



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-37/15-16, Dt: 08.01.2016

PRICE BID - II

Item no.: 1

Name of work:- Providing toilet at 01 annexe for physically handicapped persons and Provision of ladies toilet in ground floor, 02 annexe.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
1	Dismantling reinforced cement concrete / plain cement concrete and disposing of debries upto a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.	21.50	Cu.m	1,054.10	22,663.15
2	Dismantling brick masonry walls for all heights, removing and clearing the debries 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.	3.00	Cu.m	641.75	1,925.25
3	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkats, archi remove the existing window along with frames including chasing brickwork /concrete and stacking them as directed by Engineer-in-charge.	3.00	Each	101.70	305.10
4	Removing of wall plastering along with Glazed tiles from walls and flooring and skirting, raking out joints and cleaning the surface for plastering including disposal of rubbish to the dumping ground within a lead of 50.00 M.	26.00	Sq.m	35.30	917.80
5	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.	15.00	Cu.m	130.80	1,962.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
6	Providing and laying in position specified grade, of Reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - all work up to plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) -(Cement only will be issued on free of cost by BHEL)	2.00	cu.m	2845.50	5,691.00
7	Providing and laying in position specified grade, of Plain cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - all work up to plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) -(Cement only will be issued on free of cost by BHEL)	1.00	cu.m	2656.00	2,656.00
8	Centering and shuttering including strutting, propping etc.; and removal of form work, for columns, pillars,peirs,abutments,foundations, posts and struts	10.00	Sq.m	166.90	1,669.00
9	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.	0.10	M.T	7369.00	736.90
10	Brick work with FPS bricks of class designation 75 in superstructure above plinth level up to ground floor in all shapes and sizes in cement mortar 1:6.(Cement only will be issued on free of cost by BHEL)	4.00	Cu.M	2956.60	11,826.40
11	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 10.00 M level.(Cement only will be issued on free of cost by BHEL)	87.00	Sq.m	124.00	10,788.00
12	Applying two or more coats of distemper with oil bound washable distemper of approved brand and manufacture to given an even shade including preparation of the surface, cost of all labour, material and other incidentals including priming coat with cement primer.(OBD only will be issued free of cost by BHEL)	174.10	Sq.m	54.10	9,418.81
13	Applying two coats of synthetic enamel paint of given shade old wood work including scraping old surfacess, cost of all labour, tools and other incidentals etc. complete.(Only Synthetic enamel Paint will be supplied by BHEL)	10.00	One Sq.m	36.30	363.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
14	Supply and fixing of new urinary pans, "Parry ware" or other equivalent make make, ceramic, Model (Cat 0575)- "New Magnum Urinal" (590 mm x 400 mm) along with all accessories, C.P spreader brackets etc., along with partition for Magnum Urinal ceramic, 'Z' type brackets to be screwed to the wall at the bottom. Colour - Silky Off - White	2.00	Each	5,354.50	10,709.00
15	Supply and fixing with "Parry ware" or other equivalent make make Cascade pedestal ceramic wash hand basin of size 630 mm x 450 mm and pedestal size 705 mm height, with centre tap hole with all accessories like brackets, screws, PVC connections nad single 15 mm CP brass pillar cock etc. complete. Colour: Silky Off - White.	4.00	Each	1,628.95	6,515.80
16	Supply and fixing of new "Parry ware" or other equivalent make confirming to IS-7231 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.	3.00	Each	2,885.10	8,655.30
17	Supply and fixing of new "Parry ware" or other equivalent make Indian Water Closet, Orissa pan of size 580 mm x 440 mm with integral type foot rests - with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required etc., complete. Colour: Silky Off - White.	1.00	Each	2964.10	2,964.10

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
18	Providing and fixing vitreous china dual purpose closet suitable for use as squatting pan or European type water closet with seat and lead fixed with CP brass hinges and rubber buffers, 10 litre low level flushing cistern with fitting and brackets, 40 mm flush bend, 20 mm over flow pipe, with specials of standard make and mosquito proof coupling of approved municipal design complete. Including painting of fittings and brackets, cutting and making good the walls and floors wherever required. White vitreous china dual purpose WC pan with white solid plastic seat and lid with white vitreous china flushing cistern and C.P flush bend.	1.00	Each	5744.30	5,744.30
19	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 1500x450 mm, including cost of all materials etc. complete.	2.20	Sq.m	1,211.00	2,664.20
20	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.	11.00	RM	219.05	2,409.55
21	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.	6.00	RM	150.10	900.60

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
22	35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded solid PVC profiles, 5 mm (± 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mm x 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitered cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5 mm thick solid PVC Lock rail of size 115 mm x 35 mm, out of which 75 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge. Decorative finish (wood grained finish)	9.00	Sq.m	3,100.00	27,900.00
23	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). with Second class teak wood.(Qty. for one door)	0.06	cum	85813.30	5,148.80
24	Supply & fixing "Marc" make Oreintal series brass bib cocks, with all accessories / Cat: MOR 1030.	7.00	Each	397.50	2,782.50
25	Supply & fixing "Marc" make oyster series brass pillar cock for wash basins, with all accessories. (Cat: MOY1010)	4.00	Each	202.25	809.00
26	Supply & fixing "Marc" make Oyster series brass stop cock with all accessories.	6.00	Each	426.55	2,559.30
27	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 jointing with grey cement slurry @ 3.3 Kg per Sq.m including pointing in white cement mixed with pigment of matching shade complete.	93.00	Sq.m	724.25	67,355.25

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
28	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. 1640/- per Sq. m and granite slabs of required design and colour will be selected by department.	36.00	sq.m	2626.00	94,536.00
29	Supply & fixing in position PVC Pipes of 3" dia(as per IS 6kg/sq.m) 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.	26.00	RM	134.4	3,494.40
30	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.	3.00	Each	197.40	592.20
31	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. Make: TATA/JINDAL/ZENITH	25.00	RM	161.60	4,040.00
32	.. Do... 20mm dia (3/4")	50.00	RM	188.05	9,402.50
33	.. Do... 25mm dia (1")	35.00	RM	243.15	8,510.25
34	Supply & fixing of ball valve (brass) of approved quality, High or low pressure, with plastic floats complete. nominal bore for 15 mm (1/2") dia	4.00	Each	258.05	1,032.20
35	.. Do .. 20mm dia (3/4")	2.00	Each	360.20	720.40
36	.. .do ...25mm dia (1")	3.00	Each	421.65	1,264.95
37	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.	2.00	Each	1278.30	2,556.60

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
38	Construction of brick circular Manhole of 1.22 M at bottom and 0.56 m dia in cement mortar 1:4 (1 cement: 4 coarse sand), inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement: 4 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 finished with a floating coat of neat cement all complete as per standard design, complete. 1.68 m deep with SFRC cover and frame, 560 mm 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 including centring shuttering all complete. With FPS brick class designation 75.	1.00	Each	5457.00	5,457.00
39	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand: 4 graded stone aggregate 40mm nominal size) cement plastered on both side with cement mortar 1: 3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement and making necessary channel for the drain etc. complete. for pipes 250mm to 300 mm diameter.	1.00	each	333.15	333.15
40	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	7837.00	15,674.00
41	Providing and placing on terrace (at all floor levels) of polyethylene water storage tank of 1000 ltrs capacity with double layer approved brand and manufacture as per ISI 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).	2.00	Each	6100.00	12,200.00
42	Removing the existing one and Supply and fixing Magnum urinal partition with all accessories. Make: Parryware	2.00	Each	2,796.00	5,592.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
43	Removing the existing one and Supply and fixing urinal spreader with all accessories. Make:Parryware	2.00	Each	420.00	840.00
44	Supply and fixing of stainless steel tubular railing 15 mm dia, 0.5-0.6 m length for holding .	12.00	Each	500.00	6,000.00
45	Supplying and fixing plain PVC pipe of 110 mm (4 kg/sqcm)dia 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.	16.00	R M	196.80	3,148.80
46	Supply & fixing PVC Ventilating cowl of 110 mm dia.	2.00	Each	13.82	27.64
47	Supply & fixing 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") .	2.00	Each	505.34	1,010.68
48	Supply and fixing of Soap dish	2.00	Each	475.30	950.60
49	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 weld mesh 50 x 50 mm (8G x 8 g). The window section and fabrication shall confirm to I.S. 1038.	1.10	Sq.m	1076.12	1,183.73
50	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.	7.00	Point	329.66	2307.62
51	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.	7.00	Set	221.55	1550.85

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
52	Supply, Shifting, Assembly, Erection, Testing & Commissioning of complete units of 2x36W Phillips make of Tube light fittings. The light fitting shall be fixed with suitable down rod, ball & socket etc. and the supply of the material is in the contractor's scope .The job includes supply of 1.5sq.mm copper wire for connection between ceiling rose and TL.	5.00	Each	3096.45	15482.25
53	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. Make: Orient/Usha/Crompton.	1.00	Set	1417.92	1417.92
	Total Value of work			₹	4,17,365.85

Note:

1	A penalty of 0.5% of the gross value of work will be levied for every week's delay of work or part there of subject to a maximum penalty of 10% of the gross value of work executed after the period of completion.
2	The rates are inclusive of all taxes and duties except Service tax, which is extra as per service tax norms will be paid by BHEL to the agency after submission of necessary documents.

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

Tender %	In figure	In words
Excess		
Less		
Estimated value		