



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

SCHEDULE- A

PRICE BID

Tender Notice No:

HY/FCD/OT-15/2008-09 , Dt: 08.12.08

Item no: 3

Name of work:- Dismantling the existing Toilet and construction of new toilet at 12 Stores

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
1	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the materials within 50 metres lead of asbestoes sheet.	15.00	Sq.m	11.75	176.25
2	Demolishing brick work manually /by mechanical means including stacking of serviceable materials and disposal of unserviceable material within 2.00 Km lead as per direction of Engineer-in-charge. - In cement mortar.	9.00	Cu.m	355.88	3202.92
3	Labour charges for removing the Sensor of urinals/ flush tanks and handing over to divisional stores as directed by Engineer incharge.	2.00	Each	80.00	160.00
4	.. do.. Wash hand basins of size 22" x 16" and handing over to divisional stores as directed by Engineer incharge.	2.00	Each	65.00	130.00
5	Dismantling doors, windows and clerestory windows (steel & wood) shutters including chowkhats , architrave , holdfasts etc. complete and stacking within 50 meters lead.	5.10	Sq.m	54.60	278.46
6	Dismantling of flushing cistern of any size including stacking of useful materials near the site as directed by Engineer-in-charge and handing over to divisional stores.	2.00	Each	143.35	286.70
7	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metre lead as per direction of engineer-in-charge for 15 mm to 40 mm nominal bore.	20.00	RM	29.05	581.00
	Construction of new toilet:				
1	Earth work in excavation by mechanical means (Hydraulic Excavtors) / manual measn in foundations trenches or drains (not exceeding 1.5m in width or 10 Sq.m on plan) including dressing of sides and ramming of bottams, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed , within a lead of 50m.	25.00	Cu.m	103.40	2585.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
2	Providing and laying in position plain cement concrete of specified grade, consolidation excluding the cost of centering and shuttering - all work up to plinth level with 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size).	5.00	Cu.m	2449.00	12245.00
3	Coursed rubble masonry (second sort) with hard stone in foundations & plinth with cement mortar 1:6 (1 Cement : 6 Coarse sand).	7.00	Cu.m	1913.10	13391.70
4	Damp Proof course over CRS Masonry in CM 1:4, 20mm thick mixed with water proofing compound, Make: "Sika" @ 3% by weight of cement as per manufacturer's specification, curing as directed. Rate 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.	5.00	Sq.m	115.06	575.30
5	Brick work with FPS bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in cement mortar 1:6	9.00	Cu.m	2357.40	21216.60
6	Filling 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 m lift upto 1.5 m .	5.00	Cu.m	45.70	228.5
7	Coneysance of excavated spoil up to a lead of 2 Kms, including loading , unloading and spreading etc. complete as directed by Engineer- in- charge.	20.00	Cu.m	56.41	1128.2
8	Reinforced cement concrete work in walls (any thickness) including consolidation by vibrations for all works attached pilasters , buttersses , plinth and string courses , fillets , columns , pillars,piers,abutments, machine foundations, Posts and struts etc. up to floor five level excluding cost of centering , shuttering , finishing and reinforcement : with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).	3.00	Cu.m	4092.35	12277.05
9	Centering and shuttering including strutting, propping etc and removal of form for walls(any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	30.00	Sq.M	180.40	5412.00
10	Reinforcement for R.C.C. work including straightening , cutting , bending , placing in position and binding all complete by cold twisted bars.	0.30	MT	42700.00	12810.00
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 height	105.00	Sq.m	95.10	9985.50

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
12	Cement Plaster to ceiling with 12mm thick cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement : 3 fine sand) . Upto 10.00 m height	18.00	Sq.m	107.80	1940.40
13	Plastering over roof slab in CM 1:4, 20mm thick mixed with water proofing compound, Make: "Sika" @ 3% by weight of cement as per manufacturer's specification, curing as directed. Rate 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.	20.00	Sq.m	115.06	2301.20
14	Supply & fixing of 18 mm thick best quality approved colour and design machine cut mirror polished granite slabs in required sizes for counter wash basins, floorings, vanity counter, claddings, facias etc. including cutting, champering, rounding and mirror polishing etc. complete as directed. Cost of granite slabs shall be Rs. 1600/- per Sq. m and granite slabs of required design and colour will be selected by department.	57.00	Sq.m	2600.00	148200.00
15	Applying two coats of oil bound distemper of given shade over a coat of primer including through cleaning of the surfaces, cost of all labour and other incidentals. (Only OBD, OBD Primer Paint will be supplied by BHEL)	123.00	Sq.m	41.55	5110.65
16	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 aldrop 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	2040.00	4284.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
17	Providing & Fixing of NCL windows & ventilators made of galvanized colour coated steel (Base steel as per IS 513 of 0.6mm thick galvanized as per IS 277 with zinc of 120 GSM). Primer coated with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with 5-7 microns thick alkyd backer. Section for shutter should be of 47x20mm and outer frame should be of 48x50mm centre mullion should be 48x50mm. Fixed glass beading section should be of 12x12mm. Outerframe and Mullions to have rebate for glazed shutters and 20mm provision for Guard Bar / Grill. The sections are to be cut to length metre joined with corner bracket. Centre mullion is to be fixed with mullion cap. Seccolor Handle, 8" stay made of aluminium 2 Nos. of stainless steel heavy duty pivot hinges shall be provided for shutter. The windows should be panelled with 5mm thick float glass. Rubber gaskets are provided all around the glass. The above frames should be fixed to the concrete/masonry wall by mean of self expanding square guard bars with 6"(152.4mm pitch) and all taxes etc., complete for finished item of work.	5.40	Sq.m	4506.70	24336.18
18	Applying two coat of synthetic enamel paint of given shade over a coat of primer to new wood work including scraping the surfacess, cost of all labour, tools and other incidentals etc.complete. - for Steel Work.	6.00	Sq.m	33.25	199.50
19	Applying two coat of synthetic enamel paint of given shade over a coat of primer to new wood work including scraping the surfacess, cost of all labour, tools and other incidentals etc.complete. - for Wood Work.	6.00	Sq.m	51.30	307.80

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
20	Supply & fixing of PVC door along with frame of Syntex make in required size. The door frame made from extruded PVC sections in an overall size of 40 mm x 48 mm having multi chamber cross section with a maximum wall thickness of 2.5 mm \pm 0.3 mm duly reinforced with PVC to be mitre cut at corners and welded. A tie rod to be provided at bottom. Necessary weather seals shall be provided. Sintex doors are made out of PVC section and panels. The door shutter is made out of extruded PVC sections solid core type with usual process variation and having a wall thickness of 2 mm with a variation of \pm 0.3 mm provided with all plastic reinforcement to avoid any type of rusting or corrodes. The shutter frame is mitered and joined at the corners by means of stainless steel screws. The corners of the shutter frame are being reinforced by polymeric reinforcement of the size 120x200 mm and the lock rail is reinforced by 20x18x255 mm size reinforcement. The rate quoted shall include the cost of brass hinges, brass aldrops and brass tower bolts etc. of suitable size and of approved make.	5.04	One Sq.m	2925.20	14743.01
	<i>Water supply and sanitary fittings:</i>				
1	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.	4.00	Each	3933.00	15732.00
2	Supply and fixing with "Parry ware" make Cascade series wash hand basin of size 550 mm x 450 mm oval shape with counter top with centre tap hole, regular in colour with all accessories like brackets, screws etc., complete .	3.00	Each	2024.00	6072.00
3	Supply and fixing of new "Parry ware" make ceramic cascade water closet suite with "P/S" trap including Cascade seat cover (Cat 8012) with all accessories regular in colour along with (water closet suite including with attached flush cistern 10 litres capacity with parry ware flush fittings) etc complete.	1.00	Each	6985.00	6985.00
4	Supply and fixing of new "Parry ware" 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 litres capacity with Parry ware wonder flush kit, regular in colour with all required accessories etc., complete.	2.00	Each	4261.00	8522.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
5	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.	1.50	One Sq.m	1445.00	2167.50
6	Supply & fixing of PVC door along with frame of Syntex make in required size. The door frame made from extruded PVC sections in an overall size of 40 mm x 48 mm having multi chamber cross section with a maximum wall thickness of 2.5 mm \pm 0.3 mm duly reinforced with PVC to be mitre cut at corners and welded. A tie rod to be provided at bottom. Necessary weather seals shall be provided. Sintex doors are made out of PVC section and panels. The door shutter is made out of extruded PVC sections solid core type with usual process variation and having a wall thickness of 2 mm with a variation of \pm 0.3 mm provided with all plastic reinforcement to avoid any type of rusting or corrodes. The shutter frame is mitered and joined at the corners by means of stainless steel screws. The corners of the shutter frame are being reinforced by polymeric reinforcement of the size 120x200 mm and the lock rail is reinforced by 20x18x255 mm size reinforcement. The rate quoted shall include the cost of brass hinges, brass aldrops and brass tower bolts etc. of suitable size and of approved make.	5.10	One Sq.m	2925.20	14918.52
7	Supply & fixing "Jaquar" make urinal flushing valves for urinal pots in all accessories/Cat: 1077.	4.00	One Each	1320.00	5280.00
8	Supply & fixing "Marc" make oyster series brass bib cocks. With all accessories / Cat: MOY 1030.	3.00	One Each	506.00	1518.00
9	Supply & fixing "Marc" make oyster series brass pillar cocks. (Cat: MOY 1010) with all accessories etc.	3.00	One Each	519.00	1557.00
10	Supply & fixing "Marc" make oyster series brass stop cocks. (Cat: MOY 1040) with all accessories.	3.00	One Each	698.00	2094.00
11	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.	12.00	One RM	345.56	4146.72

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
12	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.	2.00	One Each	200.00	400.00
13	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 poniting in white cement mixed with pigment of matching shade complete.	27.00	One Sq.m	556.80	15033.6
14	Supply and Fixing Procelain 'P' Trap	2.00	Each	152.00	304.00
15	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.	10.00	One RM	131.00	1310.00
(a)					
(b)	.. Do... 20mm dia (3/4")	30.00	One RM	146.00	4380.00
(c)	.. Do... 25mm dia (1")	30.00	One RM	191.00	5730.00
16(a)	Supply & fixing of GM peet valves, heavy quality, ISI marked Leader/Zoloto make of nominal bore for 15 mm (1/2") dia	3.00	One Each	242.00	726.00
b	.. Do .. 20mm dia (3/4")	2.00	One Each	327.00	654.00
c	.. .do ...25mm dia (1")	2.00	One Each	482.00	964.00

S No	Description of the item	Qty	Unit	Rate (Rs)	Amount (Rs)
17a	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.	20.00	One RM	183.00	3660.00
b	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 anysoil(except rock requiring blasting) up to 1524 mm(5'.0") depth and refilling with watering and tamping.	10.00	One RM	254.00	2540.00
18	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 including cost of excavation, PCC 1:4:8, 75 mm thick, all materials, labour etc., complete.	2.00	One Each	362.00	724.00
19	Construction of brick masonry chamber of dimension 0.914 x 0.457 x 0.914 m (3' x 1'6" x 3') with brick in CM 1:6 including plastering over both sides with CM 1:4, 20 mm thick and fitted with light weight CI frame and cover of size 0.914 x 0.457 m in CM 1:4 including bed concrete of CC 1:4:8 as required, supplying and fixing one CI steps in brick masonry if necessary if necessary including earth work excavation in all soils, refilling around the chamber removing the surplus earth etc. complete as directed.	2.00	One Each	1800.00	3600.00
20	Supplying and fixing position PVC tank of 1000 Liters capacity double layer of approved make including giving inlet and out let connections, cost of all materials like GI specials, labour etc, complete	1.00	One Each	6000.00	6000.00
21	Supply and Fixing PVC Ventilating cowl of 3" dia.	2.00	Each	10.00	20.00

Total: Rs 413131.26

Total in words:Four Lakhs Thirteen thousand one hundred thirty one only.

I / We have quoted above [] / below [](tick the relevant) for the rates given above.

% in words:

Name of the Contractor :

Signature of the Contractor

Accounts Representative

Opening officer