

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

**Notice Inviting Tender (NIT)  
For**

**Works contract for Fabrication of ESP Transformer tanks at FBM,  
BHEL Jhansi**

**Tender Enquiry No.**

**FBM/TW/10/01**

**Tender due date: 07.09.2021 13:15 hrs**

**Tender Opening date: 07.09.2021 14:00 hrs**

We hereby accepted above (signature & seal of bidder)



**BHARAT HEAVY ELECTRICALS LIMITED**

**(A Govt. of India undertaking)**

**FABRICATION DIVISION (FBM), JHANSI - 284120**

**TENDER ENQUIRY NO: FBM/TW/10/01**

**DATE: 16.08.2021**

**DETAILS OF TENDER DOCUMENT**

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Fabrication & testing of ESP Transformer tanks at FBM, BHEL Jhansi

1. BHEL JHANSI is in the process of finalizing the Works Contract for "Fabrication & testing of ESP 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) Documents required (Annexure C1).
  - e) General Terms & conditions
  - f) Forms & Formats (Annexure I, II, III & IV)
  - g) Self-declaration (Annexure V)
  - h) Contract Agreement (Annexure VI)
  - i) Indemnity Bond (Annexure VII)
  - j) Checklists of documents for enquiry (Annexure VIII)
  - k) Performa of Bank guarantee (Annexure IX)
  - l) Price Bid (Annexure JS 146)
  - m) Blank Price bid Format JS 472 attached

The duly filled in Technical and Price / Rate bids (Annexure C and JS -146, 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/10/01 dated **16.08.2021**" should reach us in a sealed cover on or before **07.09.2021** (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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**TENDER ENQUIRY NO: FBM/TW/10/01**

**DATE: 16.08.2021**

**TENDER DOCUMENT FOR**

**WORKS CONTRACT FOR FABRICATION & TESTING OF ESP  
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	
02.	Work Specification, Measurement of work and Payment	B	6-11	
03.	Qualifying Requirements	C	12	
04	Documents Required	C1	13	
05	Performa for submitting Technical Bid	D	14-15	
06	General Terms & conditions of enquiry (JHS 2055C R01)	Copy Enclosed	16-29	14
07	Annexure (I,II,III & IV) Forms	I,II,III & IV	30-33	4
08	Self-declaration on company's letter head	V	34	1
09	Contract Agreement	VI	35-37	3
10	Indemnity bond	VII	38	1
11	Checklist of documents	VIII	39	1
12	Performa of bank guarantee ( <b>in lieu of Security Deposit</b> )	IX	40-43	4
13	Statement of Paid Leave	X	44	1
14	Certificate by CA for MSME	XI	45	1
	<b>TOTAL</b>			45

**TENDER ENQUIRY NO: FBM/TW/10/01**

**DATE: 16.08.2021**

**Annexure – ‘A’**

**NOTICE INVITING TENDER**

<b>1</b>	<b>Scope of Work</b>	Works Contract for “Fabrication & Testing of ESP Transformer Tanks and its Accessories at FBM, BHEL Jhansi”.
<b>2</b>	<b>Tender evaluation criteria</b>	As per qualifying requirements (see annexure C attached)
<b>3</b>	<b>Validity of Contract</b>	24 Months from the date of award of work order
<b>4</b>	<b>Date and Time of Receipt of Tenders</b>	<b>Up to 13:15 hrs. on 07.09.2021</b>
<b>5</b>	<b>Date and Time of Opening of Technical bids</b>	<b>14:00 hrs. on 07.09.2021</b>
<b>6</b>	<b>Address for submitting the Tender</b>	Tender Box, Security Control Room/Office, Administrative Building, Bharat Heavy Electricals Limited, Jhansi-284120
<b>7</b>	<b>Earnest Money Deposit (EMD)</b>	<b>Rs. 84,000/- (Rupees Eighty Four Thousand Only)</b>
<b>7(a)</b>	<p>The EMD may be accepted only in the following forms:</p> <p>(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.)</p>	
<b>8(a)</b>	<p>In case of successful bidder, EMD will be converted and adjusted against the security deposit.</p>	
<b>8(b)</b>	<p><b>EMD will be forfeited in following cases</b></p>	
<b>(i)</b>	<p>After opening the tender, the bidder revokes his tender within the validity period or increases his quoted rate.</p>	
<b>(ii)</b>	<p>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.</p>	
<b>(iii)</b>	<p><b>For MSME bidders submission of EMD and tender cost will be applicable as per MSME act.</b></p>	
<b>8(c)</b>	<p>EMD given by all unsuccessful tenderers shall be refunded normally within 15 days of acceptance of award of work by successful tenderer.</p>	



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**TENDER ENQUIRY NO: FBM/TW/10/01**

**DATE: 16.08.2021**

<b>8(d)</b>	EMD shall not carry any interest.	
<b>9</b>	<b>Validity of Offer</b>	120 days from the date of opening of Technical Bid (Part-I)
<b>10</b>	<b>Security Deposit (SD)</b>	As per General terms & conditions
<b>11</b>	<b>GST</b>	18 % of quoted rate.
<b>12</b>	<b>Address for issue of Tender</b>	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](http://www.bhel.com)" & [www.bhel.in](http://www.bhel.in).



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**TENDER ENQUIRY NO: FBM/TW/10/01**

**DATE: 16.08.2021**

**Annexure B**

**WORK SPECIFICATION**

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

- a.** The contractor shall be responsible for “In-house Fabrication & Testing of ESP Transformer Tanks and its Accessories in BHEL Jhansi”. If bidder desires a representative/ typical drawing no. 24671550166 of ESP 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 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 effected from contractor's bills.
- c.** The scope of work involves 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 and getting the jobs cleared by QC (BHEL) / Customer as per BHEL Quality Plan.
- d.** The work covered under this specification is of highly sophisticated nature, requiring the best quality workmanship and supervision. The contractor should ensure proper planning and 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.
- e.** 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 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.
- f.** 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 operation 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



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**FABRICATION DIVISION (FBM), JHANSI - 284120**

**TENDER ENQUIRY NO: FBM/TW/10/01**

**DATE: 16.08.2021**

requirement duly cleared by FBM/QC. Items which only require drilling and/or tapping are in the scope of contractor.

- g.** 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.

- h.** 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.
- i.** 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.
- j.** The Contractor shall be responsible for complying with all the applicable statutory acts & laws.
- k.** 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 organise/ 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, FBM/Engineer and for Sl. No.19, 20 QC/FBM may give letter regarding NCR/penalty.

### **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:****

**TENDER ENQUIRY NO: FBM/TW/10/01**

**DATE: 16.08.2021**

<b>S. No.</b>	<b>Violation of Safety/Quality Norms</b>	<b>Fine (in Rs)(taxes extra, if applicable)</b>
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 Slinging 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/-
17	Not removing Scrap/Off-cuts accumulated at machines like CNC flame cutting machine,	500/-

**TENDER ENQUIRY NO: FBM/TW/10/01**

**DATE: 16.08.2021**

	plate cutting machine and drilling machine after its operation	
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.

- I. 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 Kilogram and payment made on as per weight given in respective drawing(s). Payment will be made to contractor on 'Rs/kg' basis towards completion of "Fabrication of ESP transformer tank & its accessories 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 every month (by 1st week of the month) covering progress of work in all respects and works completed for the previous calendar month.
- 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.

**TENDER ENQUIRY NO: FBM/TW/10/01**

**DATE: 16.08.2021**

**3. Attendance record:**

Attendance sheet of the workers deployed by contractor will be provided by BHEL every month to the contractors to pay their wage payment, PF, ESI, etc. accordingly. Contractor have to pay wages to their workers as per QR based attendance system.

**4. Estimated Quantum of Works: 300 MT (approx. 600 Sets) of ESP Transformer tanks with its Accessories.**

**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.

**(Set implies ESP tank and its conservator, hood assembly and all other associated accessories).**

**5. 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.**

**6. Delivery Period: Delivery period shall be as follows:**

- i. Commencement Period: Contractor has to mobilize their manpower and required machines and to start the work within 15 days from the date of issue of LOI.
- ii. Delivery of first 20 set of ESP tank shall be within 60 days from date of loading.
- iii. Thereafter, 20 set of ESP tank per month or as per loading.

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

**8. Loading: After award of work order with a validity for 24 months, Loading/ work will be given to contractors vide letter order by FBM along with the required Drawings/Documents from time to time within the contract period. Loading quantity of ESP transformer & its accessories may vary depending upon BHEL's requirements.**

**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.



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**DATE: 16.08.2021**

(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.

- 10.** All required steel plates will be provided to contractors within 7 days from the contractor's requisition date.
- 11.** Machining items will be provided within 15 days after the receipt of not-machined material for machining from the contractor by FBM.
- 12.** **Reverse Auction:** BHEL Shall be resorting to reverse auction (RA) (Guidelines as available on [www.bhel.com](http://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 alongwith applicable loading, if any, shall be considered for ranking.

**TENDER ENQUIRY NO: FBM/TW/10/01**

**DATE: 16.08.2021**

Annexure – ‘C’

## **Qualifying Requirement**

SI No	Description of Qualifying Requirement
1.	<p><b>Average Annual financial turnover</b> during the last 3 years ending 31<sup>st</sup> March 2021, should be at least <b>Rs. 12.6 Lakhs</b> approx. (Please attached <i>Income tax return along with balance sheet and along with Profit &amp; Loss Account of last three financial year, ending 31<sup>st</sup> March 2021, or Certificate of CA</i>).</p> <p>Note-Provisional /Actual Turnover for financial year 2020-21 duly certified by CA shall also be acceptable for evaluation purpose. <i>If T/o details of 3 years are not available then available years T/o shall be evaluated by dividing it by 3.</i></p>
2.	<p><b>2.1: Work Experience:</b> ( Bidder should fulfill any one of the following):</p> <p>Experience of having successfully completed <b>similar works*</b> (defined below) during last 7 years ending on the last date of the month before the one in which applications are invited should be either of the following.: -</p> <ul style="list-style-type: none"> <li>a. Three similar completed works each valuing not less than the amount equal to <b>Rs 16.8 Lakh. OR</b></li> <li>b. Two similar completed works each valuing not less than the amount equal to <b>Rs 21.0 Lakh. OR</b></li> <li>c. One similar completed works each valuing not less than the amount equal to <b>Rs 33.6 Lakh.</b></li> </ul> <p><b>*Similar Work</b> means fabrication work of any type of transformers (like: Power, ACEMU, ESP and Instrument transformers) or/and locomotives items like Bogie frame, Underframe, shells of Diesel or Electric locomotives.</p> <p>Documentary proof (Completion Certificate/ proof of completion and Work Order /Purchase Order / LOI copy) for the experience performance report issued by Customer for successful execution of the contract to be submitted. In case of experience in Private Sector, in addition to above, relevant TDS Certificate must be attached as evidence.</p> <p><b>2.2 :</b> Contractor shall give an undertaking that he has minimum 03 no. qualified welder as per ASME section IX or AWS D 1.1. The qualification certificates of the welders are to be enclosed with the tender. The contractor is required to get welder qualification/ approval from customer/agency employed by customer if required by customer during execution of the contract.</p>



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**DATE: 16.08.2021**

SI No	Description of Qualifying Requirement
3.	Contractor Should have ESI Code number.
4.	Contractor Should have PAN number.
5.	Contractor Should have GST (PAN based)
6.	Bidders are required to submit a self-declaration on their letter head as per the Format enclosed in <b>Annexure V</b> .
7.	Blank Price Bid as per annexure "JS 472".
8.	<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>



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**TENDER ENQUIRY NO: FBM/TW/10/01**

**DATE: 16.08.2021**

**ANNEXURE D**

**PROFORMA FOR SUBMITTING TECHNICAL BID**

1	Name of the firm <b>(Essential)</b>	
2	Address and Contact Numbers <b>(Essential)</b>	
3	Name of the Proprietor <b>(Essential)</b>	
4	Registration Number of the Firm <b>(Essential)</b>	
	Copy of the Certificate	Enclosed / Not Enclosed
5	PF Code Number <b>(Essential)</b>	
	Copy of PF registration	Enclosed / Not Enclosed
6	ESI Code Number <b>(Essential)</b>	
	Copy of ESI registration	Enclosed / Not Enclosed
7	PAN/TAN Number <b>(Essential)</b>	
8	GST Number(PAN Based) <b>(Essential)</b>	
9	Experience Certificate (Along with balance sheet & profit and loss account/ turnover certificate issued by CA) <b>(Essential)</b>	Enclosed / Not Enclosed
10	Earnest Money Deposit <b>(Essential)</b>	<b>Rs. 84,000/-</b>
	Receipt No. & Date	
	Electronic fund Transfer no. (Bank)	

We hereby accepted above (signature & seal of bidder)



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**DATE: 16.08.2021**

11	Validity of offer	120 days from the date opening of technical bid
13	Blank Price bid format <b>(Essential)</b>	Enclosed / Not Enclosed
14	Valid E-Mail Id <b>(Essential)</b>	
15	Participation in RA	YES / NO
16	Proprietorship/ partnership deed	
17	Acceptance of General Terms & Conditions	YES / NO
18	Submission of Security Deposit after award of tender	YES / NO

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