

# TENDER

TENDER NOTIFICATION NO. - FCX/20211026

FOR

**Renovation and Modification of Toilets of Block-1  
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:

The evaluation currency for this tender shall be INR. Total price of the package combining **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 & MAINTENANCE DIVISION**

**Price Schedule**

Name of work : Renovation and Modification of Toilets of Block-1 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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The evaluation currency for this tender shall be INR. 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.

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

Name of work : Renovation and Modification of Toilets of Block-1 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			
	1.1.1	Lime, Moorum, building rubbish	2.00	cum	0.0414
	1.1.11	Steel 1 km. lead	0.50	tonne	0.0092
2	**	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. <b>(Cement free issue by the Deptt.)</b>			
	5.1.2	1 : 1.5 : 3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	2.00	cum	1.6874
3	** 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). <b>(Cement free issue by BHEL)</b>	2.00	cum	2.2260
4		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	0.2433
(b)	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	10.00	sqm	0.9428
(c)	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	10.00	sqm	0.7864
5	Ana. 5.22A.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. <b>(Reinforcement bars will be supplied free of cost from BHEL store).</b>			
		Thermo-Mechanically Treated bars.	150.00	Kg	0.3473
6	**	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. <b>(Cement free issue by the Deptt.)</b>			
		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 divisonal office of FCX before quoting their rates.</b>			
	8.2.2.2	Area of slab over 0.50 sqm	5.00	sqm	4.3913
7	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.	5.00	metre	0.5410
8		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	5.00	sqm	3.9465

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**Price Schedule A - Annexure: I**

Name of work : Renovation and Modification of Toilets of Block-1 inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
9	Ana. 10.2	Structural steel work riveted ,bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. <b>(Structural steel &amp; primer will be issued free of cost from BHEL stores).</b>	1500.00	Kg	6.1254
10	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacturer) 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 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. <b>(excluding cost of cement which shall be supplied free of cost by BHEL)</b>	12.00	sqm	2.2117
11	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. <b>(Excluding the cost cement which shall be supplied free of cost by BHEL):-</b>	15.00	sqm	2.8205
12	**	12 mm cement plaster of mix: <b>(Cement free issue by the Deptt.)</b>			
	13.4.2	1 : 6 (1 cement : 6 coarse sand) .	50.00	sqm	1.5521
13		Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer, of required shade and color complete as per Manufacturer's specification.			
	13.42.1	Two or more coats on new work	200.00	sqm	2.2424
14	Analysis	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :			
	13.43.1	Water thinnable cement primer	200.00	sqm	1.6391

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**Price Schedule A - Annexure: I**

Name of work : Renovation and Modification of Toilets of Block-1 inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
15	Analysis 13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	200.00	sqm	4.2363
16	Analysis	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.			
	13.83.1	One coat	200.00	sqm	2.3488
	13.83.2	Two coats	200.00	sqm	3.5260
17	**	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: <b>(Cement free issue by the Deptt.)</b>			
	14.1.2	With cement mortar 1 : 4 (1 cement : 4 coarse sand).	10.00	sqm	0.4875
18	14.43	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	500.00	sqm	0.8918
19		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).	200.00	sqm	1.4019
20	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.	600.00	sqm	1.4081
21		Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer, of required shade and color complete as per Manufacturer's specification.			
	14.63.1	One or more coats on old work	200.00	sqm	1.2723

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**Price Schedule A - Annexure: I**

Name of work : Renovation and Modification of Toilets of Block-1 inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
22	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.	0.24	cum	0.0735
23		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.	1.00	cum	0.1773
24	15.19	Dismantling steel work manually / by mechanical means in built up sections without dismembering and stacking within 50 meters lead. as per direction of Engineer-in-charge.	500.00	Kg	0.1643
25	**	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:( <b>Cement free issue by the Deptt.</b> )			
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests.	2.00	each	1.5960
26	** 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> ).			
	17.5.3	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern.	2.00	each	5.4907
27		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.	5.00	each	1.6541



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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
28		Providing and fixing G.I. Pipes complete with G.I. fittings and clamps i/c making good the walls etc. concealed pipe including painting with anticorrosive bitumastic paint, cutting chases and making good the wall <b>(excluding cost of cement which shall be supplied free of cost by BHEL)</b>			
	18.11.1	15 mm dia nominal bore	50.00	Metre	3.2522
29		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. <b>(Glazing and panelling to be paid for separately).</b>			
a)		For fixed portion.			
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	25.00	kg	2.4953
b)		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 <b>(Fittings shall be paid for separately.)</b>			
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	25.00	kg	2.8444
Total : Annexure I				Total Rs.:	65.0743

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 shedule '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.

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**Price Schedule A - Annexure: II**

Name of work : Renovation and Modification of Toilets of Block-1 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 superstructure above plinth level up to floor V level in all shapes and sizes in cement mortar 1:6 (1 cement : 6 coarse sand). <b>(Cement free issue by the Deptt.)</b>	10.00	cum	18.9226
2	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) . <b>(Cement free issue by the Deptt.)</b>	10.00	sqm	1.8419
3	Supply and installation of coated galvalume steel sheet having maximum of pitch of 205 mm c/c and minimum 28 mm crest depth in length for roofing / side cladding as per site requirement. The supplied material is to be manufactured out of 0.50 mm TCT (Total coated thickness) and 550 MPA tensile strength, with zinc aluminium alloy of AZ-150 (As per AS-1397:1993). The sheet shall have a hot dip metallic zinc aluminium alloy coating of zinc (43%), silicon (1.5%) and aluminium (55%) with total mass coating of 150 gms/sqm considering both sides together , self drilling/self tapping screws with EPDM seal fixed to the existing MS purlins/MS runners complete as per drawing and as directed by engineer-in-charge. Colour of the sheet shall be as per this instructions of engr-in-charge.	60.00	sqm	9.0919

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**Price Schedule A - Annexure: II**

Name of work : Renovation and Modification of Toilets of Block-1 inside factory area.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
4	Fixing of temporary protection made of MS sheets/ stiffener angles, etc to protect WC/ Urinals/ Wash basin, etc complete from the dismantling of RCC slab. Note: 1. MS sheet and angles/ channels shall be provided by BHEL 2. Dismantling of this protection after work, shall also be included in this item.	90.00	Sqm	5.0693
	Total : Annexure II			34.9257
	Total : Annexure I + Annexure II			100.0000

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

- 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.
- 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 : Renovation and Modification of Toilets of Block-1 inside factory area.

The following material free issue from BHEL stores.

- 1 Cement
- 2 Reinforcement Steel.
- 3 Structural Steel
- 4 Red oxide zinc chromate primer
- 5 Synthetic enamel paint

**Price Schedule C**

Name of work : Renovation and Modification of Toilets of Block-1 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 | } (Subject to availability) |
| ii) Jack Hammer @108.00/- per day   |                             |

Drill machine/jack hammer rod Rs. 100.00 per rod