

# TENDER

TENDER NOTIFICATION NO. - **FCX/19201048**

FOR

**Repair/maintenance of existing sanitary installations  
/drinking points etc. inside factory area.**

**PRICE BID**



**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**

**BHARAT HEAVY ELECTRICALS LIMITED**

**(A Government of India Undertaking)  
Bhopal – 462 022 (M.P)**

## **PREAMBLE OF PRICE BID**

**1.0** This Price Bid consists of Three Schedule:

### **1.1 Schedule A**

Schedule A consists of Two Annexure:

Total price of the package combining of **Annexure I & Annexure II** to be quoted by the bidders which shall form the basis for comparison for deciding lowest bid. For further processing and award, total quoted amount by the L1 (lowest) bidder for the package shall be used for deriving individual item rate by BHEL based on % (percentage) weightage specified at **Annexure I & Annexure II** of Price Schedule.

### **1.2 Schedule B**

It consists of details of free issue materials by BHEL.

### **1.3 Schedule C**

It consists of details of tools & tackles provided by BHEL either on higher basis or on free of cost basis which are mentioned in price bid.

**2.0** The work to be carried out under the contract shall, except as otherwise provided in tender conditions, include all labour, materials, tools, plant, equipment, and transport which may be required in preparation of and for full & entire execution and completion of the Works. The descriptions given in the Schedule of Quantities shall, unless otherwise stated, be held to include waste on materials, carriage and cartage, carrying in return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion as aforesaid in accordance with good practice and recognized principles as laid down in Technical Specification & elsewhere in Tender Specification.

**3.0** The price bid should not contain any condition. Conditional price Bids shall be summarily rejected.

**4.0** The bidder should not leave any column blank in Price Schedules.

**5.0** Price Quoted shall include all taxes, & duties except **GST**.

**6.0** Unless otherwise specified in the items involving cement, reinforcement steel or structural steel, these items shall be issued free of cost by BHEL.

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

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**Price Schedule**

Name of work : Repair/maintenance of existing sanitary installations /drinking points etc. inside factory area.

**SUMMARY**

	Details ANNEXURE	Total Amount (Rs.)
	Total price of the package combining of Annexure-I & Annexure-II	

Amount in words: Rs.

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Total price of the package combining of Annexure-I & Annexure-II to be quoted by the bidders which shall form the basis of comparison for deciding lowest bid.

For further processing & award total quoted Amount for the package by the L1 (lowest) bidder shall be used for deriving Individual item rate by BHEL based on % (percentage) weightage specified at [Annexure-I & Annexure-II](#) of Price Schedule.

**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**  
**Price Schedule A : Anneuxre - I**

Name of work : Repair/maintenance of existing sanitary installations /drinking points etc. inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1		Carriage of materials by mechanical transport including loading, unloading and stacking --- 1 Km lead			
(a)	1.1.1	Lime, Moorum, building rubbish	10.00	cum	0.1517
(b)	1.1.2	Earth	0.25	cum	0.0047
2		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.			
	2.8.1	All kinds of soil.	0.50	cum	0.015
3		Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :			
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	25.00	metre	0.9482
4	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	0.50	cum	0.0096
5	**	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:(Cement free issue by the Deptt.)			
(a)	4.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ).	4.00	cum	2.3604
(b)	4.1.8	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size ).	0.50	cum	0.2896

**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**  
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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
6	**	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work upto plinth level.(Cement free issue by the Deptt.)			
	5.1.3	a) 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	2.00	cum	1.2671
7	** 5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).(Cement free issue by BHEL)	0.50	cum	0.4073
8		Centering and shuttering including strutting, propping, etc. and removal of form for:			
(a)	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete.	5.00	sqm	0.1781
(b)	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	5.00	sqm	0.2878
9	Ana. 5.22.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. (Reinforcement bars will be supplied free of cost from BHEL store).			
		Thermo-Mechanically Treated bars.	50.00	Kg	0.0847
10	**	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.(Cement free issue by the Deptt.)			
		Granite of any colour and shade			

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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
		<b>Note: The colour of granite shall be zed black. Contractors are advised to see the sample lying at divisional office of FCX before quoting their rates.</b>			
	8.2.2.2	Area of slab over 0.50 sqm	35.00	sqm	20.9153
11	8.5	Extra for providing opening of required size & shape for wash basins/kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite /stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.	3.00	each	0.1931
12		Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.			
	8.10.2	Granite Stone of approved shade.	2.50	sqm	1.5228
		<b>Note: The colour of granite shall be zed black. Contractors are advised to see the sample lying at divisional office of FCX before quoting their rates.</b>			
13	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	20.00	each	3.8295
14		Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with nuts and screws, etc., complete.			
	9.96.2	250 x 16 mm.	2.00	each	0.0668

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Name of work : Repair/maintenance of existing sanitary installations /drinking points etc. inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
15		Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws, etc. complete:			
	9.97.2	250x10 mm.	10.00	each	0.1695
16		Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour and shade with necessary screws, etc. complete.			
	9.100.2	100 mm.	10.00	each	0.097
17		Providing and fixing PTMT handles with necessary screws etc. complete.			
	9.106.2	150x34x24 mm weighing not less than 26 gms	5.00	each	0.0424
18		Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc., complete.			
	9.108.2	202x42x18 mm weighing not less than 78 gms	3.00	each	0.0587
19	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge.	50.00	metre	3.9601

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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
20		Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2 ) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing. <b>(Sample is to be got approved before fixing)</b>			
	9.120.2	30 mm thick pre laminated PVC door shutters	10.00	sqm	4.8877
21	** 11.36	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, risere of steps and dados over 12 mm thick bed of Cement Mortar 1:3 (1 Cement :3 Coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.(Cement free issue by the Deptt.)	100.00	sqm	13.4903

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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
22	** 11.37	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours, such as White, Ivory, Grey, Fume, Red Brown, laid on 20mm thick Cement Mortar 1:4 (1 cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.(Cement free issue by the Deptt.)	25.00	sqm	3.4407
23		Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion			
		(i) Single socketed pipes:			
(a)	12.41.1	75 mm dia.	15.00	metre	0.3865
(b)	12.41.2	110 mm dia.	20.00	metre	0.8399
24		Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion:			
		1) Coupler			
	12.42.1.1	a) 75 mm	3.00	each	0.059
	12.42.1.2	b) 110 mm	3.00	each	0.0782
		2) Single tee with door.			
	12.42.3.1	a) 75x75x75 mm	2.00	each	0.0819
	12.42.3.2	b) 110x110x110 mm.	2.00	each	0.1188
		3) Single tee without door			
	12.42.4.1	a) 75x75x75 mm.	5.00	each	0.1823
	12.42.4.2	b) 110x110x110 mm.	5.00	each	0.2384
		4) Bend 87.5 degree			
	12.42.5.1	a) 75 mm bend.	2.00	each	0.042
	12.42.5.2	b) 110 mm bend.	5.00	each	0.1563
		5) Shoe (Plain)			
	12.42.6.1	a) 75 mm Shoe.	5.00	each	0.1625
	12.42.6.2	b) 110 mm Shoe.	5.00	each	0.2824

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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
25		Providing and fixing unplasticised-PVC pipe clips of approved design to unplasticised-PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1 : 4 (1 cement : 4 coarse sand) and making good the wall etc. complete:			
(a)	12.43.1	75 mm.	2.00	each	0.0556
(b)	12.43.2	110 mm.	2.00	each	0.0624
26	**	12 mm cement plaster of mix:(Cement free issue by the Deptt.)			
	13.4.2	1 : 6 (1 cement : 6 coarse sand) .	10.00	sqm	0.2272
27	**	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sqm and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead:(Cement free issue by the Deptt.)			
	14.1.2	With cement mortar 1 : 4 (1 cement : 4 coarse sand).	20.00	sqm	0.7134
28		Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade.			
	14.45.1	Old work(one or more coats).	25.00	sqm	0.1283
29	14.46	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches, etc. complete.	25.00	sqm	0.0429
30	15.1	Demolishing lime concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineer-in-charge.	0.25	cum	0.0134
31		Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.			
	15.2.1	a) Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	3.00	cum	0.4611

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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
	15.2.2	b) Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	3.00	cum	0.2842
32	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	0.25	cum	0.0561
33		Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.			
	15.7.4	In cement mortar.	5.00	cum	0.6489
34		Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge:			
	15.9.2	In cement mortar	0.25	cum	0.0387
35		Dismantling doors, windows and clerestory windows (steel or wood) shutter including chokhats, architrave, holdfasts, etc. complete and stacking within 50 metres lead:			
	15.12.1	Of area 3 sqm and below.	25.00	each	0.5823
36		Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead:			
	15.13.1	Of area 3 sqm and below.	2.00	each	0.0182
37		Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead:			
	15.23.1	For thickness of tiles 10 mm to 25 mm.	100.00	sqm	0.4649
38	15.25	Dismantling stone slab flooring laid in cement mortar including stacking serviceable material and disposal of unserviceable material within 50 metres lead.	10.00	sqm	0.1688
39		Dismantling C.I. Or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead:			
	15.42.1	75 to 80 mm dia pipe.	5.00	metre	0.0238

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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
40		Dismantling G.I. Pipes (external work) including excavation and refilling trenches after taking out the pipes, manully/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge:			
	15.44.1	15 mm to 40 mm nominal bore.	40.00	metre	0.404
41	15.52	Dismantling of flushing cistern of all types (C.I./PVC/Vitreous China)including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	25.00	each	1.4996
42	15.55	Dismantling of cement concrete platform along with curtain walls and base concrete etc. including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead:			
	15.55.2	210 x 120 cm (outside to outside)	5.00	each	0.5336
43	15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	20.00	sqm	0.0687
44	15.57	Dismantling aluminium/Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material within 50 metres lead as directed by Engineer-in-Charge.	15.00	sqm	0.0546
45	**	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast iron P or S trap, 10 litre low level white P.V.C. flushing cistern 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:(Cement free issue by the Deptt.)			
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests.	5.00	each	2.2478

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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
46	**	Providing and fixing white vitreous china pedestal type water closet (European type WC pan) with seat and lid, 10 litre low level white PVC flushing cistern with manually controlled device (handle lever) , conforming to IS : 7231 , with all fittings & fixtures complete including cutting and making good the walls and floors wherever required. (Cement free issue by the Deptt.)			
	17.2.2	W.C. pan with ISI marked black solid plastic seat and lid.	5.00	each	2.1584
47	** Ana	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fittings as per IS:2556, C.I. trap with outlet grating and other coupling in C.P. brass including painting of fittings , cutting and making good the walls and floors wherever required: (Cement free issue by the Deptt.) <b>(Excluding the cost of PVC automatic flushing cistern).</b>			
(a)	17.5.1	Single half stall urinals with 5 litre P.V.C. automatic flushing cistern	3.00	each	2.836
48	** 17.8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.(Cement free issue by the Deptt.)	2.00	each	0.3373
49	**	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per I.S. 13983 with C.I. Brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required:(Cement free issue by the Deptt.)			
		Kitchen sink without drain board:			
	17.10.2.1	610 x 510mm bowl depth 200 mm.	1.00	each	0.7785
50		Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS :7231, with all fittings and fixtures complete.			
	17.18.1	10 litre capacity - White.	2.00	each	0.3096

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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
51		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:			
	17.32.4	Rectangular shape 1500 x 450 mm.	2.00	each	0.4843
52		Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour.			
	17.73.2	600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190 gms.	2.00	each	0.1617
53	**	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps,i/c making good the walls etc. concealed pipe, including paintingwith anti corrosive bitumastic paint, cutting chases and making good the wall : (Cement free issue by the Deptt.)			
(a)	18.11.1	15 mm dia nominal bore	25.00	metre	1.1901
(b)	18.11.2	20 mm dia nominal bore	2.00	metre	0.1038
54		Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931:			
	18.49.1	15 mm nominal bore.	10.00	each	0.7778
55		Providing and fixing PTMT grating of approved quality and colour.			
		Circular type:			
	18.58.1.1	100 mm nominal dia.	2.00	each	0.0172
56	18.63	Providing and fixing PTMT angle stop cock 15 mm nominal bore. Weighing not less than 85 gms.	10.00	each	0.3247
57	** Ana.	Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. Grating brick masonry chamber with water tight C.I. Cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.50Kg and frame to be not less than 2.70Kg as per standard design:(Cement free issue by the Deptt.)			
		180x150mm size P type.			
	19.4.3.1	With FPS bricks class designation 75	2.00	each	0.4949

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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
58		Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 mtrs lead and disposal of unserviceable materials into municipal dumps.			
	19.5.2	150 mm diameter	2.00	metre	0.0123
59	**	Making connection of drain or sewer line with existing man-hole 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 20 mm nominal size) cement plastered on both sides with cement mortar 1 : 3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete:(Cement free issue by the Dept.)			
	19.21.1	For pipes 100 to 250 mm diameter	2.00	each	0.1108
60		Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS : 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/panelling, C.P. brass/stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately).			
		For fixed portion.			
	21.1.1.2	Powder coated Aluminium (minimum thickness of powder coating 50 micron).	50.00	kg	3.6526
61		For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of PVC/neoprene gasket required			
	21.1.2.2	Powder coated Aluminium (minimum thickness of powder coating 50 micron).	50.00	kg	4.1639

**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**  
**Price Schedule A : Annexure - I**

**Name of work : Repair/maintenance of existing sanitary installations /drinking points etc. inside factory area.**

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
62		Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 , grade I type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass/stainless steel screws, etc. complete as per architectural drawings and directions of Engineer-in-charge:			
	21.2.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.	5.00	sqm	0.9211
63	** 22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:(Cement free issue by the Deptt.)			
		i) 1st course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions.including rounding off junction of vertical and horizontal surface.			
		ii) 2nd course of 20 mm cement plaster 1 : 3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion.including rounding off junction of vertical and horizontal surface.			
		iii) 3rd course of applying blown or residual bitumen applied hot at 1.7 Kg per sqm of area.			
		iv) 4th course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm.)	10.00	sqm	0.6594
		Total :		Total	<b>89.5992</b>

**Note:-**

- 1 Work is to be done as per CPWD Specifications and as per BHEL Special conditions unless otherwise specified.
- 2 Dismantled material (if usable) should be deposited at Zonal offices.
- 3 Drill machine and other tools and tackles shall be in the contractor's scope.However electricity point /compressed air point shall be provided by BHEL free of cost but electricity shall be charged as per schedule 'C' for fabrication of structural steel (if required).
- 4 Various items to be used must be of reputed make & conforming to applicable IS Codes. Contractor has to get the material approved from Engineer-in-Charge prior to its installation.

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule A : Anneuxre - II

Name of work : Repair/maintenance of existing sanitary installations /drinking points etc. inside factory area.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1	Brick work with Ghol bricks of class designation 50 and above in foundation and plinth in : in cement mortar 1:6 (1 cement : 6 coarse sand) :(Cement free issue by the Deptt.)	2.00	cum	1.6878
2	Brick work with Ghol bricks of class designation 50 and above in superstructure above plinth level up to floor V level in all shapes and sizes in cement mortar 1:6 (1 cement : 6 coarse sand). (Cement free issue by the Deptt.)	0.25	cum	0.2446
3	Half brick masonry with Ghol bricks of class designation 50 and above in foundations and plinth in: Cement mortar 1 : 4 (1 cement : 4 coarse sand) . (Cement free issue by the Deptt.)	0.25	sqm	0.0204
4	Half brick masonry with Ghol bricks of class designation 50 and above in superstructure above plinth level up to floor V level: Cement mortar 1 : 4 (1 cement : 4 coarse sand) . (Cement free issue by the Deptt.)	20.00	sqm	2.2228
5	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item):			
	With float glass panes of 5.00 mm thickness	5.00	sqm	0.7735
	(Weight not less than 12.27 kg/sqm)			
6	Providing and fixing with all accessories and Oval shape , Ivory colour counter top wash basin with CI/MS brackets, 15mm C.P. brass Swan neck Pillar taps, 32mm C.P. Brass waste of standard pattern including painting of fittings and brackets. cutting and making good the walls wherever required as per instruction of Engineer in charge.	5.00	each	2.2927

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule A : Anneuxre - II

Name of work : Repair/maintenance of existing sanitary installations /drinking points etc. inside factory area.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
7	Providing and fixing CP brass urinal push cock of nominal size 15 mm dia and pvc lead connection of different sizes, on single half stall urinal and three half stall urinal and as per instructing of Engr-in-charge. (The above rate is inclusive of CP brass urinal push cock and pvc lead connection)	10.00	each	0.5505
8	Providing and fixing CP brass lift cock of nominal bore 15 mm	10.00	each	0.3665
9	Providing and fixing Health Faucet with Hose & Hook Complete (Approved make <u>JAQUAR</u> cat no. ALD-CHR-583 or <u>Marc</u> MAC-3050 or <u>Parry Ware</u> T9940A1 or <u>CERA</u> CG205 or <u>Hindware</u> f160013 or <u>Prayag</u> BEA-81) near WC sheet including cutting and making good of walls where ever required.	5.00	No.	0.8561
10	Providing and fixing 15 mm nominal bore C.P. Brass TWO WAY BIB COCK (approved make <u>Parryware</u> G4067A1 or <u>JAQUAR</u> FLR-5041N or <u>CERA</u> CQ606B or <u>MARC</u> MJN 1380 or <u>Hindware</u> cat no F280003 or <u>Prayag</u> PIS-12-H ) including cutting and making good of walls where ever required.	5.00	No.	1.3859
Total :				10.4008
Total = Annexure-I + Annexure-II				100.0000

Note: All sanitary fitting/sanitary ware must be got approved before start of execution of work.

- 1 Choice of selection out of the referred 'makes' mentioned in the items in schedule for different materials rests with department. The decision of the department shall be final and binding on the contractor.
- 2 Various items to be used must be of reputed make & conforming to applicable IS Codes. Contractor has to get the material approved from Engineer-in-Charge prior to its installation.

**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**

**Price Schedule B**

Name of work : Repair/maintenance of existing sanitary installations /drinking points etc. inside factory area.

The following material free issue from BHEL stores.

- 1 Cement
- 2 Reinforcement Steel.

**Price Schedule C**

Name of work : Repair/maintenance of existing sanitary installations /drinking points etc. inside factory area.

- 1 Electricity charges at Rs.66.00/- per M.T. of fabrication of structural steel (if required)

Hire charges.

- i) Drill machine @ 252.00/- per day
- ii) Jack Hammer @108.00/- per day

} (Subject to availability)

Drill machine/jack hammer rod Rs. 100.00 per rod

**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**

**Scope of Work**

**Name of work : Repair/maintenance of existing sanitary installations /drinking points etc. inside factory area.**

The scope of work under this contract shall broadly comprise but not be limiting to the following:

1. Repair / maintenance of various toilets fittings, tiles etc. inside factory area as per the instruction received from Engineer In Charge.
2. Installation of various accessories and fittings as per the schedule and instruction from Engineer in Charge.
3. In addition to above, work may be diverted to any other place on the basis of requirement and urgency, but shall remain with factory premises.

The scope shall also include all associated & enabling works including the cost of labour, tools & tackles and materials except for those to be provided by BHEL free of cost or on chargeable basis as mentioned in the schedule.