



**TENDER DOCUMENT**

**For Works Contract**

**For Tender Enquiry No : FCX/TW/22/12**

**For**

**"Construction of storage platform near CDC & Canteen inside factory area."**

**Contact Person :**

Name : MS Monika

Designation : Manager (CMM)

Email : monikav@bhel.in

PH : 0510 – 2770001 – 2414

Or

Name : P B S Ekka

Designation : AGM (CMM)

Email : pbsekka@bhel.in

PH : 0510 – 2770001 – 2549

**Tender Due Date :- 18/10/2022 at 13 :15 Hrs**

**Tender Opening Date : 18/10/2022 at 14 :00 Hrs**

**Material Management Department  
BHEL, PO : BHEL, Jhansi 284120 (UP)**

**Detail of Bidder and Documents to be submitted along with Technical Bid**

Please number your documents in continuation with tender documents at bottom (footer) of page.

| S.No.            | Particular                                                                                                  | Detail                   |         |
|------------------|-------------------------------------------------------------------------------------------------------------|--------------------------|---------|
| 1.               | Name of the firm                                                                                            |                          |         |
| 2.               | Name of the Proprietor/Partners                                                                             |                          |         |
| 3.               | Address                                                                                                     |                          |         |
| 4.               | Mobile No.                                                                                                  |                          |         |
| 5.               | E-mail ID                                                                                                   |                          |         |
| <b>Documents</b> |                                                                                                             |                          |         |
|                  | Particular                                                                                                  | Detail                   | Page No |
| 6.               | Acceptance of Terms & conditions<br>Signature on all pages without<br>conditions of contractor              | Submitted/ Not submitted |         |
| 7.               | Blank price bid format duly signed by<br>the contractor.                                                    | Submitted/ Not submitted |         |
| 8.               | Copy of ESI Registration                                                                                    | ESI No-                  |         |
| 9.               | Copy of PAN card                                                                                            | PAN No-                  |         |
| 10.              | Copy of GST registration                                                                                    | GST No-                  |         |
| 11.              | Self declaration as per as per annexure<br>V on Rs 100 stamp paper .                                        | Submitted/ Not submitted |         |
| 12.              | Copy of ownership of firm                                                                                   | Submitted/ Not submitted |         |
| 13.              | Reciept of tender fees deposition                                                                           | Amount                   |         |
| 14.              | Reciept of EMD deposition                                                                                   | Amount                   |         |
| 15.              | Copy of turn over and income tax return<br>for last three year<br>i. 2019-20<br>ii. 2020-21<br>iii. 2021-22 | Submitted/ Not submitted |         |

**BHARAT HEAVY ELECTRICALS LIMITED, JHANSI****Factory Civil Department****TENDER DOCUMENT****TENDER ENQUIRY NO. : FCX/TW/22/12****DATE:- 03/10/2022**

|            |                                                                                                                                                                 |                          |  |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--|
| <b>16.</b> | Work Experience<br>i. Work order<br>ii. Completion Certificate<br>iii. Bill of Quantity<br><b>Relevant TDS/TRACES (in case of Experience in private sector)</b> | Submitted/ Not submitted |  |
| <b>17.</b> | Copy of PF registration                                                                                                                                         | PF No-                   |  |

We will fulfill all the obligations of the contractor and abide by the terms & Conditions mentioned in the enquiry.

Date :-

Signature With Name &amp; Seal

**We hereby accepted above (Signature & seal of bidder)****Seal & Signature OF BHEL contracting authority**

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## **NOTICE INVITING TENDER**



**1- NOTICE INVITING TENDER**

| S. No. | Particulars                        | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.     | Name of work                       | <b>Construction of storage platform near CDC &amp; Canteen inside factory area</b>                                                                                                                                                                                                                                                                                                                                                                                          |
| 2.     | Tender Evaluation Criteria         | As per GTC issued by "Central Contracting Cell" and Tender Documents.                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3.     | Duration of the Contract           | <b>6 Months</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 4.     | Last date of receipt of the Tender | (As on page # 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5.     | Date of opening Tender             | (As on page # 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 6.     | Address for submitting the tender  | (As on page # 7)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 7.     | Earnest Money Deposit (EMD)        | <b>Rs. 18525</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 8.     | Cost of tender<br>(Non refundable) | <b>Rs. Nil</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 9.     | Validity of Offer                  | 120 days                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 10.    | Reverse Auction                    | BHEL Shall be resorting to reverse auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA. In case any bidder(s) do(es) not participate in the reverse auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking. |
| 11.    | Defect liability period            | <b>12 months after completion of work.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 12.    | Reverse Auction                    | <b>RA will be conducted for this tender</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 13.    | MSME Benefit                       | <b>Not Applicable</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 14.    | Start-up scheme Benefit            | <b>Not Applicable</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Note:** The EMD may be accepted only in the following forms:

(i) Electronic Fund Transfer credited in BHEL account (before tender opening)

**BHEL account details: Bank Name: - SBI; A/c No.:- 10670828866 ; IFSC Code:- SBIN0003807 A/c Holder Name:- BHARAT HEAVY ELECTRICALS LIMITED**

(ii) At BHEL cash office through POS machine **No Demand Drafts shall be accepted.**

The contractors may physically visit the work place before quoting their rates. For relevant details, please visit our website "www.bhel.com" & "www.eprocure.gov.in"

**Note: BHEL takes no responsibility for any delay / loss of documents or correspondence sent by courier or post. Late tenders shall be rejected outright.**

The techno-commercial bid comprising (i) all its sections, (ii) all enclosures in support of various clauses and requirements and (iii) EMD, shall be duly signed and sent in a sealed envelope boldly super-scribing **"PART-I TECHNO COMMERCIAL BID FOR Construction of storage platform near CDC & Canteen inside factory area"**. Similarly, the Price-bid must be duly signed and sent in a sealed envelope boldly super-scribing **"PART-II PRICE BID Civil work for Construction of storage platform near CDC & Canteen inside factory area"**. Both these envelopes shall be placed inside 3<sup>rd</sup> sealed envelope super-scribing "duly signed and sent in a sealed envelope boldly super-scribing **Construction of storage platform near CDC & Canteen inside factory area**."

**We hereby accepted above (Signature & seal of bidder)**

**Seal & Signature OF BHEL contracting authority**

**The tender shall be addressed to as follows:**

Name : MS Monika

Designation : Manager (CMM)

Email : monikav@bhel.in

PH : 0510 – 2770001 – 2414

Sealed Tenders can be submitted (i) personally, (ii) by Courier, or (iii) by post.

If submitted personally

Tender Box

Security Control Room/Office

Administrative Building

Bharat Heavy Electricals Limited

Jhansi-284120 (U P)

Or if sent through Courier / Post

Office of

Name : P B S Ekka

Designation : AGM (CMM)

Email : pbsekka@bhel.in

PH : 0510 – 2770001 – 2549

**Part-I Techno Commercial bid:**

Part I of the sealed tenders alone will be opened by BHEL in the presence of tenderers who are present at the time & place of opening. A signed blank price-bid copy should be enclosed with this bid. The spaces for prices should be crossed (x).

**Part-II Price bid:**

The price bid should contain prices only. Price bid will be opened only for the parties who qualify in techno commercial bid.

**TO BE SIGNED BY THE TENDERER**

Certified that all Sections of the Tender have been read / complied & agreed to, and each page of the tender offer has been signed & stamped.

**Brief Description of Work / Scope of work**

| <b>S. No.</b> | <b>DSR 2016 Reference</b> | <b>DESCRIPTION OF ITEM</b>                                                                                                                                                                                                                                                                                                                                                            | <b>Unit</b> | <b>Total Qty</b> |
|---------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|
| 1             | 1.1.1/68                  | By Mechanical Transport including loading, unloading and stacking Lime, moorum, building rubbish upto 1 km .                                                                                                                                                                                                                                                                          | Cum         | 7.00             |
| 2             | 1.1.2/68                  | By Mechanical Transport including loading, unloading and stacking Earth upto 1 km .                                                                                                                                                                                                                                                                                                   | Cum         | 90.00            |
| 3             | 2.6.1/76                  | 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 getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. All kinds of soil                                                                       | Cum         | 242.00           |
| 4             | 2.8.1/76                  | Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All Kinds of soil        | Cum         | 55.00            |
| 5             | 2.9.1/77                  | Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. - ordinary rock                   | Cum         | 17.00            |
| 6             | 2.9.3/77                  | Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. - Hard rock (blasting prohibited) | Cum         | 9.00             |
| 7             | 2.25/79                   | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.                                                                                                                                             | Cum         | 73.00            |
| 8             | 4.1.6/88                  | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1                                                                                                                                                                                                                           | Cum         | 129.00           |

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|    |            |                                                                                                                                                                                                                                                                           |       |          |
|----|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|
|    |            | Cement : 3 coarse sand (zone-III): 6 graded stone aggregate 40 mm nominal size).                                                                                                                                                                                          |       |          |
| 9  | 5.1.3/97   | 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 : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).  | Cum   | 133.00   |
| 10 | 5.9.1/98   | Centering and shuttering including strutting, propping etc. and removal of form for all heights : Foundations, footings, bases of columns, etc. for mass concrete                                                                                                         | Sqm   | 158.00   |
| 11 | 5.22.6/100 | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.                                                                 | Kg    | 3990.00  |
| 12 | 6.1.2/111  | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)                                                                                                          | Cum   | 7.00     |
| 13 | 11.3.1/191 | Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate. | Sqm   | 977.00   |
| 14 | 13.1.2/227 | 12 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand)                                                                                                                                                                                                                 | Sqm   | 107.00   |
| 15 | 13.2.2/227 | 15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 fine sand)                                                                                                                                                                  | Sqm   | 107.00   |
| 16 | 15.2.1/253 | Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)                                                 | Cum   | 3.00     |
| 17 | 15.3/253   | 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.                                                                            | Cum   | 4.00     |
| 18 | 19.1.5/354 | Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 300 mm diameter                                                        | Metre | 60.00    |
| 19 | 19.3.5/354 | Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design : 300 mm diameter S.W. pipe                                              | Metre | 60.00    |
| 20 | DSR        | Not covered above but covered in DSR-2016                                                                                                                                                                                                                                 | DSR   | 15000.00 |

We hereby accepted above (Signature &amp; seal of bidder)

Seal &amp; Signature OF BHEL contracting authority

**Qualifying Requirements**

1. Copy of PAN Card to be submitted.
2. Copy of GST Registration to be submitted.
3. Self-Declaration undertaking duly signed with stamp of the bidder on letter Pad of contractor to be submitted.
4. Copy of independent ESI Registration.
5. Signed copy of Blank Price Bid.
6. **Similar Completed work-** The bidder should have the experience of having successfully completed similar work against completed work order in past seven years ending last day of the month previous to the one in which applications are invited for amounting to values mentioned as under:

One Work valuing not less than **Rs 7.41 Lakhs** . Or

Two works each valuing not less than **Rs 4.63 Lakhs**. Or

Three works each valuing not less than **Rs 3.71 Lakhs** .

**Definition of Similar Work: All type Civil construction/Maintenance /Renovation works .**

(Note: For verification by the department, work order copy and work completion certificate mentioning successful completion by the client shall be submitted by the vendor. If the work is done for a private customer, relevant TDS Certificate (TRACES Only) must be submitted as evidence in addition to above work completion certificate & work order copy by the vendor.

**7. Turnover criteria:** Average annual financial turnover during the last three years, ending 31st March , 2022 {i.e. FY-2019-20, FY-2020-21 and FY 2021-22) applicable as per norm shall be at least **Rs 2.78 Lakhs**. Duly audited financial statement/balance sheet/certified by CA to be submitted as supporting documents. If all balance sheet/financial statement are not available for three years than the average shall be calculated by dividing the sum of turnover of submitted balance sheet/certificate from CA/Financial statement by three.

**Note-1:- Benefits under MSMED Act:** Being a work contract involving usage of incidental material, benefits under MSMED act will not be applicable under this contract.

**Note-2:- Benefits under Start Up Scheme:** Considering critical quality aspects and technical specification implications for the work, no relaxation shall be given to Start-up bidders on account of *turnover criteria* & prior experience.

8. Documentary proof in support of above eligibility criteria along with EMD shall be submitted along with Techno Commercial Bid.( **EMD Rs.-18525.00** )

**9.** The documents required for legal entities under whose name and style contractor has participated in the tender are as follows:

- (i) Partnership Firm: Partnership Deed & registration certificate issued by office of registrar of Firms.
- (ii) Company: Certified copy Memorandum of Association, Article of Association and Incorporation Certificate.
- (iii) Society: Registration certificate issued by Registrar of societies.
- (iv) Sole Proprietor-ship: Undertaking on oath (Rs. 100 stamp paper) that Proprietor is solely responsible for all rights and liabilities while working under the name and style of Sole Proprietorship firm namely (\_\_\_\_\_)

**10.** Bidders are required to submit a self-declaration to avoid cartel formation on their letter head as per the Format enclosed in **Annexure A**.

**GENERAL TERMS AND CONDITIONS OF ENQUIRY FOR WORKS**  
**CONTRACTS (JHS 2055C R02)**

**UPLOADED IN SEPERATE FILE - PAGE NO 01 TO 14**  
**(To be signed by contractor and submitted along with bid)**

**TECHNICAL SPECIFICATION**

1. The works shall be executed with the directions, instructions, which shall be given to the contractor by BHEL from time to time and as per technical specifications in price schedule and drawings available in the office to give a general idea of the work to be executed and is liable for modifications during the actual execution based on the designs prepared and approved by the Competent authority.
2. If the specifications found wanting relevant technical specifications along with the tender shall be followed. Further missing details relevant CPWD and IS specifications shall be followed. Wherever, there is difference in between CPWD and IS specifications latter shall prevail.
3. For execution of all scheduled items CPWD specifications and relevant IS codes are to be followed. For execution of non-scheduled items specifications enclosed with this tender are to be followed.
4. Specialized works are to be executed by specialized agency with the approval of BHEL.
5. The materials in the scope of contractor shall have to be got approved by the contractor from the Engineer-in-charge before supplying inside the factory area. Testing of these materials (If required) shall be carried out at any BHEL or Govt approved/NABL approved lab whose cost will be borne by the contractor.
6. Contractor shall ensure that quality is maintained in all works connected with this contract all stages as per requirement of BHEL. Contractor shall ensure all inspection, measuring and testing equipment are calibrated by authorized agency/BHEL and valid calibration must be available with them for verification by BHEL.
7. The contractor shall be fully and finally responsible for correctness and quality of his work to the entire satisfaction of the BHEL/Customer.
8. If in the opinion of the contractor any work is insufficiently specified or required modifications, the contractor shall refer the same in writing to the Engineer and obtain his instruction/approval in writing before proceeding with the work. If contractor fails to refer such instance, any excuse for faulty erection, for poor workmanship or delay in completion shall not be entertained.
9. Material reconciliation statement has to be submitted by the contractor as & when required by BHEL.
10. The BHEL reserves the right to deviate either by additions or by deductions from the schedule of items of work given in the tender document after awarding work.
11. The quantity of items in the BOQ can vary to any extent during the execution as per the actual site requirement as per instruction of Engineer-in-Charge with restriction of awarded value of work and the contractor shall not be liable for any claim of compensation on this account.
12. In case of any difference between agreement, wording and detailed drawings the interpretation of the BHEL shall be final and binding on the contractor.
13. The final acceptance of work in all items are subject to proper performance regardless of whether the items are paid for or not.
14. If discrepancy in specifications observed between schedule of quantities and general / technical conditions, the specifications in schedule of quantities will have precedence over the general / technical conditions.
15. Water will be supplied free of cost at one point for drinking and construction.
16. Quantity records shall be prepared, maintained and submitted by contractor on regular basis during the course of execution. Test records shall be prepared, maintained and submitted by contractor during the course of execution and as demanded by Engineer-In-Charge. Contractor shall strictly adhere to quality requirements and shall follow the norms mentioned in Field Quality Plan (if applicable).

17. In case of defective work BHEL will have full right to reject the work or part thereof. Such defective work if any, will have to be rectified by the contractor at his own cost. The opinion of Engineer in charge shall be final in this matter. If the defective work is allowed to stand BHEL shall have the absolute right to reduce the rates for such items and the contractor shall have no claims over such defective work allowed on reduced rates.
- 17 The contractor shall have to make his own storage sheds for materials to be issued by BHEL. If deemed necessary by engineer in charge, the contractor shall make separate store for cement with double lock system. The empty cement bags shall be stocked at one place and at least 90% of them shall be returned to BHEL at BHEL stores in good condition without any additional payment. Therefore, if the total quantity of 90% empty cement bags is not returned by the contractor, the same will be recovered at the rate of Rs 3/- per bag from the bills.
- 18 For all natural minerals used in the work like sand, aggregate etc. royalty certificate (MM-11) must be submitted along with bills. If royalty certificate is not submitted the cost of royalty shall be deducted from contractors bill as per prevailing Govt. order including penalty as applicable.
19. Any electric power required for contractors' lighting/machinery for the purpose of work including fabrication work shall be supplied FREE OF COST at one point by the company on the written request of the contractor, subject to the observance of rules and regulations of Electric board / company. If it is observed that power is being wasted, BHEL shall have the right to recover cost of such consumption including arrears. Power will not be allowed for cooking and room (air) heating in winter season: For this purpose, on written application chargeable power can be allowed. The rates shall be the rates applicable for industrial consumption in U.P.

**20. ACCOUNTING**

- a) Proper method of accounting of steel, TOR steel, cement & scrap material shall be followed. The books of such accounting be offered for auditing by BHEL at pre-decided regular interval.
- b) All debris and surplus materials shall be cleared from the site as and when directed by the Engineer-in-charge. Any temporary structure / stores made by the contractor for the work shall be demolished and site cleared before payment of final bill.
- c) Structural steel wastage /scrap shall be permissible upto 2% of total quantity of issued quantity. The wastage /scrap steel must be return by contract for reconciliation of steel. Wastage scrap beyond 2% will deducted @ Rs.75 per kg.

**21. METHODS OF MEASUREMENTS**

Except where any general or detailed description of the work in quantities expressly shows the contrary, schedule of quantities shall be deemed to have been prepared and measurements shall be taken in accordance with the procedure set forth in the schedule of rates – specification notwithstanding any provision in the relevant standard method of measurement or any general or local custom. In the case of items which are not covered by the CPWD schedule of rates – specification, measurement shall be taken in accordance with the relevant standard method of measurement issued by the Indian standards institution.

**22. FREE ISSUE MATERIAL TO THE CONTRACTOR.****SCHEDULE "A"**

| S No. | Particulars          | Rs.          | Quantity    |
|-------|----------------------|--------------|-------------|
| 1     | Structural steel     | Free of cost | As required |
| 2     | Reinforcement steel  | Free of cost | As required |
| 3     | Cement Bags (50 KGs) | Free of cost | As required |

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Note: Tools and Plants if issued to contractor on chargeable basis than the amount shall be deducted as per rates decided by BHEL prior to issue.

23. **Payment terms** - As per work contract GTC (JHS2055C R02). 70% payment on completion of activity as per BOQ against monthly bill and balance 30% on completion of all the activities as per BOQ against final bill.

**BLANK PRICE BID (JS 472)**

| Sl. No. | Description of Work                                                                                                                                                                                                                                                                                                                                                            | % Allocation (Item-wise) | Unit | Quantity | Rate per Unit (in Rs.) | Amount (in Rs.) |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------|----------|------------------------|-----------------|
| 1       | By Mechanical Transport including loading, unloading and stacking Lime, moorum, building rubbish upto 1 km .                                                                                                                                                                                                                                                                   | 0.0385899963             | Cum  | 7.00     | #VALUE!                | #VALUE!         |
| 2       | By Mechanical Transport including loading, unloading and stacking Earth upto 1 km .                                                                                                                                                                                                                                                                                            | 0.6201333083             | Cum  | 90.00    | #VALUE!                | #VALUE!         |
| 3       | 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 getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. All kinds of soil                                                                | 2.1356293610             | Cum  | 242.00   | #VALUE!                | #VALUE!         |
| 4       | Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All Kinds of soil | 0.6412514448             | Cum  | 55.00    | #VALUE!                | #VALUE!         |

We hereby accepted above (Signature &amp; seal of bidder)

Seal &amp; Signature OF BHEL contracting authority

**BHARAT HEAVY ELECTRICALS LIMITED, JHANSI****Factory Civil Department****TENDER DOCUMENT****TENDER ENQUIRY NO. : FCX/TW/22/12****DATE:- 03/10/2022**

|   |                                                                                                                                                                                                                                                                                                                                                                                       |                   |     |        |              |         |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----|--------|--------------|---------|
| 5 | Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. - ordinary rock                   | 0.3285748020      | Cum | 17.00  | #VALUE!<br>! | #VALUE! |
| 6 | Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. - Hard rock (blasting prohibited) | 0.4141158669      | Cum | 9.00   | #VALUE!<br>! | #VALUE! |
| 7 | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.                                                                                                                                             | 0.6431957988      | Cum | 73.00  | #VALUE!<br>! | #VALUE! |
| 8 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand (zone-III): 6 graded stone aggregate 40 mm nominal size).                                                                                                                                          | 29.294614442<br>2 | Cum | 129.00 | #VALUE!<br>! | #VALUE! |

**We hereby accepted above (Signature & seal of bidder)****Seal & Signature OF BHEL contracting authority**

**BHARAT HEAVY ELECTRICALS LIMITED, JHANSI****Factory Civil Department****TENDER DOCUMENT****TENDER ENQUIRY NO. : FCX/TW/22/12****DATE:- 03/10/2022**

|    |                                                                                                                                                                                                                                                                           |               |     |         |              |         |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----|---------|--------------|---------|
| 9  | 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 : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).  | 32.860627599  | Cum | 133.00  | #VALUE!<br>! | #VALUE! |
| 10 | Centering and shuttering including strutting, propping etc. and removal of form for all heights : Foundations, footings, bases of columns, etc. for mass concrete                                                                                                         | 2.0416319328  | Sqm | 158.00  | #VALUE!<br>! | #VALUE! |
| 11 | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.                                                                 | 3.0724366236  | Kg  | 3990.00 | #VALUE!<br>! | #VALUE! |
| 12 | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)                                                                                                          | 1.9212746700  | Cum | 7.00    | #VALUE!<br>! | #VALUE! |
| 13 | Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate. | 16.8619029280 | Sqm | 977.00  | #VALUE!<br>! | #VALUE! |
| 14 | 12 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand)                                                                                                                                                                                                                 | 1.0158636443  | Sqm | 107.00  | #VALUE!<br>! | #VALUE! |
| 15 | 15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 fine sand)                                                                                                                                                                  | 1.1658815891  | Sqm | 107.00  | #VALUE!<br>! | #VALUE! |

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|    |                                                                                                                                                                                                                                |              |                               |              |              |         |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------|--------------|--------------|---------|
| 16 | Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.<br>Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) | 0.2095803386 | Cum                           | 3.00         | #VALUE!<br>! | #VALUE! |
| 17 | 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.                                  | 0.4076627137 | Cum                           | 4.00         | #VALUE!<br>! | #VALUE! |
| 18 | Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 300 mm diameter             | 2.8452730190 | Metre                         | 60.00        | #VALUE!<br>! | #VALUE! |
| 19 | Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design : 300 mm diameter S.W. pipe   | 2.4307577713 | Metre                         | 60.00        | #VALUE!<br>! | #VALUE! |
| 20 | Not covered above but covered in DSR-2016                                                                                                                                                                                      | 1.0510021495 | DSR                           | 15000.0<br>0 | #VALUE!<br>! | #VALUE! |
|    | Total                                                                                                                                                                                                                          | 100.00       | Total amount quoted by bidder |              |              | XXXXX   |
|    | IN WORDS                                                                                                                                                                                                                       | 0            |                               |              |              |         |

**Note -GST extra as applicable****Don't Fill rates in this sheet.****We hereby accepted above (Signature & seal of bidder)****Seal & Signature OF BHEL contracting authority**

**Annexures (I-XII)**

**Attached below**

**(To be signed by contractor and submitted along with bid)**

ANNEXURE –A

**DECLARATION BY BIDDER (on letter pad)**

We declare that the following family firms or sister concern affiliates / subsidiary firms are participating in the tender No- \_\_\_\_\_.

1.0.....

2.0.....

3.0.....

I..... , hereby declare on behalf of  
M/s..... and the family firms or sister concern  
affiliates / subsidiary firms listed above that we are not indulging in cartel formation for tender  
No \_\_\_\_\_.

Name & signature of the bidder  
(Seal)

**SOP For Implementation of Risk and Cost (TOTAL 10 PAGES)**

**UPLOADED IN SEPARATE FILE**

**(To be signed by contractor and submitted along with bid)**

**Format JS 146 - Price Bid Sheet (in a separate envelope)**

**UPLOADED IN SEPARATE FILE**