1,734.00

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
30	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 moulded 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).	5.04	Sq.m	1,830.00	9,223.20
31	Supply and Fixing door,frame made out of 100 X 75 mm teak wood scantlings including supply and fixing in position single leaf flush shutters of 30 mm thick commercial ply of approved make , supply and fixing anodised aluminium fixtures and fittings , 3 Nos of MS hinges 4" long , 6 Nos of MS hold fasts of 150 X 150 mm made out of 200 X 50 X 6 mm fixed to the frame with suitable screws and painting the sides of the frame coming into contact with, masonry with on coat of bitumen paint etc, complete. (The fixtures and fittings shall consist of 16 mm dia 30 cm long aldrip 1 No. 1 No. of 12mm dia 230 mm long tower bolt and 150 mm long plate handles 2 No.s door stoppers - 1 No.) Bottom 300 mm height is to be fixed with decolam on both sides of the shutters as kick plate.	2.10	Sq.m	3,180.00	6,678.00
32	Supply & fixing "Jaquar" make urinal flushing valves for urinal pots in all accessories/Cat: 1077.	4.00	Each	1,320.00	5,280.00
33	Supply & fixing "Marc" make oyster series brass bib cocks. With all accessories / Cat: MOY 1030.	3.00	Each	506.00	1,518.00
34	Supply & fixing "Jaquar" make Pressmatic pillar cock for wash basins, with all accessories. (Cat: 031)	2.00	Each	519.00	1,038.00
35	Supply & fixing "Marc" make oyster series brass stop cocks. (Cat: MOY 1040) with all accessories.	5.00	Each	698.00	3,490.00
36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, bottle green , black of any size as approved by engineer-in-charge in skirting , risers of steps and dados over 12mm thick bed of cement mortar 1:3 (1cement : 3 coarse sand) and fixing tiles with grey cement slurry @ 3.3 Kg per Sq.m including poniting in white cement mixed with pigment of matching shade complete.	48.00	Sq.m	502.00	24,096.00

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
37	Supply & fixing of <b>18 mm thick</b> best quality approved colour and design machine cut <b>mirror polished granite slabs</b> 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.	25.00	Sq.m	3,070.92	76,773.00
38	Supply & fixing in position PVC Pipes of 3" dia of best quality for drainage lines / urinal / hand wash areas including chasing the brick wall, concrete etc and making good the same after fixing the same etc. complete.	5.00	R M	108.70	543.50
39	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.	1.00	Each	200.00	200.00
40a	Supply & fixing <b>15 mm dia Nominal Bore GI pipe, Class B medium Grade properties</b> 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. Make: Tata / Jindal / Zenith	10.00	R M	131.00	1,310.00
b	.. Do... 20mm dia (3/4")	22.00	R M	146.00	3,212.00
c	.. Do... 25mm dia (1")	52.00	R M	191.00	9,932.00
41a	Supply & fixing of GM peet valves, heavy quality, ISI marked Leader/Zoloto make of nominal bore for 15 mm (1/2") dia	1.00	Each	242.00	242.00
b	.. Do .. 20mm dia (3/4")	2.00	Each	327.00	654.00
c	..do ...25mm dia (1")	3.00	Each	482.00	1,446.00
42	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 <b>gully trap</b> 150 mmx100mm including cost of excavation, PCC 1:4:8, 75 mm thick, all materials, labour etc., complete.	1.00	Each	321.00	321.00
43	Providing and placing on terrace (at all floor levels) of <b>polyethylene water storage tank of 1000 ltrs capacity</b> 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 seperately).	1.00	Each	6,000.00	6,000.00
44	Supplying and fixing <b>plain PVC pipe of 90 mm dia</b> of approved quality 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 complete.	17.00	R M	103.86	1,765.62

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
45	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 anysoil (except rock requiring blasting) up to 1524 mm (5'.0") depth and refilling with watering and tamping.	100.00	RM	254.00	25,400.00
46	Supplying, laying, jointing and testing 101.60 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 anysoil (except rock requiring blasting) up to 914.40 mm (3'.0") depth and refilling with watering and tamping.	3.00	One RM	149.00	447.00
47	Supply & fixing <b>PVC Ventilating cowl</b> of 110 mm dia.	1.00	Each	14.00	14.00
48	Supply & fixing 12.7 mm PVC connection with brass union nut CP coated.	5.00	Each	67.00	335.00
49	Supply & fixing <b>P Trap</b> 1st quality ISI marked conforming to IS: 1729 - 1979 with CP grating fixing with white cement as per site requirements with standard practice - <b>100 mm dia (4")</b> .	5.00	Each	512.00	2,560.00
50	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 including earth work excavation in all soils, refilling around the chamber removing the surplus earth etc. complete as directed.CI frame and cover of 40 kgs.	2.00	Each	2,742.00	5,484.00
51	Providing and Fixing 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 gms.	2.00	Each	75.80	151.60

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
52a	Constructing Brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56 m dia at top in cement plaster 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand:6 graded stone aggregate 40mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement all complete as per standard design. - 0.91 M deep with S.F.R.C cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter conforming to IS : 12592, total weight of cover and frame to be not less than 182 Kg; fixed in cement concrete 1:2:4 (1 cement : 2coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) - with FPS Bricks class designation 75.	2.00	Each	4,170.00	8,340.00
b	Extra depth for circular type manhole 0.91 m internal dia (at bottom) with beyond 0.91 m to 1.67 m - with FPS bricks class designation 75.	2.00	Each	2,236.50	4,473.00
	<b>Total</b>			<b>Rs.</b>	<b>3,341,816.83</b>
	<b>Add increase in Vat 1% over the material cost (70% of contractor scope)</b>				<b>23,392.72</b>
	<b>Total value of work</b>				<b>3,365,209.55</b>
<b>Total : Rs. Thirty three lakhs sixty five thousand two hundred and ten only</b>					

**Service tax:** Service tax is extra as applicable, which will be reimbursable to the agency on production of Valid documents.

**Note :** The bidders are required to quote the tender value on percentage (%) basis at excess or less or on par with estimate value.

Tender %	In figure	In words
Excess		
Less		
Estimated value		

Name of the Contractor :

Signature of the Contractor

Accounts Representative

Opening officer