

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-13/16-17, Dt: 07.10.2016

PRICE BID

Item no.: 3

Name of work:- Civil works for maintenance of internal water supply, sewage system in factory and admn. Bldg. area during 2016-17.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
	Part -I - Maintenance of internal water supply and sanitary fittings in Factory & Admn.Building area.				
1	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.. Wash hand basins of size 22" x 16"	10.00	Each	320.00	3,200.00
b	.. do.. Porcelain sinks	10.00	Each	320.00	3,200.00
c	.. do.. Indian water closets-23"-size	10.00	Each	256.00	2,560.00
d	.. do.. European water closets.	10.00	Each	224.00	2,240.00
e	.. do.. Flat back Indian type urinals	25.00	Each	128.00	3,200.00
f	.. do.. Porcelain low down flush tanks of 3 gallons Capacity.	10.00	Each	448.00	4,480.00
2a	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 etc. complete all as directed by Engineer-in-charge.	200.00	One RM	390.00	78,000.00
b	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.	200.00	One RM	526.00	1,05,200.00
c	Supplying ,laying ,jointing and testing 254 mm (10") 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.	50.00	One RM	983.00	49,150.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
3	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 and channeling with 1:2:4 of 15cm thick as required, including earth work excavation in all soils, refilling around the chamber removing the surplus earth etc. complete all as directed by Engineer-in-charge. CI frame and cover of 40 kgs, including channeling.	10.00	Each	7,860.00	78,600.00
4	Construction of brick masonry chamber of dimension 0.457 x 0.457 x 0.914 m (1'6" 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 and channelling with 1:2:4 of 15 cm thick as required, including earth work excavation in all soils, refilling around the chamber removing the surplus earth etc. complete all as directed by Engineer-in-charge. CI frame and cover of 20 kgs.	10.00	Each	5,377.00	53,770.00
5	Providing and fixing PVC waste pipe of sink or wash basin including PVC waste fittings etc. complete all as directed by Engineer-in-charge.	300.00	Each	65.30	19,590.00
6a	Providing and fixing Chlorinated Polyvinyl chloride (CPVC) pipes, having thermal stability for Hot & cold water supply including all CPVC plain & Brass threaded fittings this includes jointing of pies, & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer-in-charge. ---- 15 mm nominal outer dia pipes.	150.00	Metre	122.25	18,337.50
b	----Do-----20 mm nominal outer dia pipes.	150.00	Metre	140.40	21,060.00
7	Demolishing brick work manually / by mechanically means including stacking of serviceable material and disposing off unserviceable materials within 50 meters lead as per directions of Engineer-in-charge. - in cement mortar.	10.00	Cu.M	641.75	6,417.50
8	Dismantling reinforced cement concrete / plain cement concrete and disposing of debries upto to a lead of 2 KM including loading, unloading and spreading as directed by Engineer-in-charge etc., complete.	5.00	Cu.m	1,054.10	5,270.50
9	Brick work with FPS bricks of Ground moulded in superstructure above plinth level up to floor V level in all shapes and sizes in cement mortar 1:6 etc. complete all as directed by Engineer-in-charge. The cement will be issued free of cost by BHEL at BHEL stores.	10.00	Cu.M	3,513.00	35,130.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
10	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 (machine foundations) up to plinth level with 1:1½ :3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size) etc. complete all as directed by Engineer-in-charge. The cement will be issued free of cost by BHEL at BHEL stores.	5.00	Cu.M	2,772.00	13,860.00
11	Removing the existing partition and supply and fixing of magum urinal partition with all accessories etc. complete all as directed by Engineer-in-charge. Make : Parryware.	20.00	Each	2,970.90	59,418.00
12	Providing and Fixing 30 mm thick "Rajsri" or equivalent brand factory made both side prelam solid panel PVC door shutter consisting of frame made out of MS tubes of 19 guage thickness and size of 19mm X19mm for stiles, top and bottom rails. MS frame shall have a coat of steel , primers of approved make and manufacture . MS frame covered with 5mm thick heat moulded "Rajsri" prelam pac 'c' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20 mm shall be tapered in 450 angle on either side forming stiles, and mm thick, 95 mm wide Rajsri prelam pac sheet out of which 75mm shall be flat and 20mm shall be tapered in 450 on the inner side to form top and bottom rail 115 mm wide Rajsri prelam pac sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rai. top , bottom and lock rail shall be pvided either side of the panel. 10mm (5mmX2) thick, 20mm wide cross Pac sheet shall pe provided as gap insert for top and bottom rail. Panelling of 5 mm thick both side prelam pac sheet to be fitted in the MS frame welded /sealed to the stiles & rials with 7mm (5mm +2mm) thick X15 mm wide solvent cement adhesive etc. an additional 5mm thick Pac strip of 20mm width is to be stuck on the interior side of the 'c' channel using Pac solvent cement adhesive etc. complete as per direction of Engineer-in-charge, manufacture specification and drawing.	10.00	Sq.m	2,700.00	27,000.00
	Part -II -Main. of external sewage system / open drains, clearing of sewage lines and sweeping of roads in Factory area .				
1	Earth work in excavation 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 bottams, 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.	75.00	Cu.M	130.80	9,810.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
2	Cleaning the open drains by removing mud, leaves and stones and conveying the same within a lead of 2 Kms., etc., complete as directed by Engineer-in-charge.	8,000.00	R.M	4.89	39,120.00
3	Laying and jointing of RCC hume pipes of 150 and 225 mm (6" and 9") dia, in CM 1:1 including excavation, testing and refilling etc., complete. RCC hume pipes will be supplied free of cost by BHEL at BHEL stores.	6.00	R.M	44.00	264.00
4a	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement :2 fine sand) including testing of joints etc. complete - 250mm dia R.C.C pipe etc. complete all as directed by Engineer-in-charge.	15.00	RM	342.45	5,136.75
b	-----do -----for 300 mm dia RCC pipe.	15.00	RM	422.90	6,343.50
c	-----do -----for 450 mm dia RCC pipe.	15.00	RM	620.85	9,312.75
5	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 any soil (except rock requiring blasting) up to 914.40 mm (3'.0") depth and refilling with watering and tamping etc. complete all as directed by Engineer-in-charge.	50.00	RM	526.00	26,300.00
6	Rodding of under ground sewer lines such as S.W.G pipes / R.C.C. pipes, / G.I. pipes and clearing and removing the deposits from the manholes, / chambers upto depth of 10.00 M and disposing the same to a lead of 2.00 KMs., for the following dia. Of pipes at all depths. The rate quoted shall include cost of labour and tools required for cleaning the sewer lines, cleaning rods and safety equipment etc. complete all as directed by Engineer-in-charge.				
a	100 mm dia.	1,000.00	R.M	6.45	6,450.00
b	150 mm dia.	2,000.00	R.M	8.30	16,600.00
c	225 mm dia.	3,000.00	R.M	9.92	29,760.00
d	300 mm dia.	2,500.00	R.M	12.37	30,925.00
e	375 mm dia.	500.00	R.M	12.17	6,085.00
f	for inspection chambers	25.00	Each	80.34	2,008.50
g	for man holes	25.00	Each	80.34	2,008.50

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
7	Cleaning of canteen waste collection tanks and waste collection chambers located at 02, 03, 04 and 51 staff and works canteens including removal of waste from the chambers and septic tanks, loading into vehicle, conveying and unloading the same at outside the factory area etc., complete as directed by the Engineer-in-charge. The vehicle shall be weighed before and after lading the waste materials, at BHEL weigh bridge for each trip. The rate quoted shall include cost or labour, hire charges of vehicle, cost or tools required for cleaning. The payment will be made against the weight for the waste materials disposed etc. complete all as directed by Engineer-in-charge.	40.00	M.T	377.53	15,101.20
8	Cleaning and Clearing the choakages of nahany traps 'P' or 'S' traps and gully traps in the toilets at factory and Administrative building areas including removal and disposal of waste materials etc., complete as directed by the Engineer-in-charge. The rate quoted shall include cost of labour and tools.	200.00	Each	39.32	7,864.00
9	Engaging tractor trailer with Four unskilled services per day , for removal of waste, materials from out side the blocks, storage yards etc like surplus earth, canteen waste, papers, wood, steel, plastic, drainage silt, any other waste materials are to be conveyed to garbage yard or scrap yard without weighment. The rate quoted shall include cost of labour and hire charges of tractor trailer with driver per day etc. complete all as directed by Engineer-in-charge.	150.00	Tractor Day	3,687.64	5,53,146.00
10	Cleaning of road gully chambers by removing leaves, mud, stones etc., and disposing the garbage into factory dumping yard etc. complete all as directed by Engineer-in-charge.	900.00	Each	8.43	7,587.00
11	Dechoking / Desilting and cleaning the sewer pipe lines of 450 mm/300mm diameter including desilting from the deep sewer manhole of more than 2M deep to achieve keen flow in sewer line between two manholes inside the factory area by using Trunk Mounted High Power Suction Cum Jetting Machine and Kamgrab Man hole desilting equipment, including hire charge of machine, fuel, driver cum operator and necessary labour for carrying out the work for one time. If any dewatering is required to be carried out; complete all as directed by Engineer-in-charge. The necessary safety procedures and all other special measures to clean the line is under the contractor scope. 1 Nos: The line between two manholes of any distance to be cleared. (For heavy chokage cleaning)	4.00	no.s	21,180.00	84,720.00
	Total Value of work			₹	14,48,225.70

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
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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, Krishi Kalyan Cess 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 Nil . The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill.
7	The agency has to pay the minimum wages to workers with statutory payments like ESI, PF etc., is as per BHEL notification and as per NIT. For USW=₹ 500.80, SSW=₹ 553.15, SW = ₹ 604.96 + ESI + PF + PPE's and other statutory if any.
8	The agency has to bring police clearance certificate for the work force.
9	All the terms and conditions of the contract with respect to taxes & duties are subject to the new taxation laws introduced from time to time (e.g. GST). The terms and conditions will be modified in accordance with the provisions of new laws (e.g. GST).

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		