

Department: Works Engineering and Services
Tender Enquiry No.: WEX/TE/TW/22/18, Dated. 12.07.2023



TENDER DOCUMENT

Tender Enquiry No.: WEX/TE/TW/22/18 Dated 12.07.2023

For

"Rewinding of 3-Phase Motors, Single Phase Motors & Ceiling Fan Motors in BHEL-Jhansi (Works Contract)"

Contact Person:

Contact Person:

Name: Mohd Afaqu
Designation: Dy. Mgr. / WEX
Email: mohdafaqu@bhel.in
PH: 0510-2412359

Tender Due Date: 01.08.2023, at 13:15 Hrs.
Tender Opening Date: 01.08.2023, at 14:00 Hrs.

Rev Date: Short details of revision (In case of revision in tender document, otherwise NA

DEPARTMENT: WORKS ENGINEERING AND SERVICES BHEL, PO: BHEL, JHANSI 284120 (UP)

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DETAILS OF TENDER DOCUMENT

Nature of work: "Rewinding of 3-Phase Motors, Single Phase Motors & Ceiling Fan Motors in BHEL-Jhansi (Works Contract)"

BHEL -JHANSI is in the process of finalizing the Works Contract for Rewinding of 3-Phase Motors, Single Phase Motors & Ceiling Fan Motors in BHEL-Jhansi (Works Contract).

The tender document has been detailed as follows:

- a) Notice Inviting Tender (Annexure A)
- b) Scope of work & Work Specifications (Annexure B)
- c) Copper weight in rewinding and burnt copper recovered (Annexure C)
- d) Qualifying Requirements (Annexure D)
- e) Special Terms and Conditions (Annexure E)
- f) Technical Bid Application (Annexure F)
- g) General Terms and Conditions (JHS 2055B R02)
- h) Blank Price Bid format (Annexure F(a))
- i) Price Bid format (Annexure F(b))
- j) Document referred in GTC (Annexure I- XII)

The duly filled in technical bid, blank price bid and price bid (refer annexure E, F (a) & F (b)) separately along with the tender instructions & contractor obligations, general terms and conditions with the signature & seal of the tenderer on all the pages and complete in all respects super scribed as "Quotation for Tender No. WEX/TE/TW/22/18 Dated 26.03.2023" should reach us in a sealed cover on or before 16.04.2023 (13.15 hours) through Registered / Speed post or the same may be dropped in the tender box available at the following address: (refer GTC ii (c).

To
Tender Box
Security Control Room/Office
Administrative Building
Bharat Heavy Electricals Limited
Jhansi-284120 (UP)

Note: 1) Dropping of tender in the Tender Box within schedule time and date is the responsibility of the bidder.



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2) Technical bid and price bid should be submitted in separate sealed envelopes, in case the bids founds

in one single envelope then the "bids" are liable to be rejected.

TENDER DOCUMENTS

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7	Technical Bid	F	11-12
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9	Blank Price Bid Format	F (a)	43
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Annexure A

NOTICE FOR INVITING TENDER

S. No	Particulars	Details
1	Brief Description of work	Rewinding of 3-Phase Motors, Single phase Motors & Ceiling Fan Motors in BHEL-Jhansi (Works Contract)
2	Tender Evaluation Criteria	As per GTC point (iv)
3	Duration of Contract	One year or completion of total work whichever is earlier
4	Address for submitting the Tender	As per GTC point ii(c)
5	Earnest Money Deposit * (EMD)	₹ 9688.00/-
6	Cost of Tender	Nil
7	MSME Clause	As per GTC point (iii)
8	Validity of Offer	120 Days
9	Security Deposit	As per GTC point (ix)
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

Note: *

The EMD shall be accepted only in the following forms:

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

BHEL account details: Bank Name: - SBI; A/c No. : - 10670828866; IFSCode:- SBIN0003807 A/c Holder

Name:- BHARAT HEAVY ELECTRICALS LIMITED

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

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Annexure-B

WORK SPECIFICATION

DETAILS OF WORK:



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SL	Description of Work	UOM	Quantum of Work
1	Rewinding of 1-Phase AC Induction Motor for Air-Conditioners (it includes stator of the motor only) completed in all respect.		45
2	Rewinding of 1-Phase AC Induction Motor for exhaust fan below 18" size (it includes stator of the motor only) completed in all respect.	no.	20
3	Rewinding of 1-Phase AC Induction motor for exhaust fan above 18" size (it includes stator of the motor only) completed in all respect.	no.	40
4	Rewinding of 1-Phase AC Induction motor up to 01HP (it includes stator of the motor only) completed in all respect.	no.	8
5	Rewinding of 1-Phase AC Induction motor of kit/fresh-air/wall-mounted/pedestal-fan (it includes stator of the motor only) completed in all respect.	no.	20
6	Rewinding of 3-Phase AC Induction motor up to 01HP (it includes stator of the motor only) completed in all respect.	no.	20
7	Rewinding of 3-Phase AC Induction motor 1HP to 2HP (it includes stator of the motor only) completed in all respect.	no.	40
8	Rewinding of 3-Phase AC Induction motor 3HP to 5HP (it includes stator of the motor only) completed in all respect.	no.	40
9	Rewinding of 3-Phase AC Induction motor 7.5HP (it includes stator of the motor only) completed in all respect.	no.	22
10	Rewinding of 3-Phase AC Induction motor 10HP (it includes stator of the motor only) completed in all respect.	no.	12
11	Rewinding of 3-Phase AC Induction motor 12.5HP to 15HP (it includes stator of the motor only) completed in all respect.	no.	5
12	Rewinding of 3-Phase AC Induction motor 20HP (it includes stator of the motor only) completed in all respect.	no.	5
13	Rewinding of 3-Phase AC Induction motor 25HP (it includes stator of the motor only) completed in all respect.	no.	4
14	Rewinding of 3-Phase AC Induction motor 30HP (it includes stator of the motor only) completed in all respect.	no.	3
15	Rewinding of 3-Phase AC Induction motor 40HP (it includes stator of the motor only) completed in all respect.	no.	2
16	Rewinding of 3-Phase AC Induction motor 50HP (it includes stator of the motor only) completed in all respect.	no.	1
17	Rewinding of ceiling fan motors.	no.	200
18	Repairing /machining of ceiling fan shaft.	no.	50
19	Repairing/machining of bearing housing of ceiling fan motors.	no.	50
20	Replacement of shaft and bush of 1-Phase AC Induction Motor for Air- Conditioners	no.	25
21	Repairing of motor housing and shaft of 1-Phase AC Induction motor for exhaust fan/wall-mounted/ pedestal-fan/etc.	no.	36
22	Repairing of motor housing and shaft of 3-Phase AC Induction motor up to 01 HP	no.	8



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SL	Description of Work		Quantum of Work
23	Repairing of motor housing and shaft of 3-Phase AC Induction motor from 1 HP to 2 HP	no.	16
24	Repairing of bearing housing per end cover of 3-Phase AC Induction motor 3HP to 5HP	no.	16
25	Repairing of bearing housing per end cover of 3-Phase AC Induction motor 7.5HP	no.	10
26	Repairing of bearing housing per end cover of 3-Phase AC Induction motor 10HP	no.	6
27	Repairing of bearing housing per end cover of 3-Phase AC Induction motor 12.5HP to 15HP	no.	4
28	Repairing of bearing housing per end cover of 3-Phase AC Induction motor 20HP	no.	4
29	Repairing of bearing housing per end cover of 3-Phase AC Induction motor 25HP	no.	4
30	Repairing of bearing housing per end cover of 3-Phase AC Induction motor 30HP	no.	2
31	Repairing of bearing housing per end cover of 3-Phase AC Induction motor 40HP	no.	2
32	Repairing of bearing housing per end cover of 3-Phase AC Induction motor 50HP	no.	2

SCOPE OF WORK

- **1.** Rewinding & repairing of 3-Phase and Single Phase Motor: Scope for rewinding and repairing of 3 phase and single phase motors are mentioned below & for the detail of work refer annexure-B.
 - **1.1** Rewinding and repairing of all motors shall be done in party's work shop.
 - **1.2** All the material used by party in motor rewinding including winding wire, insulating material and insulating varnish etc. should be of a good quality.
 - **1.3** All re-winded or re-winded & repaired motors shall be covered under a guarantee for a minimum period of 06 months.
 - 1.4 Transportation of damaged and re-winded / repaired motors shall be arranged by the party.
 - **1.5** Damaged motors shall be issued to the party through returnable material gate pass by Test Plant Maintenance Center of Factory.
 - **1.6** Fresh damaged motors shall be issued to the party by BHEL only after handing over the previous Rewinded motors to BHEL by the party.
 - 1.7 Burnt copper wires of damage winding will be at bidder's disposal. However, this shall be taken care of while quoting the rates in their offer for item no. 1 to 16 of BOQ. Approximate weight of fresh copper needed for rewinding and approximate weight of burnt copper recovered after rewinding against individual motor is mentioned in Annexure-C.
 - **1.8** The vendor needs prior permission of the BHEL wherein repairing of motor housing & shaft (price schedule clause SL-21, 22 &23) is needed along with rewinding.
 - **1.9** The vendor needs prior permission of the BHEL wherein replacement of shaft & bush (price schedule clause SL-20) is needed along with rewinding.



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- 1.10 The vendor needs prior permission of the BHEL wherein repairing of motor housing (price schedule clause SL-24 to 32) is needed along with rewinding
- **2.** Rewinding & repairing of ceiling fan motors: Scope for fan motor rewinding and repairing is mentioned below and for the details of work refer annexure-B.
 - **2.1** Rewinding of ceiling fan motors shall be done in party's work shop.
 - **2.2** All the material used by party in ceiling fan motor rewinding including winding wire insulating material and insulating varnish etc. should be of a good quality.
 - **2.3** The re-winded or re-winded & repaired ceiling fan motors shall be covered under a guarantee for a minimum period of 06 months.
 - **2.4** Transportation of damaged and re-winded/ repaired motors shall be arranged by the party.
 - **2.5** Damaged ceiling fan motors shall be issued to the party through returnable material gate pass (in a lot of maximum 20 ceiling fan motors) by Test Plant Maintenance Center of Factory.
 - **2.6** Fresh lot of Damaged ceiling fan motors shall be issued to the party by BHEL only after handing over the previous lot of re-winded/ repaired ceiling fan motors to BHEL, by the party.
 - **2.7** Burnt copper wires of damage winding will be at bidder's disposal. However, this shall be taken care of while quoting the rate in their offer for item no 17 of BOQ. Approximate weight of fresh copper needed for rewinding and approximate weight of burnt copper recovered after rewinding against individual motor is mentioned in Annexure-C (Item SL-17).
 - **2.8** The vendor needs prior permission of the BHEL wherein either repairing of motor housing or repairing of shaft (price schedule clause SL-19 &18) is needed along with rewinding.
- 3. Special Remark:
 - **3.1** In the contract, provision of CLRA will not be applicable.
 - **3.2** GST shall be paid extra as applicable.
- **4. Urgent Work:** The contractor shall have to comply with the priorities fixed by the maintenance in charge for taking urgent rewinding work other than schedule rewinding work.
- **5. Period of Contract:** The period of contract will be for twelve months from the date of issue of work order or till the completion of work.
- **6. LD clause:** Vendor need to return all the re-winded / re-winded & repaired motors within 30 days from the date of issue (motor will be issued through returnable material gate pass) of motor. Material (rewinded / re-winded & repaired motors) returned to BHEL beyond 30 days shall be liable for LD as per GTC clause 4-Penalty for delayed performance/payment.



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Annexure-C

	Approximate amount of fresh & burnt copper used/recovered	d in rew	inding pe	er motor (in	KG)
SI.	Description of Work	иом	No of motors	Approx. copper wt/motor for rewinding in kg	Approx. burnt copper wt/motor recovered (approx.85% of fresh copper)
1	Rewinding of 1-Phase AC Induction Motor for Air-Conditioners (it includes stator of the motor only) completed in all respect.	no.	45	0.775	0.66
2	Rewinding of 1-Phase AC Induction Motor for exhaust fan below 18" size (it includes stator of the motor only) completed in all respect.	no.	20	0.695	0.59
3	Rewinding of 1-Phase AC Induction motor for exhaust fan above 18" size (it includes stator of the motor only) completed in all respect.	no.	40	0.9	0.77
4	Rewinding of 1-Phase AC Induction motor up to 01HP (it includes stator of the motor only) completed in all respect.	no.	8	1.35	1.15
5	Rewinding of 1-Phase AC Induction motor of kit/fresh-air/wall-mounted/pedestal-fan (it includes stator of the motor only) completed in all respect.	no.	20	0.51	0.43
6	Rewinding of 3-Phase AC Induction motor up to 01HP (it includes stator of the motor only) completed in all respect.	no.	20	1.55	1.32
7	Rewinding of 3-Phase AC Induction motor 1HP to 2HP (it includes stator of the motor only) completed in all respect.	no.	40	1.95	1.66
8	Rewinding of 3-Phase AC Induction motor 3HP to 5HP (it includes stator of the motor only) completed in all respect.	no.	40	3.25	2.76
9	Rewinding of 3-Phase AC Induction motor 7.5HP (it includes stator of the motor only) completed in all respect.	no.	22	5.45	4.63
10	Rewinding of 3-Phase AC Induction motor 10HP (it includes stator of the motor only) completed in all respect.	no.	12	9.6	8.16
11	Rewinding of 3-Phase AC Induction motor 12.5HP to 15HP (it includes stator of the motor only) completed in all respect.	no.	5	11.95	10.16
12	Rewinding of 3-Phase AC Induction motor 20HP (it includes stator of the motor only) completed in all respect.	no.	5	14.9	12.67
13	Rewinding of 3-Phase AC Induction motor 25HP (it includes stator of the motor only) completed in all respect.	no.	4	18.1	15.39
14	Rewinding of 3-Phase AC Induction motor 30HP (it includes stator of the motor only) completed in all respect.	no.	3	21.95	18.66
15	Rewinding of 3-Phase AC Induction motor 40HP (it includes stator of the motor only) completed in all respect.	no.	2	25.1	21.34
16	Rewinding of 3-Phase AC Induction motor 50HP (it includes stator of the motor only) completed in all respect.	no.	1	29.4	24.99



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17 Rewinding of ceiling fan motors. no. 200 0.3725 0.32

Annexure-D

QUALIFYING REQUIREMENTS

Sl. No.		ption of Qualifying requirement			
1.	Average Annual Financial turnover:	, man and a summing continuous			
1.	1.1 Average Annual financial turnove	r during the last 3 years ending 31st March 2022 should be at inancial Statement / Balance sheet / Certificate from CA to be			
	1.2 If balance sheets are not available by dividing the sum of turnover of sub	for all three years then the average turnover shall be calculated mitted balance sheets by three.			
	1.3 Bidder not having statutory obliga then he must submit following docum	tion to get financial statement audited as required in clause 1.1 ents as evidence of turnover:			
	a. A certificate from (CA duly vetting turnover.			
	la Avalta di la da ca a di	OR			
	b. Audited balance sr	neet & profit and loss amount.			
2.	 10 years from the date of floating of to 2.1 Three similar completed works conteach costing not less than the amount 2.2 Two similar completed works conteach costing not less than the amount 2.3 One similar completed work contreach Costing not less than the amount Similar work (both points included): Rewinding of either 3-phase induct Bidder's having rewinding experient 	OR Tracts during last 10 years from the date of floating of tender t equal to Rs. 2.42 Lakhs. OR Tacts during last 10 years from the date of floating of tender			
	Worked for Documentary Proof to be attached.				
	A) In case of Experience in Government Organizations / PSU/Semi Government / Private Sector. B) In case experience is submitted for	i) Copy of Work Order/Purchase Order. ii) Copy of Work Completion Certificate/performance certificate iii) TDS Certificate (Traces form 26AS or 16A) r work done in BHEL Jhansi, TDS/Tax invoice is not required.			
3. 4.	Contractor should have valid GSTN (PA	·			



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Annexure -E

SPECIAL TERMS & CONDITIONS

- 1. The contract shall be divided between L1 & L2 bidders in the ratio of 60:40.
- 2. All the eligible bidders will be categorized from L1 to Lh bidder (Lh will be the bidder who quoted highest rate) on basis of their quoted rates. In case of equal rates at the same level, a toss/lottery shall be drawn among all the contractors having quoted equal rates for grading from lower to higher rates. This list shall be referred for award of work. L1 bidder shall get the 60% of work, whereas after counter offer (if required), L2 shall get 40% of the work at the L1 rate. In case L2 bidder declines to accept the offered L1 rate, the criteria for award of work at the L1 rate will shift to the next higher eligible bidder and so on.
- **3.** In case no eligible bidder accepts counter offer at L1 rate, the entire contract shall be awarded to L1 bidder.
- **4.** The quantity of each individual item given in the above price schedule is tentative and is only for evaluating the total cost of the work. During the execution of the contract, the quantity of individual items allotted to the vendor may vary in any ratio, but it will be restricted to the total contract value allotted to the vendor. The evaluation of the contract will be done on an overall L1 basis.



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Annexure -F

TECHNICAL BID APPLICATION

TECHNICAL BID APPLICATION FOR "Rewinding of 3-Phase Motors & Ceiling Fan Motors in BHEL-Jhansi" (Work Contract).

(A) ESSENTIAL DOCUMENTS REQUIRED
1. Name of the firm:
2. Name of the Proprietor:
3. Address, e-mail and Contact Numbers:
4. ESI Code Number (of the company's operator):
Copy of the ESI Certificate Enclosed / Not Enclosed
5. PAN/TAN Number:
6. Goods & Service Tax Number (PAN Based):
o. doods & service rax Number (FAN Basea).
Copy of Certificate Enclosed / Not Enclosed
7. Audited financial statement/CA Certificate as per tender: Enclosed / Not Enclosed
8. Experience Certificate: Enclosed / Not Enclosed
(Along with necessary enclosures as per tender to be submitted)
9. Earnest Money Deposit: Rs
a) D.D. Number & Date:Date
b) Drawn on (Bank):
11. Any other relevant information:
12. Tender Cost: Rs
D.D. No. /Receipt No:
13. Validity of offer:
(At least 90 days from the date of tender Opening.)
14. Blank Price bid format: Enclosed / Not Enclosed
15. PF registration certificate (if exempted, submit exemption proof)
PF registration code:
Attach Copy of the PF registration



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16. ESI registration certificate: (if exempted submit exemption proof)

ESI registration code: Attach Copy of ESI registration
(B) DESIRABLE:
 Income Tax return last 3 yrs.: Enclosed / not enclosed Acceptance of Reverse Auction: Accepted / not accepted
We will fulfill all the obligations of the contractor and abide by the Terms $\&$ Conditions mentioned in the enquiry.
Signature with Name & Office Seal
Date:
NOTE: TECHNICAL BID AND PRICE BID SHOULD BE SUBMITTED IN SEPARATE SEALED ENVELOPS. IN CASE THE BIDS ARE FOUND IN ONE SINGAL ENVELOPE THEN THE "BIDS" ARE LIABLE TO BE REJECTED.