

# TENDER

TENDER NOTIFICATION NO. - FCX/19201008

FOR

**Repair and maintenance of epoxy floor 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 one Annexure:

Total price of the package Annexure I 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 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

**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**

NIT No. :FCX/19201008

Price Schedule

Name of work:- Repair and maintenance of epoxy floor inside factory area.

**SUMMARY**

Details ANNEXURE	Total Amount (Rs.)
Total of ANNEXURE- (I)	

Amount in words: Rs. ....

Total price of the package for Annexure I to be quoted by the bidders which shall from the basis of 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 of Price Schedule.

**Seal & Signature of Contractor**

**Dy.Manager (FCX/PLG)**

**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**

NIT No. FCX/19201008

**Price Schedule A - Annexure: I**

**Name of work:- Repair and maintenance of epoxy floor inside factory area.**

S. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1	Surface preparation : Removal of existing old coatings/paintings from concrete floor by using scarifying machines, sanders, scrubbing machines, wire brushes and other mechanical tools.Oil contaminated areas/oil soaked areas must be degreased with the help of universal degreaser or flame burning by mechanical, chemical or any other suitable means. Make entire area dust free and dry with the help of high capacity vacuum cleaner and hot air blowers. Then it should be washed thoroughly by solvent cleaning/detergent washing / acid cleaning. This process must be repeated upto satisfaction of Engineer-in-charge to ensure permissible limit of moisture & oil content.			
	a) Dry Area	150.00	Sqm	0.2107
	b) Oil Soaked Area	400.00	Sqm	0.9578
2	Repairing of cracks, erosion, crumbled joints, small size damages, pot holes, etc., in the concrete floor with fast setting epoxy resin based putty / mortar including cutting in regular shape etc. complete. Undulations ,if any, found in the existing floor has to be removed followed by filling with epoxy screed to the required thickness to bring the level within tolerance limits.	1.30	Cum	13.4797

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### Price Schedule A - Annexure: I

Name of work:- Repair and maintenance of epoxy floor inside factory area.

3	Providing and applying high strength , high abrasion resistant <b>epoxy resin based mortar/screed of minimum thickness 2 mm</b> (having compressive strength not less than 50 N/sqmm at 7 days and flexural strength not less than 20 N/sqmm at 7 days) to give proper level to the surface followed by application of seal coat (one or more coats) of approved quality having compatibility with the under surface of screed and <b>1000 micron (average) thick Self Levelling epoxy floor topping</b> of approved colour (compressive strength not less than 50 N/mm <sup>2</sup> at 7 days and flexural strength not less than 20 N/mm <sup>2</sup> at 7 days) in that order. High strength, high abrasion resistant epoxy screed shall be applied after application of one or more coats of compatible and appropriate epoxy primer. All work to be done as per manufacturer's specifications and instructions of Engineer-in-charge. All materials to be got approved before start of work. <b>Total minimum thickness of the multi-layered system shall be 3.0 mm.</b> Weight loss against abrasion resistance as per ASTM D4060 for product of self levelling top coat shall not be more than 75 mg when tested with CS17 wheel.	550.00	Sqm	85.3518
<b>Total:</b>				100.00

**Note :1** The contractor shall give a performance warranty of 01 (one) year for his work from date of actual completion of contract.

- 2 The contractor shall submit technical data sheets of all the products/chemicals to be used in the work along with his techno-commercial bid.
- 3 Before application , the Engineer -in-charge shall verify compressive strength, flexural strength, abrasion resistance etc of the products to be used in the treatment from their technical data sheets as well as to confirm that they are in line with the stipulated technical specifications. If required , the products/chemicals shall be got tested in a Govt. or Govt. approved laboratory or any recognised test house as per the instructions of Engineer-in-Charge and shall be got approved before application. Testing charges shall be borne by the contractor at no extra cost to BHEL over and above the quoted rates.
- 4 Cross verification of treated area shall be done after taking a cue from actual consumption of products during application with the help of gate pass entry of CISF as per dispatch documents of products , physical verification by Engineer-in-charge of products brought to site, empty boxes/drums etc. of products remaining after the treatment and also the coverage area of products as prescribed in their technical data sheets . Preparation of bill shall be done only after this cross verification to the satisfaction of Engineer-in-charge.
- 5 All building rubbish generated due to surface preparation, shall be disposed by the contractor upto 1 km lead within factory area without any extra cost to BHEL over and above his quoted rates.
- 6 All floor treatment as mentioned above shall be done as per application procedure of the manufacturer.

Seal & Signature of Contractor

Dy.Manager (FCX/PLG)

**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**

NIT No. FCX/19201008

**Price Schedule B & C**

Name of work:- Repair and maintenance of epoxy floor inside factory area.

Nil

Seal & Signature of Contractor

Dy.Manager (FCX/PLG)