

# TENDER

TENDER NOTIFICATION NO. - FCX/19201058

FOR

**Repair & modification work in SDX and other areas 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 **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

**Price Schedule**

Name of work : Repair & modification work in SDX and other areas 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 &amp; MAINTENANCE DIVISION

## Price Schedule : Anneuxre - I

Name of work : Repair &amp; modification work in SDX and other areas inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1		Carriage of material by Mechanical transport including, loading, unloading & stacking of..			
	1.1.1	a) Lime, moorum, building rubbish 1 km lead	73.81	cum	0.9871
2	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m; disposed earth to be levelled and neatly dressed.			
	2.6.1	All kinds of soil.	5.00	cum	1.5671
3	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.	3.00	cum	0.1692
4		Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge:			
(a)	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	14.30	cum	1.9376
(b)	15.2.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	2.00	cum	0.1670
5		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	0.1144
6		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	52.80	cum	7.2076

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

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Name of work : Repair &amp; modification work in SDX and other areas inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
7		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: (cement which shall be supplied free of cost by BHEL)			
	4.1.5	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	20.90	cum	11.2370
8		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 which shall be supplied free of cost by BHEL)			
	5.1.2	1 : 1.5 : 3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	40.92	cum	22.2772
9		Centering and shuttering including strutting, propping etc. and removal of form for :			
	5.9.1	a) Foundations, footings, bases of columns, etc. for mass concrete.	44.00	sqm	1.3815
	5.9.2	b) Walls (any thickness) including attached pilasters, buttresses, plinth and string courses, etc.	264.00	sqm	14.6035
10		Coursed rubble masonry (second sort) with hard stone in foundation & plinth with (Excluding the cost of cement which shall be supplied free of cost by BHEL):-			
	7.7.1	Cement mortar 1:6 ( 1 cement : 6 coarse sand).	10.56	cum	5.8733
11		Coursed rubble masonry (second sort) with hard stone in foundation & plinth with (Excluding the cost of cement and stone which shall be supplied free of cost by BHEL):-			
	Ans.				
	7.7.1	Cement mortar 1:6 ( 1 cement : 6 coarse sand).	15.84	cum	5.9105

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule : Anneuxre - I

Name of work : Repair &amp; modification work in SDX and other areas inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
12		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: (Excluding the cost of cement)			
	14.1.2	With cement mortar 1 : 4 (1 cement : 4 coarse sand).	20.00	sqm	0.6290
13		12 mm cement plaster of mix:(excluding cost of cement which shall be supplied free of cost by BHEL)			
	13.4.2	1 : 6 (1 cement : 6 coarse sand) .	50.00	sqm	1.0015
14		6 mm cement plaster of mix:(excluding cost of cement which shall be supplied free of cost by BHEL)			
	13.16.1	1 : 3 (1 cement : 3 fine sand).	20.00	sqm	0.3207
15		20 mm cement plaster of mix:(excluding cost of cement which shall be supplied free of cost by BHEL)			
	13.6.2	1 : 6 (1 cement : 6 coarse sand).	82.50	sqm	2.2572
16	ans.	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).			
	5.22.6	Thermo-Mechanically Treated bars.	1800.48	kg	2.6903
17	14.54	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: (Excluding the cost of synthetic enamel paint)			
	14.54.1	One or more coats on old work.	100.00	sqm	0.4876

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule : Anneuxre - I

Name of work : Repair &amp; modification work in SDX and other areas inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
18	14.46	Removing dry or oil bound distemper by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches, etc. complete.	200.00	sqm	0.3029
19		Finishing walls with Premium Acrylic Smooth exterior paint with Silicon additive of required shade :			
	14.67.1*	Old work (Two or more coat applied @ 1.43 ltr/10sqm) over existing cement paint surface.	200.00	sqm	2.1888
20	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.(Structural steel & primer will be issued free of cost from BHEL stores).	3173.50	Kg	8.3624
21		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:			
	12.42.1.2	1) Coupler			
		110 mm	20.00	each	0.4598
	12.42.5.2	2)Bend 87.5 degree			
		b) 110 mm bend	20.00	each	0.5512
	12.42.6.2	3) Shoe (Plain)			
		110 mm Shoe	10.00	each	0.4979
22		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,			
		Single socketed pipes:			
	12.41.2	110 mm diameter	40.00	metre	1.4809

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule : Annexure - I

Name of work : Repair &amp; modification work in SDX and other areas inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
23		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).			
	(a)	For fixed portion.			
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	35.20	kg	2.2670
	(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 (Fittings shall be paid for separately.)			
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	26.40	kg	1.9382
		TOTAL :			98.8684

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule : Anneuxre - II

Name of work : Repair & modification work in SDX and other areas 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 cement mortar 1:6 (1 cement : 6 coarse sand) : <b>(Cement free issue by the Deptt.)</b>	1.00	cum	0.7845
2	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap With float glass panes of 5.00 mm thickness (Weight not less than 12.27 kg/sqm)	4.00	sqm	0.3471
	<b>Total</b>			<b>1.1316</b>
	<b>Total = Annexure-I + Annexure-II</b>			<b>100.0000</b>

**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**

**Price Schedule 'B'**

Name of work : Repair & modification work in SDX and other areas inside factory area.

The following material free issue from BHEL stores.

- 1 Cement
- 2 Structural Steel
- 3 Synthetic Enamel Paint
- 4 Red Oxide Primer
- 5 Reinforcement steel

**Price Schedule 'B'**

Name of work : Repair & modification work in SDX and other areas inside factory area.

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

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