

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-09/16-17, Dt: 11.08.2016

PRICE BID

Item no.: 1

Name of work:- Renovation of toilets at west side of 51 block.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	Part-I-Civil Works				
1	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 all as directed by engineer-in-charge.	32.00	Cu.m	641.75	20,536.00
2	Dismantling PCC/RCC work by mechanical means and stockpiling at designated locations and disposal of dismantled materials upto a lead of 2.00 KM, stacking serviceable and unserviceable material separately including cutting reinforcement bars - jalle blocks of 300 x 200 x 200 mm size and handing over to stores etc., complete all as directed by engineer-in-charge.	17.00	Cu.m	1,054.10	17,919.70
3	Labour charges for removing the following broken items and replacing them with new ones which will be issued free of cost at BHEL stores including necessary repairs. The rate quoted shall include cost of fixing of necessary accessories like PVC/Alkathyne/lead pipe of suitable sizes, brackets etc., complete all as directed by engineer-in-charge.				
a	...do....PVC Doors	5.00	No.s	150.00	750.00
b	.. do.. Flat back Indian type urinals	9.00	No.s	128.00	1,152.00
c	...do.... For Flush doors	1.00	No.s	200.00	200.00
4a	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 all as directed by engineer-in-charge.	31.00	Cu.m	130.80	4,054.80
b	----do---- up to First additional depth of 1.50 M to 3.00 M.	10.00	Cu.m	165.40	1,654.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
5	Conveyance of excavated spoil up to a lead of 2 Kms, including loading , unloading and spreading etc. complete as directed by Engineer- in- charge.	50.00	Cu.M	93.94	4,697.00
6	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) - The cement will be issued free of cost by BHEL at BHEL stores etc., complete all as directed by engineer-in-charge.	8.00	Cu.m	2,606.00	20,848.00
7	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 up to plinth level with 1:1½ :3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size). The cement will be issued free of cost by BHEL at BHEL stores etc., complete all as directed by engineer-in-charge.	17.50	Cu.M	2,772.00	48,510.00
8	Centering and shuttering including strutting, propping etc.; and removal of form work, for Foundations(Raft), footings, bases of columns, etc. for mass concrete etc. upto plinth level etc., complete all as directed by engineer-in-charge.	150.00	Sq.M	166.90	25,035.00
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. - The steel will be issued free of cost by BHEL at their Stores etc., complete all as directed by engineer-in-charge.	1.40	M.T	7,369.00	10,316.60
10	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. The cement will be issued free of cost by BHEL at BHEL stores etc., complete all as directed by engineer-in-charge.	25.00	Cu.m	3,513.00	87,825.00
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 level. The cement will be issued free of cost by BHEL at BHEL stores etc., complete all as directed by engineer-in-charge.	240.00	Sq.m	124.00	29,760.00
12	Cement Plaster to ceiling /walls with 12mm thick cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement : 3 fine sand). The cement will be issued free of cost by BHEL at BHEL stores etc., complete all as directed by engineer-in-charge.	40.00	Sq.m	110.30	4,412.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
13	Applying two or more 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 will be supplied by BHEL)-For new work etc., complete all as directed by engineer-in-charge.	240.00	Sq.M	58.50	14,040.00
14	Applying exterior emulsion paint two coats over one coat of primer of given shade on old / new external plastered surfaces of walls at all heights of the building including scraping the old surfaces, cost of all labour and other incidentals. (Only exterior emulsion paint will be supplied by BHEL on free of cost and primer has to be supplied by the contractor) etc., complete all as directed by engineer-in-charge.	40.00	Sq.M	52.50	2,100.00
15	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 etc., complete all as directed by engineer-in-charge.	65.81	sq.m	3,071.00	2,02,102.51
16	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 pointing in white cement mixed with pigment of matching shade etc., complete all as directed by engineer-in-charge.	70.00	Sq.M	664.00	46,480.00
	Part-II-Sanitary Fittings				
1	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 etc., complete all as directed by engineer-in-charge.	4.00	Each	3,000.00	12,000.00
2	Supply & fixing "Marc" make Oriental series brass stop cock with all accessories etc., complete all as directed by engineer-in-charge.	8.00	Each	698.00	5,584.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
3	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 etc., complete all as directed by engineer-in-charge.	1.00	Each	2,000.00	2,000.00
4	Supply & fixing "Marc" make Oreintal series brass bib cocks, with all accessories / Cat: MOR 1030 etc., complete all as directed by engineer-in-charge.	6.00	Each	506.00	3,036.00
5	Supply and fixing of "Jaquar (Allied)" Make Health Faucet with 8 mm dia. 1 M long Flexible tube and wall hook Cat no. 573 etc., complete all as directed by engineer-in-charge.	1.00	Each	1,325.00	1,325.00
6	Supplying and fixing P trap 1st quality ISI marked conforming to IS: 1729 - 1979 with C.P Grating fixing with white cement as per site requirements with standard practice -100 mm dia (4") etc., complete all as directed by engineer-in-charge.	1.00	Each	512.00	512.00
7	Supply and fixing of new urinary pans, "Parry ware" 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 etc., complete all as directed by engineer-in-charge.	9.00	Each	3,933.00	35,397.00
8	Supply & fixing "Jaquar" make urinal flushing valves for urinal pots in all accessories/Cat: 1077 etc., complete all as directed by engineer-in-charge.	9.00	One Each	1,320.00	11,880.00
9	Supply and fixing with "Parry ware" make Cascade pedestal ceramic wash hand basin of size 550 mm x 440 mm and pedestal size 705 mm height, with centre tap hole with all accessories like brackets, screws, PVC connections etc. complete. Colour: Silky Off - White etc., complete all as directed by engineer-in-charge.	4.00	Each	3,000.00	12,000.00
10	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour - Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms etc., complete all as directed by engineer-in-charge.	4.00	Each	94.35	377.40

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
11	Supply & fixing "Jaquar" make Pressmatic pillar cock for wash basins, with all accessories. (Cat: 031) etc., complete all as directed by engineer-in-charge.	4.00	Each	519.00	2,076.00
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 etc., complete all as directed by engineer-in-charge.	4.00	Each	200.00	800.00
13	Supplying and fixing plain PVC pipe of 110 mm dia (4"dia) of 6 kg's/cm2 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 etc., complete all as directed by engineer-in-charge.	30.00	RM	342.50	10,275.00
14	Supply & fixing in position PVC Pipes of 3" (75mm) dia of 4 Kg/cm2 and 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 all as directed by engineer-in-charge.	30.00	RM	167.00	5,010.00
15	Supply & fixing in position PVC Pipes of 2" (50 mm) dia of 4 Kg/cm2 and 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 all as directed by engineer-in-charge.	30.00	RM	130.00	3,900.00
16	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 etc., complete all as directed by engineer-in-charge.	20.00	RM	526.00	10,520.00
17a	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 all as directed by engineer-in-charge.	30.00	RM	131.00	3,930.00
b	.. Do... 20mm dia (3/4")	30.00	RM	146.00	4,380.00
c	.. Do... 25mm dia (1")	50.00	RM	191.00	9,550.00
18a	Supply & fixing of Gunmetal Gate (GM peet) valve as per IS -778 class-I, Indian make heavy type 15 mm (1/2") dia NB size etc., complete all as directed by engineer-in-charge.	1.00	Each	390.00	390.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
b	.. Do .. 20mm dia (3/4")	1.00	Each	514.00	514.00
c	.. .do ...25mm dia (1")	2.00	Each	738.00	1,476.00
19	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 all as directed by engineer-in-charge.	2.00	Each	321.00	642.00
20	Supply & fixing of stainless steel liquid soap dispenser of 500ml capacity etc., complete all as directed by engineer-in-charge.	1.00	Each	580.00	580.00
21	Supply & fixing of stainless steel towel holder of size 4 X 2.5 X 7 inches etc., complete all as directed by engineer-in-charge.	1.00	Each	379.00	379.00
22	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 all as directed by engineer-in-charge.	1.80	One Sq.m	1,445.00	2,601.00
23	Constructing brick masonry circular manhole 1.22 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement :4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 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 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse 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 common burnt clay F.P.S. (non modular) bricks of class designation 7.5 etc., complete all as directed by engineer-in-charge.	1.00	Each	11,723.00	11,723.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
24	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) etc., complete all as directed by engineer-in-charge.	2.00	Each	6,000.00	12,000.00
Part-III- Structural steel Works					
1	Dismantling structural steel work in built up sections in angles, Tees, flats & Channels including gusset plates, bolts, nuts, by gas cutting, dismembering, including, weighing, conveying to specified places upto a lead of 2 KM and handing over to divisional stores for following items of work etc., complete all as directed by engineer-in-charge.	0.50	One MT	1,616.80	808.40
2a	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 BHEL stores etc., complete all as directed by engineer-in-charge.	0.50	MT	8,871.00	4,435.50
b	Erection of Steel work out lined in item No.2a above including the charges for handling, leading and stacking at site at approved locations prior to erection including all site rivetting, bolting, jointing and site welding where ever required etc. complete all as directed by Engineer-in-charge.	0.50	MT	3,802.00	1,901.00
3	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 all as directed by engineer-in-charge. The required paint only will be issued free of cost by BHEL at BHEL stores.	0.50	MT	696.07	348.04

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	Part-IV- Electrical works				
1	Supply, Erection and Testing of 230V ,18" dia (450mm), 50W, 900rpm, 1200cu.M/hr Exhaust Fans , The job includes suitable holes in the wall inclusive of masonry work or by making suitable MS frame above +20 ft. approximately from ground level etc., complete all as directed by engineer-in-charge.	3.00	Nos	2,800.00	8,400.00
2	Supply, Assembly, Erection and Testing of 1x28W tube Light fittings along with bulb. Phillips make. Cat. No.TCW450 1XTL528W EBS The light fitting shall be fixed with suitable down rod, ceiling rose, ball & socket etc. and the supply of the material is in the contractor's scope. The job includes supply of 1.5 sq.mm copper wire for connection between ceiling rose and TL. Note: (MRP.3526 - 20%) etc., complete all as directed by engineer-in-charge.	3.00	Nos	2,820.00	8,460.00
3	Supply and fixing of 3pin, 250 V. 10 Amps socket cum switch with indication Roma type code 21113 and 21033 of Anchor make or North West. Fixed on suitable modular type concealed box top cover. Testing & commissioning etc., complete all as directed by engineer-in-charge.	1.00	Nos	426.00	426.00
4	Supply and execute the concealed / surface PVC/MS Pipe wiring with 1.5 sq. mm 660 / 1100. V. Grad PVC insulated copper wire multi strand of make Finolex / Rediant / fincab/ Havells/ L&T. In PVC pipe of suitable dia (As per IS for wiring points) with 14 G/1.5sq.mm green colour copper wire for earth continuity. Supply & Fixing of three plate/pin ceiling rose of Roma modular type of Anchor or North West make for connecting each light / fan point. Each circuit should not have more than 7 points 700 watts etc., complete all as directed by engineer-in-charge.	8.00	Pts	1,112.00	8,896.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
5	Supply and fixing of 5 Amps 250 V. SP switches for control of light fitting and fans with Roma Type code : 21011 of Anchor or North West make . Fixed on a suitable modular type concealed box with suitable top cover. Testing & commissioning etc., complete all as directed by engineer-in-charge.	6.00	Nos	273.00	1,638.00
	Total Value of work			₹	7,42,562.95

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, swatch bhara tax which is extra as per service tax norms will be paid by BHEL to the agency after submission of necessary documents.
3	The tender % age quoted by the contractor shall be inclusive of all taxes and duties other than service tax as applicable from time to time.
4	All the bills of the contractors will be cleared subject to the production of clearance certificate by the contractors in respect of compliance of all statutory requirement, issued by IR section of HR department BHEL.
5	The agency shall submit the I.R. clearance certificate for the above work and arrange to get the final bill sent to Finance within one month from the actual date of completion of work.
6	The maintenance period of the work is 6 months . The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill.

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		