

TENDER

TENDER NOTIFICATION NO. - **FCX/20211018**

FOR

**Renovation and modification of room for 11 KV VM-12
breaker at North of blk-4 substation & other area 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:

The evaluation currency for this tender shall be INR. 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 & MAINTENANCE DIVISION**Price Schedule**

Renovation and modification of room for 11 KV VM-12 breaker at North of blk-4 substation & other area 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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The evaluation currency for this tender shall be INR. 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 & MAINTENANCE DIVISION

Price Schedule : Anneuxre - I

Name of work : Renovation and modification of room for 11 KV VM-12 breaker at North of blk-4 substation & other area 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 | 1.00 | cum | 0.0220 |
| | 1.1.2 | b) Earth - 1 Km lead | 1.00 | cum | 0.0275 |
| 2 | | 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 | 0.2148 |
| 3 | | 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) | | | |
| | 4.1.3 | 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size). | 6.00 | cum | 5.1344 |
| 4 | | 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 | 3.00 | cum | 2.6865 |

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule : Anneuxre - I

Name of work : Renovation and modification of room for 11 KV VM-12 breaker at North of blk-4 substation & other area inside factory area.

| Sr. No. | Based on DSR' 2012 | Item Description | Qty. | Unit | % Weightage of item amount against total amount |
|---------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-------------------------------------------------|
| 5 | 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 which shall be supplied free of cost by BHEL) | 35.00 | cum | 41.3493 |
| 6 | | Centering and shuttering including strutting, propping etc. and removal of form for : | | | |
| (a) | 5.9.1 | Foundations, footings, bases of columns, etc. for mass concrete. | 10.00 | sqm | 0.5165 |
| (b) | 5.9.3 | Suspended floors, roofs, landings, balconies and access platform. | 130.00 | sqm | 13.0098 |
| (c) | 5.9.6 | Columns, pillars, piers, abutments, posts and struts. | 50.00 | sqm | 5.8046 |
| 7 | 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. | 3200.00 | kg | 7.8652 |
| 8 | 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). | 200.00 | Kg | 0.8503 |

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

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| Sr. No. | Based on DSR' 2012 | Item Description | Qty. | Unit | % Weightage of item amount against total amount |
|---------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------------------------------------------------|
| 9 | | 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 | 30.00 | metre | 1.8270 |
| 10 | | 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: | | | |
| | 12.42.5.2 | Bend 87.5 degree | | | |
| | | 110 mm bend | 6.00 | each | 0.2720 |
| 11 | | Providing and fixing unplasticised-PVC pipe clips of approved design to unplasticised-PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1: 4 (1 cement : 4 coarse sand) and making good the wall etc. complete: (cement which shall be supplied free of cost by BHEL) | | | |
| | 12.43.2 | 110 mm. | 10.00 | each | 0.4523 |
| 12 | | 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) | 1.00 | cum | 0.2229 |
| (b) | 15.2.2 | Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix) | 1.00 | cum | 0.1374 |

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

Name of work : Renovation and modification of room for 11 KV VM-12 breaker at North of blk-4 substation & other area inside factory area.

| Sr. No. | Based on DSR' 2012 | Item Description | Qty. | Unit | % Weightage of item amount against total amount |
|---------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------------------------------------------------|
| 13 | | 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 | 0.1883 |
| | | Total : Annexure I | | | 80.5808 |

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

Name of work : Renovation and modification of room for 11 KV VM-12 breaker at North of blk-4 substation & other area 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 superstructure above plinth level upto floor V level in all shapes and sizes in cement mortar 1:6 (1 cement : 6 coarse sand) : (cement which shall be supplied free of cost by BHEL) | 10.00 | cum | 19.4192 |
| | | | | |
| | Total : Annexure II | | | 19.4192 |
| | Total : Annexure I + Annexure II | | | 100.0000 |

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Price Schedule : "B"

Name of work : Renovation and modification of room for 11 KV VM-12 breaker at North of blk-4 substation & other area inside factory area.

The following material free issue from BHEL stores.

- 1) Cement
- 2) Reinforcement steel
- 3) Structural steel
- 4) Red Oxide Primer

Price Schedule : "C"

Name of work : Renovation and modification of room for 11 KV VM-12 breaker at North of blk-4 substation & other area inside factory area.

Hire charges.

- i) Drill machine @ 252.00/- per day (Subject to availability)
- ii) Jack Hammer @108.00/- per day

Drill machine/jack hammer rod Rs. 100.00 per rod