

TENDER DOCUMENT (PRICE BID)		
Name of work	:	Rewinding of Ceiling Fans and Motors in Township, Reservoir, Vengur, Puthapuram and Keelamullaikudi etc.,
Tender Schedule No	:	CT:TS:038/19-20
Estimate / Tender Value	:	Rs.5,02,090(Excluding GST)
EMD	:	Rs.10000
Period of Contract	:	15 (Fifteen) Months

Important Note:

EMD EXEMPTION WILL NOT BE ALLOWED TO MSME / NSIC VENDORS for works contract. This tender is categorized as a work contract. Hence Tenderers are compulsorily need to remit the required **EMD** in order to participate in the Tender. Tender without corresponding EMD will be summarily rejected and will not be considered for any reasons.

SCHEDULE 'A'**LIST OF WORKS AND PRICES**

NAME OF WORK: Rewinding of Ceiling Fans and Motors in Township, Reservoir, Vengur, Puthapuram and Keelamullaikudi etc.,

I / We _____ have read the condition of tender attached hereto and agree to abide by such conditions. I / We offer to execute the works in **T.S No. CT: TS: 038/19 – 20 for a period of 15 (Fifteen) months** at the percentage below / at par / above the rates contained in Bill of Quantities appended below from **Page No. 3 to 5**

I / We further agree to sign an Agreement Bond to abide by the General Conditions of Contract and to carry out all works according to the specifications for materials and works of Bharat Heavy Electricals Limited, Tiruchirappalli-620 014. In case of acceptance of the tender by the BHEL, I / We bind myself / ourselves to execute the contract documents within 7 days after notice that my/our tender has been accepted and this contract has been awarded to menus and thus failing which I / We shall have no objection to the forfeiture of the Earnest Money amount to **Rs. 10000** lodged with Bharat Heavy Electricals Limited, Tiruchirappalli - 620 014.

I / We further agree to include all tools & plants and consumables required for the work in my / our scope but required power and water will be provided at one point by BHEL at free of cost and based on this, we have quoted our percentage.

Note: Details & Quantities of each item of work shown in the BILL OF QUANTITIES are only approximate and the same is appended below. They are given as a guide for the purpose of tendering only and are liable to variation and alteration of the Competent Authority. The work under each item as executed shall be measured and priced at the overall percentage quoted by the contractor Below (100 - X %) / At par (100 %) / Above (100 + X %) of the rates provided in Bill of Quantities **appended below from Page No. 3 to 5.**

Sl. No.	Approx. Value of work	Common single Percentage Rate (Below (100 – X)% / At Par (100%) / Above (100 +X) %) to be quoted with respect to the rates provided in the Bill of Quantities (all items as enclosed in the Price Bid of the Tender Document) from Page No. 3 to 5.	
		In Figures	In Words
1.	Rs.5,02,090 =(100%) (Excluding GST)		

CIVIL ENGINEERING DEPARTMENT (TOWNSHIP), BHEL, TRICHY - 14

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Dt. 18 01 2020

Note: BHEL estimate rates are given below. Contractor has to quote the overall percentage only {Below (100-X %) / At par (100%) / Above (100+X %)} at page No. 2 both in figures and in words

BILL OF QUANTITIES

Name of work: Rewinding of Ceiling Fans and Motors in Township, Reservoir, Vengur, Puthapuram and Keelamullaikudi etc.,

Sl.No	Description of work	Qty	Unit	Rate (Rs)	Amount (Rs)
1	Rewinding of Ceiling fans	500	NO	347.00	173500.00
2	Rewinding of single phase AC motors upto 3 HP	4	NO	1950.00	7800.00
3	Rewinding of three phase squirrel cage induction motor-Horizontal 0.5 HP to 3 HP	2	NO	2175.00	4350.00
4	Rewinding of three phase squirrel cage induction motor-Horizontal 3 HP to 5 HP	4	NO	2600.00	10400.00
5	Rewinding of three phase squirrel cage induction motor-Horizontal 5 HP to 10 HP	2	NO	3900.00	7800.00
6	Rewinding of three phase squirrel cage induction motor-Vertical 60 HP	1	NO	28800.00	28800.00
7	Rewinding of three phase squirrel cage induction motor-Horizontal 75 HP	1	NO	33600.00	33600.00
8	Rewinding of three phase squirrel cage induction motor-Horizontal 100 HP	1	NO	43200.00	43200.00
9	Rewinding of three phase squirrel cage induction motor-Horizontal 150 HP	1	NO	52800.00	52800.00
10	Rewinding of three phase open type submersible motor 3 HP pump water seal, oil ring replacement and service charges	1	NO	5280.00	5280.00
11	Rewinding of three phase open type submersible motor 12.5 HP pump water seal, oil ring replacement and service charges	1	NO	24000.00	24000.00

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Sl.No	Description of work	Qty	Unit	Rate (Rs)	Amount (Rs)
12	Rewinding of three phase Borewell submersible motor 1 HP to 3 HP pump water seal, oil ring replacement and service charges	2	NO	6000.00	12000.00
13	Rewinding of three phase Borewell submersible motor 3 HP to 5 HP pump water seal, oil ring replacement and service charges	2	NO	8000.00	16000.00
14	Rewinding of three phase Borewell submersible motor 7.5 HP pump bush replacement and service charges	1	NO	11040.00	11040.00
15	Rewinding of three phase Borewell submersible motor 10 HP pump bush replacement and service charges	1	NO	12960.00	12960.00
16	Rewinding of three phase Borewell submersible motor 12.5 HP pump bush replacement and service charges	1	NO	14880.00	14880.00
17	Rewinding of three phase Borewell submersible motor 15 HP pump bush replacement and service charges	1	NO	19200.00	19200.00
18	Rewinding of three phase Borewell submersible motor 17.5 HP pump bush replacement and service charges	1	NO	24480.00	24480.00
				TOTAL	502090.00

Rupees Five Lakhs Two Thousand and Ninety only**NOTE:****SCOPE OF WORK:**

Rewinding of the given single phase 230 V AC Ceiling fans / single phase AC motors / 3 phase squirrel cage induction motors, etc., by carrying out the following works:

- Dismantle, check the condition of coil and remove the old/burnt out coils fully.
- Remove and clean the slots.
- Repair the core and other internals if required.
- Re-insulate the motor's slots with fresh quality F-Class insulation materials.
- Rewinding the motors by using ISI standard super enamel copper wire. [ATLAS, HTP, DEVIDHAYAL, LG]

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- f) Apply 100 % varnishing using INSULVAR V30 / DR. BECK & CO. / ELVIN brand of varnish.
- g) Heat treat the coil assembly in the oven lamp.
- h) Assemble the motors and suitable and termination should be done properly. The insulation values should be more than 50 mega ohms.
- i) Motor bearing shall be replaced in case of fault which will be supplied by BHEL at free of cost.
- j) Test the motors performance to the full capacity at contractor's work in the presence of BHEL representative.
- k) Bring the rewounded motors to BHEL and prove the performance completely in all aspects at BHEL civil township.

SPECIAL TECHNICAL CONDITIONS:

1. While dismantling and assembling of motors, proper care should be taken by the contractor, so that the shaft / end cover and other accessories are not damaged.
2. Bearings if found damaged to be replaced by the contractor. On intimation of the bearing condition to BHEL, new bearings will be supplied by BHEL free of cost. The removed bearings should be returned to BHEL, with proper gate entry.
3. The new super enamelled copper coils should be provided by the contractor under their supply scope.
4. Loading, Unloading & transporting of motors from BHEL Civil township to contractor's works and back to BHEL Civil township will be at contractor's scope. Any handling facility required at our works will be provided at free of cost.
5. The rate is inclusive of the cost of materials such as new copper conductor's, Insulating materials, Varnishes etc.
6. All the scrap materials including **old copper coil shall be retained with the contractor.**
The cost shall be adjusted in the total rewinding cost.
7. The contractor should return the rewind motors with BHEL gate pass only and not by any other mode.
8. Contractor shall submit guarantee certificate & parameter certificate (model Certificate were attached) for the performance of the motors for a minimum period of 6 months from the date of delivery at our works against quality of materials / workmanship.
If the components fall within the guarantee period, the contractor should carry out the re-work free of cost.
Including transportation immediately upon receiving information from BHEL, and ensure satisfactory performance for a minimum period of 6 months after rework.

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