

BHARAT HEAVY ELECTRICALS LIMITED
(A Government of India Undertaking)
P.O. BHEL Jhansi 284120

FABRICATION MANUFACTURING DEPARTMENT

Notice Inviting Tender (NIT)
For

Works Contract for In-house Fabrication & Testing of Power Transformer Tanks and its accessories at FBM, BHEL, Jhansi

Tender Enquiry No.

FBM/TW/10/08

Tender due date: 12/04/2022 13:15 hrs.

Tender Opening date: 12/04/2022 14:00 hrs.

We hereby accepted above (signature & seal of bidder)

Seal & Signature of BHEL contracting authority



BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India undertaking)

FABRICATION DIVISION (FBM), JHANSI - 284120

TENDER ENQUIRY NO: FBM/TW/10/08

DATE: 22.03.22

DETAILS OF TENDER DOCUMENT

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|--|--|--|---|---|
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|---|---|---|---|---|---|---|---|---|--|--|--|---|---|

Fabrication of Power Transformer Tanks and its accessories

1. BHEL Jhansi is in the process of finalizing Works Contract for "In-house Fabrication & Testing of Power Transformer Tanks and its accessories at FBM, BHEL, Jhansi"
2. The tender document has been detailed as follows:

- a) Notice Inviting Tender (Annexure A)
- b) Work Specifications (Annexure B)
- c) Qualifying Requirements (Annexure C)
- d) Performa of Submitting technical bid (Annexure D).
- e) Price Bid format (Annexure E)
- f) Blank Price bid Format (Annexure F)
- g) General Terms & conditions
- h) Annexures I to XI

The duly filled in Technical and Price / Rate bids (Annexure A, B, C, D, E and price bid (F) separately) along with General Terms and Conditions and all other attachments with the signature of the tenderer on all the pages and complete in all respects super scribed as "Quotation for Tender No FBM/TW/10/08 dated **22.03.2022**" should reach us in a sealed cover on or before **12 / 04 / 2022** (13.15 hours) through Registered / Speed post or the same may be dropped in the tender box available at the following address:

Tender Box
CISF Control Room/Office
Administrative Building
Bharat Heavy Electricals Limited
Jhansi-284 120

- Note:** (i) *Incomplete offers are liable for rejection.*
(ii) *Technical bid and price bid should be submitted in separate sealed envelopes. In case the bids are found in one single envelope then the "bids" are liable to be rejected.*

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FABRICATION DIVISION (FBM), JHANSI - 284120

TENDER ENQUIRY NO: FBM/TW/10/08

DATE: 22.03.22

TENDER DOCUMENT FOR

WORKS CONTRACT FOR IN-HOUSE FABRICATION & TESTING OF POWER TRANSFORMER TANKS AND ITS ACCESSORIES AT FBM, BHEL, JHANSI

The tender document has been detailed as follows:

| SN | Description | Annexure No. | Page No. | No.of Pages |
|-----|---|---------------|----------|-------------|
| 01. | Notice Inviting Tender | A | 1-5 | 14 |
| 02. | Work Specification, Measurement of work and Payment | B | 6-10 | |
| 03. | Qualifying Requirements | C | 11-12 | |
| 04. | Performa for submitting Technical Bid | D | 13-14 | |
| 05. | General Terms & conditions of enquiry (JHS 2055C R02) | Copy Enclosed | 1-14 | 14 |
| 06. | Price Bid Sheet | E | 1 | 1 |
| 07. | Blank Price Bid | F | 1 | 1 |
| 08. | Clubbed Annexures (I to XII) Forms | I to XII | 1-17 | 17 |
| | TOTAL | | | 47 |

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FABRICATION DIVISION (FBM), JHANSI - 284120

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Annexure – 'A'

NOTICE INVITING TENDER

| | | |
|-------|---|---|
| 1 | Scope of Work | Works Contract for "In-house Fabrication & Testing of Power Transformer Tanks and its Accessories at FBM, BHEL, Jhansi" |
| 2 | Tender evaluation criteria | As per qualifying requirements (see annexure C attached) |
| 3 | Validity of Contract | 12 Months from the date of award of work order |
| 4 | Date and Time of Receipt of Tenders | Up to 13:15 hrs. on 12.04.22 |
| 5 | Date and Time of Opening of Technical bids | 14:00 hrs. on 12.04.22 |
| 6 | Address for submitting the Tender | Tender Box, CISF Control Room/Office, Administrative Building, Bharat Heavy Electricals Limited, Jhansi-284120 |
| 7 | Earnest Money Deposit (EMD) | Rs. 2,85,096/- (Rupees Two Lakh Eighty Five Thousand Ninety Six Only) |
| 7(a) | | The EMD may be accepted only in the following forms: (i) Electronic Fund Transfer credited in BHEL account (before tender opening) <i>BHEL account details: Bank Name: - SBI; A/c No. :- 10670828866 ; IFSC code:- SBIN0003807, A/c Holder Name:- BHARAT HEAVY ELECTRICALS LIMITED</i> (ii) Card swapping through POS machine at Cash section of BHEL Jhansi.) |
| 8(a) | | In case of successful bidder, EMD will be converted and adjusted against the security deposit. |
| 8(b) | EMD will be forfeited in following cases | |
| (i) | | After opening the tender, the bidder revokes his tender within the validity period or increases his quoted rate. |
| (ii) | | The bidder does not commence the work within the stipulated period as per LOI/ Contract. In case the LOI/contract is silent in this regard, then within 15 days after award of contract. |
| (iii) | | For MSME bidders submission of EMD and tender cost will be applicable as per MSME act. |

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| | | |
|------|--|---|
| 8(c) | EMD given by all unsuccessful tenderers shall be refunded normally within 15 days of acceptance of award of work by successful tenderer. | |
| 8(d) | EMD shall not carry any interest. | |
| 9 | Validity of Offer | 120 days from the date of opening of Technical Bid (Part-I) |
| 10 | Security Deposit (SD) | As per General terms & conditions |
| 11 | GST | 18 % of quoted rate. |
| 12 | PF & ESI | Contractor has to submit PF and ESI registration certificate after issue of LOI and before award of Work Order to him. |
| 13 | 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 as initial bids of bidders in 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. |
| 14 | Address for issue of Tender | AGM(FBM), Bharat Heavy Electricals Limited Jhansi, PIN-284120 |

Note: (i) 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.

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Annexure B

WORK SPECIFICATION

1. SCOPE OF WORK OF THE CONTRACTOR SHALL BE AS FOLLOWING:

- a. The contractor shall be responsible for "Fabrication and testing of Power transformer tank and its accessories at FBM, BHEL Jhansi". If bidder desires sample/ typical drawing of Power transformer tank can be provided for reference only, however the contractor shall execute the job as per the specific drawing provided by the Fabrication Deptt., BHEL, Jhansi.
- b. The scope of work also includes material preparation (cutting, bending, rolling, drilling, tapping, dressing etc. which includes steel blanks for machining), assembly (fitting, welding, testing, shot blasting, NDT testing), primer painting as per Assembly Drawing provided by BHEL and getting the jobs cleared by QC (BHEL) / Customer and handing over to user department as per BHEL Quality Plan.
- c. The work shall conform to dimensions and tolerances given in various drawings and documents that will be provided during manufacturing. If any portion of works is found to be defective in workmanship and not conforming to drawings / documents, the contractor shall dismantle and re-do the work duly replacing the defective materials at their own cost, failing which recoveries, as determined by BHEL, shall be deducted from contractor's bills.
- d. Even after completion of job at FBM & handing over to Trfr assly shop, vendors has to do the rectification required if any found by the user department at later stage. In case of refusal, the work will be carried out at their risk & cost as per BHEL guidelines.
- e. The work covered under this specification is of highly sophisticated nature, requiring the best quality workmanship and supervision. The contractor should ensure proper planning for successful and timely completion of the work to meet the overall manufacturing schedule. The contractor must deploy adequate quantity of tools & plants, modern / latest fabrication aids etc. which are not available with BHEL to meet the plan target of FBM. He must also deploy adequate trained, qualified and experienced supervisory staff and skilled personnel.
- f. Contractor may be required to work in 3 –shifts. Contractor shall appoint qualified supervisors for A/B/C Shifts for coordination with various departments of BHEL, Jhansi. Contractor has to deploy qualified welders at work, BHEL may get tested the welders. Contractor has to organize adequate work force of qualified and experienced welders and fitters to take up parallel working for fabrication. In case machines (like: CNC flame cutting machine, drilling machine, shot blast etc.) are occupied in A & B shifts by BHEL, contractor has to do his work on that machines in C shifts.

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g. Machines/equipment such as welding machines, hand grinding machines and painting gun shall be arranged by contractor. Jigs & Fixtures required as directed by BHEL/Engineer for completion of job to be made available by contractor. In stages, machining (only milling) operation, if needed as per drawing, shall be in BHEL's scope. For machining of items, contractor has to provide materials for machining after preparation of the same to BHEL at least 15 days ahead from its requirement duly cleared by FBM/QC. Drilling and tapping are in the scope of contractor.

h. Electricity, compressed air and cutting gases shall be provided by BHEL free of cost. EOT crane shall be provided by BHEL free of cost; however, operation of the same shall be the responsibility of contractor. Trained Crane operators to be deployed by contractor.

All other consumables like electrodes, grinding wheels piano wires, electric wires for grinding machines/welding machines, soap solution gun, welding nozzles/tips available with BHEL shall also be provided by BHEL free of cost. In contingency (if not available with BHEL), in order to meet the job requirement and any additional resources if required shall be arranged by the contractor at their own cost. Non availability of these consumables will not be counted for delay attributable to BHEL.

i. Inspection at various stages shall be done by BHEL-QC/Customer and proper record shall be maintained by contractor. Inspection/clearance by BHEL-QC/Customer shall be the responsibility of the contractor. In addition, the Contractor shall attend to any rework/modifications, as and when suggested by BHEL-QC / BHEL Engg.

j. Maintaining proper documentation of all the fabrication activities undertaken by the Contractor as per the proforma mutually agreed with BHEL, Submission of daily/monthly progress reports and any such document as and when desired by BHEL/owner.

k. The Contractor shall be responsible for complying with all the applicable statutory acts & laws.

l. BHEL, Jhansi is certified for ISO 9001. Quality of work to customer's satisfaction and fulfilment of system requirements are the essence of ISO 9001 certification. BHEL, Jhansi has HSE certification (ISO 14001 & OHSAS 18001) and therefore Contractor also shall organize/ plan/ perform all their activities to meet with the applicable requirements of these standards.

Safety penalties as listed below from Sl. No. 1 to 15 will be liable to penalize based on letter received from safety department. For Sl. No. 16, 17, 18 & 19 FBM/Engineer and for Sl. No.20 & 21 QC/FBM may give letter regarding NCR/penalty.

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NON COMPLIANCE:-

NONCONFORMITY OF QUALITY, SAFETY RULES AND SAFETY APPLIANCES WILL BE VIEWED SERIOUSLY AND BHEL HAS RIGHT TO IMPOSE FINES ON THE CONTRACTOR AS UNDER for every instance of violation noticed as detailed below:

| S. No. | Violation of Safety/Quality Norms | Fine (in Rs)(taxes extra, if applicable) |
|--------|---|--|
| 01 | Not Wearing Safety Helmet | 50/- * |
| 02 | Not wearing Safety Belt or not anchoring life line | 100/-* |
| 03 | Not wearing safety shoe | 100/-* |
| 04 | Not keeping gas cylinders vertically | 100/- |
| 05 | Not using flash back arrestors | 50/- |
| 06 | Not wearing gloves | 50/- * |
| 07 | Grinding Without Goggles | 50/- * |
| 08 | Electrical Plugs Not used for hand Machine | 100/- |
| 09 | Not Slings properly | 200/- |
| 10 | Using Damaged Sling | 200/- |
| 11 | Lifting Cylinders Without Cage | 500/- |
| 12 | Not Using Proper Welding Cable With Lot of Joints And Not Insulated Properly. | 200/- |
| 13 | Not Removing Small Scrap From Booths | 200/- |
| 14 | Gas Cutting Without Taking Proper Precaution or Not Using Sheet Below Gas Cutting | 200/- |
| 15 | Improper Earthing Of Electrical T&P | 500/- |
| 16 | Not Cleaning Gang Way Properly | 500/- |

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| | | |
|----|--|--|
| 17 | Not removing Scrap/Off-cuts accumulated at machines like CNC flame cutting machine, plate cutting machine and drilling machine after its operation | 500/- |
| 18 | Misusing of steel plates and/or throwing of off-cuts materials in scrap bin at your work place or at cutting (CNC) machines. | 1000/- |
| 19 | Misuse/Unauthorized use of Machines like- CNC Flame cutting machine, Drilling, Bending, shearing machines, EOT cranes, etc. | 1500/- |
| 20 | NCRs (Non Conformity Report) noticed by FBM/QC | Up to 3nos. NCR = 0.00(NIL) After 3 NCRs = 100/- per NCR. |
| 21 | If any NCR (Defects) observed by Customer/User Department after YFR cleared by QC/FBM and not attending the same within 24 Hrs. | 500 per NCR |

Legend:-*: per head,

Any other non-conformity noticed not listed above will also be fined as deemed fit by BHEL. The decision of BHEL engineer is final on the above. The amount will be deducted from running bills of the contractor.

m. Contractor shall give undertaking for providing skilled & Un-skilled manpower as per requirement of BHEL during execution of contract.

2. MEASUREMENT OF WORK & PAYMENT:

- i. Work shall be measured in terms of Kg. Payment will be made to contractor on 'Rs/Kg' basis towards completion of "Fabrication of Power transformer tank and its accessories at FBM and getting the jobs cleared by QC (BHEL)/customer as per BHEL Quality Plan".
- ii. The contractor shall submit his monthly RA (running account) bills with all the details required by BHEL on specified date monthly (by 1st week of the month) covering completion of work in all respects and works completed for the bill period.
- iii. BHEL shall make the payment on completion of work and clearance from BHEL (QC) and Customer as per BHEL Quality Plan.
- iv. All the payments will be subject to deduction of tax at source applicable as per law.

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3. Estimated Quantum of Works: 1200 MT of Power transformer tank and accessories

Note: 1. Power transformer tank will be consisted of sub- assemblies like: Top tank, Bottom tank, Tank cover, Turrets, Pipework etc.

2. Accessories will be consisted of Sub-assemblies like: A-frame, Header, Conservator, pipe support, cable box etc.

Note: The quantity indicated is a projection based on the present requirements. The quantity may increase / decrease based on BHEL's order book position and production requirements. Loading (letter order) will be given accordingly.

4. Splitting of Contract: Total contract quantity will be spilt into two bidders. The L1 price will be offered to L2 bidder, if L2 do not accept then will be offered to L3 and so on based on no. of qualified bidders and their acceptance. Splitting will be as L1: L2 :: 70: 30 respectively. If L1 rate not accepted by other bidders, then total quantity will be awarded to L1 bidder.

5. Delivery Period:

- i. Commencement period – 15 days from the date of LOI.
- ii. Delivery for each set of Power Transformer Tank including Outside fitting and accessories shall be 02 (Two) Months from date of loading.
- iii. Delivery for only Accessories shall be 01 (One) Months from date of loading.

6. Contractor/ Bidder should have a minimum capacity of manufacturing 100 MT of Power Transformer tank & accessories per month.

7. LD Clause: LD/ Penalty shall be applicable as per clause X(4) of General terms and conditions (JHS 2055C R01).

8. All required input materials like steel plates for fabrication of Centre Underframe will be provided to contractors within 7 working days from the contractor's requisition date and Machining items/frames within 15 days from the date on which contractor handovers the same.

9. Drawing and Documents:

(i) The detailed drawings, specifications available with BHEL engineers will be made available to the contractor during execution/fabrication of work in shop. The contractor will also ensure availability of all drawings / documents at work place.

(ii) Any error or ambiguity be discovered in the specification or information the contractor shall forthwith bring the same to the notice of BHEL before commencement of work. BHEL's interpretation in such cases shall be final and binding on the contractor.

(iii) The data furnished in various annexure enclosed with this tender specification are only approximate and for guidance. However, the change in the design and in the quantity may occur as is usual in any such large scale of work. The contractors quoted rates shall be inclusive of the above factors.

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Annexure – 'C'

Qualifying Requirement

| SI No | Description of Qualifying Requirement |
|-------|---|
| 1. | <p>Average Annual financial turnover during the last 3 years ending 31st March 2021, should be at least Rs. 42.76 Lakhs approx..</p> <p>The following documents to be submitted</p> <ul style="list-style-type: none">i) A certificate from CA dully vetting the turnover. "OR"ii) Audited balance sheet & Profit and loss statement. <p>Note- If T/o details of 3 years are not available then available years T/o shall be evaluated by dividing it by 3.</p> |
| 2. | <p>Work Experience: (Bidder should fulfill any one of the following):</p> <p>2.1) Experience of having successfully completed/ supplied steel Fabricated works/items during last 7 years of the month before the one in which applications are invited as under:-</p> <ul style="list-style-type: none">a. Three similar completed works each valuing not less than the amount equal to Rs 57.02 Lakh. ORb. Two similar completed works each valuing not less than the amount equal to Rs 71.27 Lakh. ORc. One similar completed works each valuing not less than the amount equal to Rs 114.04 Lakh. <p style="text-align: center;">OR</p> <p>2.2) Experience of having successfully Fabricated/supplied Power transformer steel tanks during last 7 years of the month before the one in which applications are invited as under:-</p> <ul style="list-style-type: none">a. Three similar completed works each in number not less than 11 ORb. Two similar completed works each in number not less than 14 ORc. One similar completed works each in number not less than 22. <p>Documentary proof required:</p> <ul style="list-style-type: none">1. Completion Certificate/ proof of completion,2. Work Order /Purchase Order,3. In addition to above TDS Certificate in case of experience is of Private Sector. |
| 3. | Contractor Should have PAN number. |

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| SI No | Description of Qualifying Requirement |
|-------|--|
| 4. | Contractor Should have GST (PAN based) |
| 5. | Contractor shall provide 03 no. welder qualification certificates as per ASME section IX or AWS D 1.1 qualified under the name of his/her firm. |
| 6. | Bidders are required to submit a self-declaration on their letter head as per the Format enclosed in Annexure V . |
| 7. | <p>The documents required for legal entities under whose name and style Contractor has participated in the tender are as follows:</p> <p>8.1) Partnership Firm: Partnership Deed registered at the office of Registrar of Firms.</p> <p>8.2) Company: Certified copy Memorandum of Association, Article of Association and Incorporation Certificate.</p> <p>8.3) Society: Registration certificate issued by Registrar of societies.</p> <p>8.4) Sole Proprietor-ship Firm: Undertaking on oath (On Company's letter head) that Proprietor is solely responsible for all rights and liabilities while working under the name and style of Sole Proprietorship firm namely (_).</p> <p>8.5) Limited liability partnership agreement registered under company's act.</p> |

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ANNEXURE D

PROFORMA FOR SUBMITTING TECHNICAL BID

| | | |
|----|--|---|
| 1 | Name of the firm (Essential) | |
| 2 | Address and Contact Numbers (Essential) | |
| 3 | Name of the Proprietor (Essential) | |
| 4 | Registration Number of the Firm (Essential) | |
| | Copy of the Certificate | Enclosed / Not Enclosed |
| 5 | PAN/TAN Number (Essential) | |
| 6 | GST Number(PAN Based) (Essential) | |
| 7 | Experience Certificate (Along with balance sheet & profit and loss account/ turnover certificate issued by CA) (Essential) | Enclosed / Not Enclosed |
| 8 | Earnest Money Deposit (Essential) | Rs. 2,85,096/- |
| | Receipt No. & Date | |
| | Electronic fund Transfer no. (Bank) | |
| 9 | Validity of offer | 120 days from the date opening of technical bid |
| 10 | Blank Price bid 'JS-472' (Essential) | Enclosed / Not Enclosed |
| 11 | Valid E-Mail Id (Essential) | |

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| | | |
|----|---|----------|
| 12 | Participation in RA | YES / NO |
| 13 | Proprietorship/ partnership deed | |
| 14 | Acceptance of General Terms & Conditions | YES / NO |
| 15 | Submission of Security Deposit after issue of LOI and before award of Work Order to contractor. | YES / NO |

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

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