

TENDER

TENDER NOTIFICATION NO. - FCX/22231067

FOR

Name of work : Drilling and injecting water proofing chemicals in pits of NTB and other location 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:

The evaluation currency for this tender shall be INR. Total price of the package consisting of **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 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: Drilling and injecting water proofing chemicals in pits of NTB and other location inside factory area.

SUMMARY

	Details ANNEXURE	Total Amount (Rs.)
	Total price of the package consisting of Annexure-I .	

Amount in words: Rs.

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NOTE:

1. EVALUATION The evaluation currency for this tender shall be INR. Total price of the package consisting of **Annexure-I** 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** 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: Drilling and injecting water proofing chemicals in pits of NTB and other location inside factory area.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1	<u>Surface preparation</u> : Removal of loose concrete in cracks or all surface by cutting and cleaning it by wire brush and disposing rubbish in the area directed by Engineer-in-charge within 50 m lead.	205.00	sqm	2.3125
2	<u>Drilling holes, supplying & fixing Non-Corrosive packer-</u> Providing & Fixing Packers- including drilling holes of dia 14 mm with 150 -200 mm depth on the concrete surface where the treatment to be carried out and at an offset of around 150 to 200 mm from the observed leakage locations and at an angle of approx. 45° to intercept the leak path inside the concrete. The drilled holes shall then be cleaned by air pressure and water to flush the injection port to clean all dust and dirt. Non-corrosive Aluminium injection Packers of size 14 mm x 100 mm with NRV arrangement shall be fixed (expandable type) and tightened properly in the injection port holes. cleaning with Compressed air, sealing leak paths, removing packers after injection, grinding etc. complete and as per the instructions of engineer in-charge.	50.00	No	3.9481
	Note:- Alluminium Injection Drill Packer to be fixed into this hole and tightened. A rapid setting cement around the packer to be used to prevent it from ungripping during injections at high pressures.			
3	<u>Preparing for grouting & sealing surface</u> : Sealing leak paths & top surface of the joint using fast setting mineral based polymer mortar, temporary sealing using aluminum/GI sheet all along the joint, as per Specification and instructions of engineer in-charge.	20.00	No	1.3536
ION	<u>Injection for stopping water flow/leakages</u> : Providing & injecting low viscus, 1 component fast foaming injection resins Asian paints PU Inject or equivalent is poured into the appropriate pit and materials to be injected using pneumatically / electrically operated injection pump MC I 510 / Graco 490 or Equivalent with controlled pressure, until packer to packer contact is observed. reaction time start in 15 Seconds in contact with water.	95.00	Kg	60.0113
	Note:- MC Fix ST / Cico 2 or equivalent to be applied as a quick plugging material, at the points where material can be washed out due to high water pressure. This is a temporary method to help the foam to built up in the structure.			

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Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
5	<u>Crystalline Waterproofing Coating- Krystol T1/ or equivalent application from negative side:</u> Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures prepared by mixing in the ratio of 5: 2 (5 parts integral crystalline slurry: 2 parts water) with the help of synthetic fiber brush. The material shall reduce the permeability of concrete by more than 90% compared with control concrete as per DIN 1048 Part 5. The crystalline slurry shall be capable of self-sealing of cracks up to a width of 0.5 mm by forming needle shaped crystals when reacts with unhydrated cement and moisture. The admixture should be hydrophilic in nature. The work shall be carried out all complete as per Manufacturer specification.			
	Two coats of Krystol T1 or equivalent	205.00	Sqm	32.3745
	Total : Annexure I			100.00

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule B & C

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The following material free issue from BHEL stores.

Nil