

# TENDER

TENDER NOTIFICATION NO. - **FCX/19201025**

FOR

**Renovation of underground storage water tank 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 Three Annexure:

Total price of the package combining 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 & 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.

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**Price Schedule**

Name of work : Renovation of underground storage water tank inside factory area.

**SUMMARY**

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

Amount in words: Rs.

.....  
.....

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.

Seal and Signature of bidder

Seal and Signature of BHEL Authority

**TENDER NOTIFICATION NO. - FCX/19201025**  
**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**

**Price Schedule : Anneuxre - I**

**Name of work : Renovation of underground storage water tank inside factory area.**

| <b>Sr. No.</b> | <b>Based on DSR' 2012</b> | <b>Item Description</b>  | <b>Qty.</b> | <b>Unit</b> | <b>% Weightage of item amount against total amount</b> |
|----------------|---------------------------|--|-------------|-------------|--|
| 1              |                           | Carriage of material up to 1 km lead by Mechanical transport including, loading, unloading & stacking -  |             |             |  |
|                | 1.1.1                     | Lime, Moorum, Building rubbish   | 10.00       | cum         | 0.2070   |
|                | 1.1.2                     | Earth  | 80.00       | cum         | 2.0696   |
| 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 kind of soil   | 100.00      | cum         | 4.0424   |
| 3              | 2.25                      | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations, etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5m   | 20.00       | cum         | 0.5238   |
| 4              |                           | Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.   |             |             |  |
|                | 2.26.1                    | All kind of soil   | 40.00       | cum         | 0.4325   |
| 5              |                           | Providing and laying in position cement concrete of specified grade excluding the cost of centering, shuttering- All work up to plinth level: <b>(excluding cost of cement which shall be supplied free of cost by BHEL)</b>   |             |             |  |
|                | 4.1.5                     | 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size ).   | 5.00        | cum         | 4.1607   |

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| <b>Sr. No.</b> | <b>Based on DSR' 2012</b> | <b>Item Description</b>   | <b>Qty.</b> | <b>Unit</b> | <b>% Weightage of item amount against total amount</b> |
|----------------|---------------------------|---|-------------|-------------|--|
| 6              |                           | Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level..(excluding cost of 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).   | 10.00       | cum         | 8.426  |
| 7              |                           | Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement : .(excluding cost of cement which shall be supplied free of cost by BHEL) |             |             |  |
|                | 5.2.2                     | 1 : 1.5 : 3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).   | 22.00       | cum         | 22.9437  |
| 8              |                           | Centering and shuttering including strutting, propping etc. and removal of form for :   |             |             |  |
| a              | 5.9.1                     | a) Foundations, footings, bases of columns, etc. for mass concrete.   | 10.00       | sqm         | 0.486  |
| b              | 5.9.2                     | b) Walls (any thickness) including attached pilasters, buttresses, plinth and string courses, etc.  | 110.00      | sqm         | 9.4176   |
| 9              |                           | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level :(excluding cost of reinforcement which shall be supplied free of cost by BHEL)   |             |             |  |
|                | Ana 5.22A.6               | Thermo-Mechanically Treated bars.   | 2400.00     | KG          | 5.5504   |
|                |                           |   |             |             |  |

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**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**

**Price Schedule : Anneuxre - I**

**Name of work : Renovation of underground storage water tank inside factory area.**

| <b>Sr. No.</b> | <b>Based on DSR' 2012</b> | <b>Item Description</b>   | <b>Qty.</b> | <b>Unit</b> | <b>% Weightage of item amount against total amount</b> |
|----------------|---------------------------|---|-------------|-------------|--|
| 10             | 5.37                      | Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge. |             |             |  |
|                |                           | (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).  |             |             |  |
|                | 5.37.1                    | All works upto plinth level   | 10.00       | cum         | 11.2123  |
| 11             |                           | Coursed rubble masonry (first sort) with hard stone in foundation and plinth with:  |             |             |  |
|                | 7.7.1                     | Cement mortar 1:6 ( 1 cement : 6 coarse sand).  | 1.00        | cum         | 0.8608   |
| 12             |                           | Coursed rubble masonry (first sort) with hard stone in foundation and plinth with: <b>(excluding cost of cement which shall be supplied free of cost by BHEL)</b>   |             |             |  |
|                | Ana 7.7.1                 | Cement mortar 1:6 ( 1 cement : 6 coarse sand).  | 1.00        | cum         | 0.5775   |

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**Price Schedule : Anneuxre - I**

**Name of work : Renovation of underground storage water tank inside factory area.**

| <b>Sr. No.</b> | <b>Based on DSR' 2012</b> | <b>Item Description</b>  | <b>Qty.</b> | <b>Unit</b> | <b>% Weightage of item amount against total amount</b> |
|----------------|---------------------------|--|-------------|-------------|--|
| 13             | 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). | 100.00      | kg          | 0.4078   |
| 14             |                           | 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) .   | 120.00      | sqm         | 3.7202   |
| 15             | 13.18                     | Neat cement punning.(excluding cost of cement which shall be supplied free of cost by BHEL)  | 140.00      | sqm         | 0.8024   |
| 16             |                           | Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.   |             |             |  |
|                | 15.2.1                    | Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)   | 5.00        | cum         | 1.0486   |
| 17             | 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.  | 5.00        | cum         | 1.5299   |
|                |                           | <b>Total :</b>   |             |             | <b>78.4192</b>   |

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## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule : Anneuxre - II

Name of work : Renovation of underground storage water tank inside factory area.

| Sr. No. | Item Description   | Qty.   | Unit | % Weightage of item amount against total amount |
|---------|--|--------|------|---|
| 1       | Supplying and filling in plinth with stone dust under floors, including watering, ramming, consolidating and dressing complete.  | 10.00  | cum  | 2.3099  |
| 2       | Half brick masonry with Ghol bricks of class designation 50 and above in foundations and plinth in:Cement mortar 1 : 4 (1 cement : 4 coarse sand) . <b>(Cement free issue by the Deptt.)</b> | 100.00 | sqm  | 19.2709   |
|         | Total :  |        |      | 21.5808   |
|         | Total : Annexure-I + Annexure-II   |        |      | 100.0000  |

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**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**

**Price Schedule B**

**Name of work : Renovation of underground storage water tank inside factory area.**

The following material free issue from BHEL stores.

- 1 Cement
- 2 Reinforcement Steel.
- 3 Stone for C.R.Masonry against item no 12 of Annexure-I
- 4 Structural steel
- 5 Red oxide zinc chromate primer
- 6 Synthetic enamel paint

**Price Schedule C**

**Name of work : Renovation of underground storage water tank 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