



**BHARAT HEAVY ELECTRICALS LIMITED
TRANSFORMER PLANT, JHANSI
TOWNSHIP CIVIL DEPARTMENT**

Tender Enquiry No: TCX/TW/24/03 Date: - 03/06/2024

TD: 2024-25, Rev- 00



TENDER DOCUMENT for Works Contract

For Tender Enquiry No.: **TCX/TW/24/03**

For

“Misc. repair and maintenance works of Hospital ward in the Township premises of BHEL TP Jhansi”

Contact Person:

Name : Ms Monika

Sr.Manager (CMM)

Email : monikav@bhel.in

PH : 0510 – 2770001 – 2414

Tender Due Date : 11/06 /2024 at 13 :15 Hrs

Tender Opening Date : 11 /06/2024 at 14 :00 Hrs

We hereby accepted above (signature & seal of bidder)

Seal & Signature of BHEL contracting authority



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**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 | | |
| Essential Documents | | | |
| | Particular | Detail | Page No |
| 6. | Acceptance of Terms & conditions Signature on all pages without conditions of contractor | Submitted/ Not submitted | |
| 7. | Copy of PAN card | PAN No- | |
| 8. | Copy of GST registration | GST No- | |
| 9. | Self declaration as per as per annexure V of GTC . | Submitted/ Not submitted | |
| 10. | Copy of ESI Registration | ESI No- | |
| 11. | Blank price bid format duly signed by the contractor. | Submitted/ Not submitted | |
| 12. | Work Experience i. Work Order ii. Completion Certificate iii. Bill of Quantity Relevant TDS/TRACES Certificate must be attached as evidence. | Submitted/ Not submitted | |



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| | | | |
|------------|--|--------------------------|--|
| | In case experience is submitted for work done in BHEL Jhansi, TDS/Tax invoice is not required. | | |
| 13. | Copy of turn over and income tax return for last three year i. 2021-22 ii. 2022-23 iii. 2023-24 | Submitted/ Not submitted | |
| 14. | Receipt of EMD deposition | Amount: NIL | |
| 15. | Copy of ownership of firm | Submitted/ Not submitted | |
| 16. | Self-declaration to avoid cartel formation on their letter head as per the Format enclosed in Annexure A. | Submitted/ Not submitted | |
| 17. | Receipt of tender fees deposition | Amount: NIL | |
| 18. | Copy of PF registration | PF No- | |

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

Date : -

Signature With Name & Seal

We hereby accepted above (signature & seal of bidder)

Seal & Signature of BHEL contracting authority



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PART II: PRICE BID

(Separate envelope)

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NOTICE INVITING TENDER



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NOTICE INVITING TENDER

| S. No. | Particulars | Details |
|--------|------------------------------------|--|
| 1. | Name of work | Misc. repair and maintenance works of Hospital ward in the Township premises of BHEL TP Jhansi |
| 2. | Tender Evaluation Criteria | As per GTC issued by "Central Contracting Cell" and Tender Documents. |
| 3. | Duration of the Contract | 02 months from the date of issue of Work Order |
| 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) | Rs. NIL |
| 8. | Cost of tender (Non refundable) | Rs. Nil |
| 9. | Validity of Offer | 120 days from the date of Techno- commercial (Part-I) bid opening date |
| 10. | Defect liability period | One year from the date of actual date of completion of work |
| 11. | Reverse Auction | RA will not be conducted for this tender. |

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 placed in a sealed envelope boldly super-scribing "PART-I TECHNO COMMERCIAL BID FOR "Misc. repair and maintenance works of Hospital ward in the Township premises of BHEL TP Jhansi ".



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Similarly, the Price-bid must be duly signed and placed in a sealed envelope boldly super-scribing **“PART-II PRICE BID FOR “Misc. repair and maintenance works of Hospital ward in the Township premises of BHEL TP Jhansi “.**

Both these envelopes shall be placed inside 3rd sealed envelope duly signed super-scribing boldly **“Misc. repair and maintenance works of Hospital ward in the Township premises of BHEL TP Jhansi “and sent in a sealed envelope.**

The tender shall be addressed to as follows:

Ms Monika

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

Ms Monika

Manager (CMM)

Material Management Department

Email : monikav@bhel.in

BHEL, JHANSI - 284120

PH : 0510 – 2770001 – 2414

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:

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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.

(Signature of Authorized person(s))



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BRIEF DESCRIPTION OF WORK / SCOPE OF WORK

| Sl. No. | Description of work | Unit | Qty. | % Allocation |
|---------|--|------|--------|--------------|
| 1 | P and L in position Cement concrete -1:2:4 (1 Cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) excluding the cost of entering and shuttering all work up to plinth level. | cum | 1.00 | 0.49927400% |
| 2 | Brick work with FPS bricks of (II nd class kanpur brick) in Super structure 1:6 (1 cement : 6 fine sand) upto floor five level. | cum | 2.00 | 1.46543600% |
| 3 | Providing Half Brick masonry in super structure upto floor five level . 1:4 (1 cement :4 coarse sand) | sqm | 3.00 | 0.26169300% |
| 4 | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete | sqm | 34.00 | 3.33437000% |
| 5 | Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigments etc., complete | sqm | 15.00 | 1.42461000% |
| 6 | Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622 , of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). Size of Tile 600x600 mm | sqm | 109.00 | 15.55590700% |

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| | | | | |
|----|--|-----|-------|-------------|
| 7 | 12 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand) | sqm | 10.00 | 0.20908700% |
| 8 | 15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 fine sand) | sqm | 10.00 | 0.23997300% |
| 9 | Demolishing cement concrete including disposal of material within 50 meter lead (1:3:6) | cum | 2.00 | 0.30770500% |
| 10 | Demolishing brick work in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 meter lead. | cum | 3.00 | 0.39012600% |
| 11 | Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane....3 mm thick | sqm | 36.00 | 2.06047900% |



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| | | | | |
|----|---|------|----------|-------------|
| 12 | Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/ system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge. | sqm | 114.00 | 5.10112100% |
| 13 | All items of DSR 2016 not covered above | L.S. | 30000.00 | 4.66873200% |
| 14 | Providing and fixing glazing in fixed aluminium structure with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge :- With French embossed (etched) float glass panes of 12 mm thickness.Brand- Modiguard/ SAINTGOBAIN / TRIVENI or equivalent | Sqm | 5.00 | 4.86449500% |
| 15 | Fixed frame work for aesthetic purpose with built up standard tubular sections/appropriate Z sections and other sections of Polyester powder coated aluminium with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per required pattern & shape and the directions of Engineer-in-charge. | Kg | 38.00 | 4.01660300% |



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| | | | | |
|----|--|-----|-------|--------------|
| 16 | Providing and fixing suspended false ceiling made out of 10 mm to 12.50 mm thick Gypsum Plaster Boards consisting of G.I standard section framework in the pattern and design as per direction of the Engineer-in-charge. The G.I. Section frame work shall be tied to the roof and walls with the anchor fastener screws/bolts of appropriate size recommended by the manufacturer (max. 450 mm C/C) . The boards shall be fixed to the frame work with the screws and the joints shall be flushed and finished with requisite jointing compounds paper tapes etc. Rates includes execution of works in different levels/offsets etc. The surface shall be finished evenly by applying putty,sand papering,applying 2 coat primer evenly complete. Rate inclusive of materials transportation, loading/unloading labor, tools and tackles up to any lead and lift complete in all respects. Brand-Gyproc,Armstrong,Shera or equivalent. | Sqm | 51.00 | 11.36116400% |
| 17 | Providing and fixing suspended false ceiling made out of minimum 7 mm thick PVC tile/ Boards consisting of G.I standard section framework in the pattern and design as per direction of the Engineer-in-charge. The G.I. Section frame work shall be tied to the roof and walls with the anchor fastener screws/bolts of appropriate size recommended by the manufacturer . The PVC tiles/boards shall be fixed to the frame work with the screws and the joints shall be flushed and finished with requisite jointing compounds paper tapes etc. Rates includes execution of works in different levels/offsets etc. The surface shall be finished evenly complete. Rate inclusive of materials transportation, loading/unloading labor, tools and tackles up to any lead and lift complete in all respects. | Sqm | 95.00 | 27.86275100% |



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|-------|--|-----|-------|--------------|
| 18 | Providing and fixing PVC wall tiles minimum 5 mm thick (thickness to be specified by the manufacturer), of approved make, in all colours, shades consisting of accessories required in the pattern and design as per direction of the Engineer-in-charge. The PVC wall tiles shall be tied to the roof and walls with the anchor fastener screws/bolts as required of appropriate size recommended by the manufacturer. Rate inclusive of materials transportation, loading/unloading labor, tools and tackles up to any lead and lift complete in all respects. | Sqm | 72.00 | 16.37647400% |
| Total | | | | 100.00% |

The above scope is not exhaustive and will include any other activity apart from above necessary for completing the subject work in residential and public building of township.

Note: -

1. It is also advised that the bidder shall visit the Hospital ward in Township premises of BHEL TP Jhansi and physically see the work area/areas in order to have visualization of the work content involved for the above works.
2. The quantity of items in the BOQ can vary to any extent during the execution as per the actual site requirement.



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QUALIFYING REQUIREMENTS

| Sl No | Description of Requirement |
|-------|--|
| 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 | <p>Work Experience:</p> <p>Bidder should have experience of executed similar work during last 7 years ending the month previous to the month of issuing tender enquiry either of the following: -</p> <p><u>FOR NON MSE REGISTERED BIDDERS:</u></p> <p>a. Three similar works each valuing not less than the amount equal to Rs. 1,67,069/- or</p> <p>b. Two similar works each valuing not less than the amount equal to Rs. 2,08,836/- or</p> <p>c. One similar works each valuing not less than the amount equal to Rs. 3,34,138/-</p> <p><u>FOR MSE REGISTERED BIDDERS</u> (MSE bidders have to submit valid UDYAM certificate):</p> <p>a. Three similar works each valuing not less than the amount equal to Rs. 41,767/- or</p> <p>b. Two similar works each valuing not less than the amount equal to Rs. 52,209/- or</p> <p>c. One similar works each valuing not less than the amount equal to Rs. 83,534/-</p> <p>Executed Similar Work means all type Civil construction/Maintenance /Renovation works of requisite value in any PSU / CPSU / State govt. / Central Govt./ Private sector.</p> <p>Documentary proof (Completion Certificate and WO/PO/LOI) & TDS (Traces from 16A) submission for experience in PSU / CPSU / State govt. / Central Govt./ Private sector for successful execution of the requisite value is to be submitted. In case experience is submitted for work done in BHEL, Tax Invoice/TDS certificate is not required.</p> <p>MSE bidders have to submit valid UDYAM certificate.</p> |



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| | |
|----|---|
| 7 | <p>Turnover criteria:</p> <p>Average Annual financial turnover during the last 3 years ending 31st March 2024, should be at least Rs. 1,25,302/- (FOR NON MSE BIDDERS) and Rs. 31,325/- (FOR MSE BIDDERS). (Bidder to attach audited balance sheet and Profit & Loss Account of last three financial years, ending 31st March 2024, or Certificate of CA as proof of financial T/o for respective years). If T/o details of 3 years are not available, then available years T/o shall be evaluated by dividing it by 3.</p> <p>Note:- 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.</p> |
| 8 | <p>EMD- NIL</p> |
| 9 | <p>The documents required for legal entities under whose name and style contractor has participated in the tender are as follows:</p> <p>(i) Partnership Firm: Partnership Deed & registration certificate issued by office of registrar of Firms.</p> <p>(ii) Company: Certified copy Memorandum of Association, Article of Association and Incorporation Certificate.</p> <p>(iii) Society: Registration certificate issued by Registrar of societies.</p> <p>(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 (_____)</p> |
| 10 | <p>Bidders are required to submit a self-declaration to avoid cartel formation on their letter head as per the Format enclosed in Annexure A.</p> |



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GENERAL TERMS AND CONDITIONS OF ENQUIRY (JHS 2055C R02)

UPLOADED IN SPERATE FILE -PAGE NO 01 TO 14

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



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SPECIAL TERMS AND CONDITIONS OF CONTRACT

1. **Taxes & Duties-** As per GTC for Work Contracts (JHS2055C R02) issued by “Central Contracting Cell”
2. **Payment Terms-** As per GTC for Work Contracts (JHS2055C R02) issued by “Central Contracting Cell”
3. **Bonus Clause-** As per GTC for Work Contracts (JHS2055C R02) issued by “Central Contracting Cell”
4. **PVC-** Not Applicable
5. **ORC-** Not Applicable
6. **LD/ Penalty-** The LD/Penalty shall be as per GTC for Work Contracts (JHS2055C R02) issued by “Central Contracting Cell.
7. The total price of the package is to be quoted by the bidders. The total quoted amount by the L1 bidder for the package shall be used for deriving Individual item rate by BHEL based on % (percentage) weightage specified at Price Schedule.
8. The maintenance period for the above work shall be **01 year** from the date of actual completion of work.
9. The quantity of items in the BOQ are only tentative and approximate and are liable for variation up to any extent provided the total value of the Contract does not vary by more than 30% (Thirty percent).
10. The Completion period shall be 02 months from the date of issue of work order.



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TECHNICAL TERMS AND CONDITIONS OF CONTRACT

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.
7. 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.
8. 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.
9. The contractor shall be fully and finally responsible for correctness and quality of his work to the entire satisfaction of the BHEL/Customer.
10. 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.



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11. Material reconciliation statement has to be submitted by the contractor as & when required by BHEL.
12. 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.
13. In case of any difference between agreement, wording and detailed drawings the interpretation of the BHEL shall be final and binding on the contractor.
14. The final acceptance of work in all items are subject to proper performance regardless of whether the items are paid for or not.
15. 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.
16. The contractor will be fully responsible for the preparation of bill and submission to Engineer-in-charge.
17. Water will be supplied at one point by BHEL. Water charges @ 1 % of gross bill amount shall be recovered.
18. 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).
19. 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 on 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.
20. The empty cement bags (if any) 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.



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21. 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.

22. 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.

23. Taxes & Duties - The contractor shall submit their offer inclusive of all duties, royalty, entry tax etc. except GST. If GST is applicable for the work, the contractor shall claim GST extra as per actual over the quoted price of the work. However, the contractor must make payment of GST before claiming the same from BHEL.

24. The contractor shall take necessary precautions for the safety of his workmen and provide them with all safety equipment like gloves, gum-boots etc as per requirement. BHEL shall not be liable to pay any additional amount on account of any safety equipment / PPE. The contractor will follow all safety rules required in connection with execution of such type of works. The contractor will provide the all safety equipment i.e. safety shoes, safety belt, goggle and all other equipment, which are direct, related to work execution at own his cost.

25. The contractor shall take proper care to avoid any damage to BHEL property. If any damage does take place, the contractor will be fully responsible for the same and shall make good all such damage at his own risk and cost. The decision of Engineer in charge in such case shall be final and binding on contractor.

26. The workers should be trained enough for the work. No minor worker will be allowed to work.

27. The contractor shall be wholly responsible for the behavior of his workmen with the official staff.



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28. All tools & tackles, ladder & machinery required for the work execution shall be arranged by contractor on his cost. The rate quoted by the contractor shall include all such incidental charges.

29. The contractor will be fully responsible to follow the instruction related to works on daily/ requirement basis.

30. RECOVERY FOR LAND & BUILDING RENT (PER MONTH) ISSUED TO CONTRACTOR ON DEMAND & AVAILABILITY.

| Sl.No. | Description | Recovery Rate |
|--------|---|--|
| 1 | Open land for labour stay. (For temporary arrangements.) | Rs. 5.00/ sqm |
| 2 | Store building (if available) or land for store (for temporary arrangements). | Rs. 25.00/ sqm –plinth area |
| 3. | Resident building –only X type or Type 2. | As per applicable BHEL RULES and guidelines. |

31. ACCOUNTING

a. Proper method of accounting (if any) 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 (if any) 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.

32. 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.



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FREE ISSUE MATERIAL TO THE CONTRACTOR

| S No. | Particulars | Rs. | Quantity |
|-------|-------------|--------------|--------------------|
| 1 | PPC Cement | Free of Cost | As per requirement |

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



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BLANK PRICE BID (JS 472)

| Sl. No. | Description of work | Unit | Qty. | % Allocation | Rate (Rs.) | Amount (Rs.) |
|---------|--|------|-------|--------------|------------|--------------|
| 1 | P and L in position Cement concrete -1:2:4 (1 Cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) excluding the cost of entering and shuttering all work up to plinth level. | cum | 1.00 | 0.49927400% | XX.XX | XX.XX |
| 2 | Brick work with FPS bricks of (II nd class kanpur brick) in Super structure 1:6 (1 cement : 6 fine sand) upto floor five level. | cum | 2.00 | 1.46543600% | XX.XX | XX.XX |
| 3 | Providing Half Brick masonry in super structure upto floor five level . 1:4 (1 cement :4 coarse sand) | sqm | 3.00 | 0.26169300% | XX.XX | XX.XX |
| 4 | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete | sqm | 34.00 | 3.33437000% | XX.XX | XX.XX |



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| | | | | | | |
|---|---|-----|--------|--------------|-------|-------|
| 5 | Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigments etc., complete | sqm | 15.00 | 1.42461000% | XX.XX | XX.XX |
| 6 | Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622 , of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). Size of Tile 600x600 mm | sqm | 109.00 | 15.55590700% | XX.XX | XX.XX |
| 7 | 12 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand) | sqm | 10.00 | 0.20908700% | XX.XX | XX.XX |
| 8 | 15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 fine sand) | sqm | 10.00 | 0.23997300% | XX.XX | XX.XX |



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| | | | | | | |
|----|---|-----|-------|-------------|-------|-------|
| 9 | Demolishing cement concrete including disposal of material within 50 meter lead (1:3:6) | cum | 2.00 | 0.30770500% | XX.XX | XX.XX |
| 10 | Demolishing brick work in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 meter lead. | cum | 3.00 | 0.39012600% | XX.XX | XX.XX |
| 11 | Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of | sqm | 36.00 | 2.06047900% | XX.XX | XX.XX |



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| | | | | | | |
|----|---|------|----------|-------------|-------|-------|
| | membrane shall be got done through the authorised applicator of the manufacturer of membrane....3 mm thick | | | | | |
| 12 | Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/ system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge. | sqm | 114.00 | 5.10112100% | XX.XX | XX.XX |
| 13 | All items of DSR 2016 not covered above | L.S. | 30000.00 | 4.66873200% | XX.XX | XX.XX |
| 14 | Providing and fixing glazing in fixed aluminium structure with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge :- With French embossed (etched) float glass panes of 12 mm thickness.Brand- Modiguard/ | Sqm | 5.00 | 4.86449500% | XX.XX | XX.XX |



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| | SAINTGOBAIN / TRIVENI or equivalent | | | | | |
|----|---|----|-------|-------------|-------|-------|
| 15 | Fixed frame work for aesthetic purpose with built up standard tubular sections/appropriate Z sections and other sections of Polyester powder coated aluminium with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per required pattern & shape and the directions of Engineer-in-charge. | Kg | 38.00 | 4.01660300% | XX.XX | XX.XX |



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|----|--|-----|-------|--------------|-------|-------|
| 16 | Providing and fixing suspended false ceiling made out of 10 mm to 12.50 mm thick Gypsum Plaster Boards consisting of G.I standard section framework in the pattern and design as per direction of the Engineer-in-charge. The G.I. Section framework shall be tied to the roof and walls with the anchor fastener screws/bolts of appropriate size recommended by the manufacturer (max. 450 mm C/C) . The boards shall be fixed to the frame work with the screws and the joints shall be flushed and finished with requisite jointing compounds paper tapes etc. Rates includes execution of works in different levels/offsets etc. The surface shall be finished evenly by applying putty,sand papering,applying 2 coat primer evenly complete. Rate inclusive of materials transportation, loading/unloading labor, tools and tackles up to any lead and lift complete in all respects. Brand- Gyproc,Armstrong,Shera or equivalent. | Sqm | 51.00 | 11.36116400% | XX.XX | XX.XX |
|----|--|-----|-------|--------------|-------|-------|



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| | | | | | | |
|----|--|-----|-------|--------------|-------|-------|
| 17 | Providing and fixing suspended false ceiling made out of minimum 7 mm thick PVC tile/ Boards consisting of G.I standard section framework in the pattern and design as per direction of the Engineer-in-charge. The G.I. Section frame work shall be tied to the roof and walls with the anchor fastener screws/bolts of appropriate size recommended by the manufacturer . The PVC tiles/boards shall be fixed to the frame work with the screws and the joints shall be flushed and finished with requisite jointing compounds paper tapes etc. Rates includes execution of works in different levels/offsets etc. The surface shall be finished evenly complete. Rate inclusive of materials transportation, loading/unloading labor, tools and tackles up to any lead and lift complete in all respects. | Sqm | 95.00 | 27.86275100% | XX.XX | XX.XX |
|----|--|-----|-------|--------------|-------|-------|



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|-------|--|-----|-------|---------------|-------|-------|
| 18 | Providing and fixing PVC wall tiles minimum 5 mm thick (thickness to be specified by the manufacturer), of approved make, in all colours, shades consisting of accessories required in the pattern and design as per direction of the Engineer-in-charge. The PVC wall tiles shall be tied to the roof and walls with the anchor fastener screws/bolts as required of appropriate size recommended by the manufacturer. Rate inclusive of materials transportation, loading/unloading labor, tools and tackles up to any lead and lift complete in all respects. | Sqm | 72.00 | 16.37647400% | XX.XX | XX.XX |
| Total | | | | 100.00000000% | | |

GST EXTRA AS APPLICABLE

NOTE – Contractor must not quote Rates/Amounts in this Blank Price Bid. This document must be submitted along with Techno-commercial bid.

Explanatory Note for calculating Quoted Rates of individual items

The total price of the package is to be quoted by the bidders. The total quoted amount by the L1 bidder for the package shall be used for deriving Individual item rate by BHEL based on % (percentage) weightage specified at Price Schedule.



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Annexure A

DECLARATION BY BIDDER (on letter pad)

TENDER ENQUIRY NO. :-----

DATE:-

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)

We hereby accepted above (signature & seal of bidder)

Seal & Signature of BHEL contracting authority



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Annexures (I-XII)

UPLOADED IN SPERATE FILE

(To be signed by contractor and submitted along with



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SOP For Implementation of Risk and Cost

UPLOADED IN SEPARATE FILE

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



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

UPLOADED IN SPERATE FILE

Regarding conflict of interest of bidders-

*“A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. **The bidder found to have a conflict of interest shall be disqualified.** A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:*

- a) they have controlling partner (s) in common; **or***
- b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; **or***
- c) they have the same legal representative/agent for purposes of this bid; **or***
- d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; **or***
- e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid; **or***

- f) *In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following:*
1. *The principal manufacturer directly or through one Indian agent on his behalf; and*
 2. *Indian/foreign agent on behalf of only one principal;*
- or**
- g) *A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid; **or***
- h) *In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business."*