



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT- 10 /2010-11 , Dt: - 29.07.2010

**PRICE BID**

Item no : 04

**Name of work : Renovation of toilets in 06 block, 01 compressor bay  
and 11 PS.**

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
<b>PART- I : CIVIL WORKS</b>					
1	<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.	3.00	Cu.M	103.40	310.20
2	<b>Earth work in excavation</b> by mechanical means (Hydraulic Excavators) / manual means over areas (exceeding 30 cm in depth , 1.5 m in width as well as 10 Sq.m on plan) including disposal of excavated earth , lead upto 50 m and lift upto 1.5 m, disposing earth to be levelled and neatly dressed for <b>Hard Rock</b> (Blasting prohibited).	3.00	Cu.M	325.25	975.75
3	<b>Filling with available excavated earth</b> (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.	3.00	Cu.M	45.70	137.10
4	Providing and laying in position <b>cement concrete</b> 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 ).	3.00	Cu.M	2449.00	7347.00
5	<b>Reinforcement for RCC work</b> including straightening, cutting, bending, placing in position and binding grills with binding wire all complete by cold twisted bars.	0.30	M T	42700.00	12810.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
6	<b>Brick work</b> 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.	4.00	Cu.M	2357.40	9429.60
7	Providing and laying in position specified grade of <b>reinforced cement concrete</b> 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 ).	1.00	Cu.M	3732.00	3732.00
8	Providing and laying in position specified grade of <b>reinforced cement concrete</b> excluding the cost of centering, shuttering, finishing and reinforcement, including consolidation by vibrations for all works <b>upto floor five level</b> with 1:11/2 :3 (1 Cement : 11/2 coarse sand : 3 graded stone aggregate of 20 mm nominal size).	3.00	Cu. M	4092.35	12277.05
9	<b>Centering</b> and shuttering including strutting, propping etc. and removal of form work, for columns, pillars, peirs, abutments, machine foundations, posts and struts.	3.00	Sq.m	180.40	541.20
10	Cement Plaster to <b>ceiling</b> / walls with <b>12 mm</b> cement plaster finished with a floating coat of neat cement of mix 1:3 (1 Cement : 3 fine sand).	3.00	Sq.m	107.80	323.40
11	Plastering in <b>CM 1:6</b> , <b>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.	145.00	Sq.m	95.10	13789.50
12	Plastering over roof <b>slab in CM 1:4, 20 mm</b> thick mixed with water proofing compound, Make: Sika @ 3% by weight of cement as directed. Rate quoted shall include finishing, cost of all materials and labour etc. complete. (Cement = 7.69 Kgs/Sq. m x 3% WP @ Rs. 20.00 per kg = Rs. 4.61) upto 10 m height.	3.00	Sq.m	115.06	345.18
13	Applying two coat of <b>Synthetic enamel paint</b> of given shade over a coat of primer to <b>new wood work</b> including scraping the surfaces, cost of all labour, tools and other incidentals etc. complete.(Only Synthetic enamel Paint will be issued by BHEL on FREE of cost at their stores)	526.00	Sq.m	28.50	14991.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
14	Applying two coat of <b>Synthetic enamel paint</b> of given shade over a coat of primer to <b>steel windows</b> and ventilators including scraping the surfaces, cost of all labour, tools and other incidentals etc. complete.(Only Synthetic enamel Paint will be issued by BHEL on FREE of cost at their stores)	4.00	Sq.m	28.50	114.00
15	Applying <b>two coat of synthetic enamel paint</b> of given shade to <b>old plastered surfaces of walls</b> including scraping old surfacess, cost of all labour, tools and other incidentals etc.complete.(Only Synthetic enamel Paint will be issued by BHEL on FREE of cost at their stores)	3.00	One Sq.m	28.50	85.50
16	Applying <b>snowcem/exterior emulsion paint 2 coats</b> 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 a their stores).	3.00	Sq.m	29.90	89.70
17	Applying <b>two or more coats of oil bound distemper</b> of given shade including cost of material, scraping the old surfaces, cost of all labour and other incidentals.	3.00	Sq.m	30.20	90.60
18	Applying two or more coats of distemper with <b>oil bound washable distemper</b> 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.	505.00	Sq.m	41.60	21008.00
19	Construction of <b>brick masonry chamber</b> 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.	6.00	Each	321.00	1926.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
20	Providing and fixing 1st quality <b>ceramic glazed wall tiles</b> 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.	186.00	Sq.m	556.80	103564.80
21	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.	254.00	Sq.m	3070.00	779780.00
22	Providing and fixing <b>shutters along with frames for toilets that are 30 mm thick</b> 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).	23.00	Sq.m	1830.00	42090.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
23	Supply and fixing of <b>toilet doors along with teak wood door frame</b> 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 veneer in required colour and design and malamine 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.	13.10	Sq.m	3180.00	41658.00
24	Supply and fixing of top fixed, side hung of <b>NCL Seccolor Ajantha windows &amp; Ventilators</b> 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/VAT inclusive .Service tax as applicable is extra which will be paid by BHEL on production of valid documents.	5.40	Sq.m	4046.00	21848.40
25	Providing and placing on terrace (at all floor levels) of <b>polyethylene water storage tank of 1000 ltrs capacity</b> 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 seperately).	4.00	Each	6000.00	24000.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
26	Supply & fixing in position <b>PVC Pipes of 3" dia(as per IS 6kg/sq.m)</b> 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.	67.00	RM	108.7	7282.90
27(a)	Supply & fixing <b>15 mm dia Nominal Bore GI pipe 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	23.00	RM	131.00	3013.00
27(b)	.. Do... <b>20mm dia (3/4")</b>	120.00	RM	146.00	17520.00
27(c)	.. Do... <b>25mm dia (1")</b>	67.00	RM	191.00	12797.00
28	Supplying and fixing plain PVC pipe of <b>90 mm dia of 4 kg's/cm<sup>2</sup></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 joining to MS gutters , including cost of all materials ,sealing compound ,labour etc., for all heights complete	84.00	RM	103.86	8724.24
29(a)	Supplying, laying, jointing and testing <b>152.4 mm (6") SWG pipes</b> 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.	12.00	R M	254.00	3048.00
29(b)	Supplying,laying,jointing and testing <b>101.60 mm (4") SWG pipes</b> 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
30	Supply & fixing <b>PVC Ventilating cowl</b> of 110 mm dia.	6.00	Each	14.00	84.00
31	Supply & fixing 12.7 mm <b>PVC connection with brass union nut</b> CP coated.	9.00	Each	67.00	603.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
32	Supply and fixing of new urinary pans, "Parry ware" make, ceramic, Model (Cat 0575)- <b>"New Magnum Urinal"</b> (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	21.00	Each	3933.00	82593.00
33	Supply and fixing with "Parry ware" make <b>Cascade pedestal ceramic wash hand basin</b> of size 550 mm x 440 mm and <b>pedestal size 705 mm height</b> , with centre tap hole with all accessories like brackets, screws, PVC connections etc. complete. Colour: Silky Off - White.	5.00	Each	3000.00	15000.00
34	Supply and fixing with "Parry ware" make Cascade series <b>wash hand basin</b> below counter, <b>oval basin</b> of size 550 mm x 450 mm with all accessories like brackets, screws, PVC connections etc., complete . Colour: Silky Off - White. Code No.: C0418.	7.00	Each	2024.00	14168.00
35	Supply and fixing of new "Parry ware" make Elite - <b>European water closet</b> 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	2000.00	6000.00
36	Supply and fixing of new "Parry ware" make Indian <b>Water Closet, Orissa pan</b> 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.	11.00	Each	3000.00	33000.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
37	Supply & fixing of 6 mm thick <b>mirror</b> of approved quality " <b>Modi float/Saintgobin glass</b> ", 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.	20.00	Sq.m	1445.00	28900.00
38	Supply and fixing of "Jaquar (Allied)" make <b>Health Faucet</b> with 8 mm dia, 1 m long flexible tube and wall hook, Cat No. 573	12.00	Each	1325.00	15900.00
39	Supply & fixing "Jaquar" make Pressmatic <b>urinal flush valve</b> for urinal pots (Cat. No. 51027) with all accessories.	21.00	Each	1320.00	27720.00
40	Supply & fixing "Marc" make Oreintal series <b>brass bib cocks</b> , with all accessories / Cat: MOR 1030.	49.00	Each	506.00	24794.00
41	Supply & fixing "Jaquar" make Pressmatic <b>pillar cock</b> for wash basins, with all accessories. (Cat: 031)	10.00	Each	519.00	5190.00
42	Supply & fixing "Marc" make Oriental series <b>brass stop cock</b> with all accessories.	10.00	Each	698.00	6980.00
43	Supplying and fixing CI <b>Nahany traps</b> 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.	17.00	Each	200.00	3400.00
44(a)	Supply & fixing of <b>GM peet valves</b> , heavy quality, ISI marked Leader/Zoloto make of nominal bore for 15 mm (1/2") dia	6.00	Each	242.00	1452.00
44(b)	.. Do .. 20mm dia (3/4")	12.00	Each	327.00	3924.00
44(c)	.. .do ...25mm dia (1")	12.00	Each	482.00	5784.00
45	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> .	9.00	Each	512.00	4608.00
46	Dismantling <b>brick masonry</b> walls for all heights, removing and clearing the debries and caring away upto a lead of 2 Km including loading, unloading and spreading segregating useful materials as directed by Engineer-in-charge including the cost of all labour scaffolding etc. complete.	3.00	Cu.M	355.88	1067.64

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
47	Dismantling <b>reinforced cement concrete / plain cement concrete</b> and disposing of debries upto a lead of 2 Km including loading, unloading and spreading as directed by Engineer-in-charge etc. complete.	3.00	Cu.M	582.68	1748.04
48	<b>Dismantling teak wood door</b> with frame and shutters including chowkats, holdfasts etc. complete and stacking within 50 meters etc. complete.	7.00	Each	75.35	527.45
49	<b>Removing of wall plastering</b> 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.	436.00	Sq.m	19.10	8327.60
50	<b>Removing the existing A.C. sheets</b> carefully from factory blocks and ceiling along with 'J' bolts, nuts etc., of steel cabins and cycle sheds, transporting and stacking at BHEL stores or other specified places (upto 2 KMs., lead) as directed by Engineer-in-charge.	17.00	Sq.m	43.65	742.05
			<b>Total of Part -I</b>		<b>1458608.90</b>
<b>PART-I: ELECTRICAL WORKS</b>					
51(a)	<b>Supply &amp; Installation of lighting/fans</b> 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.	9.00	Point	372.00	3348.00
51(b)	---do--- for <b>10 Amps Power Switch</b> cum sockets for chargers, pedestal fans and emergency lamps with 1.5 Sq. mm cable.	3.00	Point	372.00	1116.00
52(a)	<b>Supply and fixing of 10 Amps, 250 V SPT switches</b> 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).	9.00	Set	250.00	2250.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
52(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).	3.00	Set	400.00	1200.00
53	Supply and installation of Energy efficient light fitting, T5 type 2 x 28 W industrial luminaire with 28W T5 <b>Flourescent lamps</b> . This includes supply & fixing of downrods, round blocks, connecting the copper twin twisted wire from ceiling rose to fitting and other accessories. Make: Philips/Asian Electronics	9.00	Set	1800.00	16200.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
54	Supply and installation of <b>300 mm (12") sweep exhaust fans</b> , 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.	3.00	Set	1600.00	4800.00
55	<b>Disconnection of power supply and dismantling of existing light fittings</b> , fans, power boards, cables and other accessories. The removed items are to be handed over to concerned section.	3.00	LS	500.00	1500.00
		<b>Total of Part -II</b>			<b>30,414.00</b>
	<b>Total (Part - I &amp; Part- II)</b>				<b>14,89,022.90</b>
<b>Total : Rs. Fourteen lakhs eighty nine thousand twenty three only.</b>					

**Service Tax:-** The Service tax as applicable is extra which will be paid by BHEL to the agency after submission of necessary valid documents by the agency.

**Note :** The Tenders are required to quote the tender value on percentage (%) basis at excess or less or on as per estimate value

Tender %	In figure	In words
Excess		
Less		
Estimated value		

**Name of the Contractor :**

**Signature of the Contractor**

**Accounts Representative**

**Opening officer**