

# TENDER

TENDER NOTIFICATION NO. - **FCX/21221017**

FOR

**Repair of Structures of buildings like chajjahs, beams, columns,  
etc. in de-stressed conditions 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 consisting 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 & 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**

Repair of Structures of buildings like chajjahs, beams, columns, etc. in de-stressed conditions inside factory area

**SUMMARY**

	Details ANNEXURE	Total Amount (Rs.)
	<b>Total price of the package consisting of Annexure-I &amp; Annexure II.</b>	

Amount in words: Rs.

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**NOTE:**

- 1 The evaluation currency for this tender shall be INR. Total price of the package consisting 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.
- 2 In case of “discrepancy in words and figures”, the same shall be adjusted in accordance with following rule:
  - (a) If, in the price structure quoted for the required goods/ services/ works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
  - (b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.
  - (c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.
  - (d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.

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

Name of work : Repair of Structures of buildings like chajjahs, beams, columns, etc. in de-stressed conditions inside factory area.

Sr. No.	DSR-12 Items	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	Lime, moorum, building rubbish 1 km lead	25.00	cum	0.3631
2	** 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)	4.00	cum	3.1201
3	5.9	Centering and shuttering including strutting, propping, etc. and removal of form for:			
	5.9.3	a) Suspended floors, roofs, landings, balconies and access platform.	30.00	sqm	1.9822
	5.9.5	b) Lintels, beams, plinth beams, girders, bressumers and cantilevers.	20.00	sqm	1.1022
4	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. (Reinforcement bars will be supplied free of cost from BHEL store).			
		Thermo-Mechanically Treated bars.	120.00	Kg	0.1947
5	5.30	Add for plaster drip course/groove in plastered surface or moulding to R.C.C. projections.	100.00	metre	0.4879

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Sr. No.	DSR-12 Items	Item Description	Qty.	Unit	% Weightage of item amount against total amount
6	Ana.	15 mm cement plaster on rough side of single or half brick wall of mix: <b>(excluding cost of cement and excluding cost of scaffolding)</b>			
	13.5.2	1 : 6 (1 cement : 6 coarse sand).	215.00	sqm	5.3915
7	13.21	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	50.00	Per bag of 50 kg cement used in the mix.	0.3613
8	13.22	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof. (Excluding cost of scaffolding)	107.50	sqm	0.6801
9	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.	53.75	sqm	0.7979
10		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>(Excluding the cost of cement)</b>			
	14.1.2	With cement mortar 1 : 4 (1 cement : 4 coarse sand).	64.50	sqm	2.2030

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Sr. No.	DSR-12 Items	Item Description	Qty.	Unit	% Weightage of item amount against total amount
11	14.46	Removing dry or oil bound distemper by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches, etc. complete.	1345.00	sqm	2.2122
12		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.	1195.00	sqm	14.2038
13	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.			
	13.83.2	Two or more coats	150.00	sqm	1.8533
14		Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:			
	13.43.1	Water thinnable cement primer.	279.50	sqm	1.5072

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Name of work : Repair of Structures of buildings like chajjahs, beams, columns, etc. in de-stressed conditions inside factory area.

Sr. No.	DSR-12 Items	Item Description	Qty.	Unit	% Weightage of item amount against total amount
15	14.72	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge . <u>The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.</u>			
		<b>Note:-</b> This item to be used for maintenance work judiciously. Necessary deduction for scaffolding in the existing item to be done.	1680.00	sqm	46.8265

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

Name of work : Repair of Structures of buildings like chajjahs, beams, columns, etc. in de-stressed conditions inside factory area.

Sr. No.	DSR-12 Items	Item Description	Qty.	Unit	% Weightage of item amount against total amount
16	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).	100.00	Kg	0.2862
17		Painting with synthetic paint of approved brand and manufacture of required colour to give an even shade:(Synthetic enamel paint free issue by BHEL store)			
	Ana. 13.61.1	Two or more coats on new work.	100.00	Sqm	0.7770
18		Grading roof for water proofing treatment with: (excluding cost of cement)			
	22.14.1	a) Cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	15.00	cum	8.7629
19	15.3	Demolishing RCC 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.	22.00	cum	4.7230
20	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::	215.00	sqm	0.6955
		<b>Total : Annexure I</b>			98.5316



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

Name of work : Repair of Structures of buildings like chajjahs, beams, columns, etc.  
in de-stressed conditions inside factory area.

Sr. No.	Item Description	Unit	Qty.	% 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).(Excluding the cost of cement which shall be supplied free of cost by BHEL)	1.00	cum	1.4684
	<b>Total : Annexure II</b>			1.4684
	<b>Total : Annexure I &amp; Annexure II</b>			100.0000

**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**

**Price Schedule B**

Name of work : Repair of Structures of buildings like chajjahs, beams, columns, etc. in de-stressed conditions inside factory area.

The following material free issue from BHEL stores.

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

**Price Schedule B**

Name of work : Repair of Structures of buildings like chajjahs, beams, columns, etc. in de-stressed conditions inside factory area.

**Nil**