



आईएसओ 9001-2015 पत्तान  
AN ISO 9001-2015 PORT

MORMUGAO PORT AUTHORITY  
**ENGINEERING MECHANICAL DEPARTMENT**  
**ELECTRICAL HARBOUR SECTION**

**NOTICE INVITING BUDGETORY OFFERS**

Name of Work	<b>"Annual Rate Contract (ARC) for Rewinding of LT Motors, Welding Machines and Alternators "</b>
Budgetary Quotation No	CME/XEN (E-HR)/ 23/ B7
Date of submission of budgetary quotation	On or before <b>06/12/2023 at 15:00 Hrs-</b>
Address for communication:	Executive Engineer (E-HR), 2nd floor, Mechanical Engineering Department, Mormugao Port Authority, Admin. Building, Headland sada Vasco-de-Gama Goa - 403804
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**EXECUTIVE ENGINEER (E-HR)**  
**MORMUGAO PORT AUTHORITY**

## TECHNICAL SPECIFICATION

### 1. GENERAL

Mormugao Port Trust invites budgetary quotations for Annual Rate Contract (ARC) for  
“**Rewinding of LT Motors, Welding Machines and Alternators**”

### 2. SCOPE of WORK for re-winding of LT Motors, welding machines and Alternators.

#### 2.1 Shifting defective motor/alternators/equipment from MPT site

The defective LT Motors and welding machines will be delivered to the contractor's workshop for rewinding/overhauling and same will be collected from their workshop after repairs. However, in case of alternators of the DG sets/welding transformers, the contractor shall visit the site and if found necessary dismantle the alternator and shift the same to their workshop and after repairs/ overhauling deliver, install and commission the same. The contractor shall utilize his own transport without incurring any additional expenditure to the Port, whatsoever.

#### 2.2 Rewinding to Motors/ Alternators/welding machines.

##### A. Inclusions

- I. Dismantling of the Motor/Alternator after removal of coupling. Assessment of the work to be carried out jointly with Port Engineer.
- II. Recondition / replace the defective / broken rotor bars. Rewind the motor / stator / rotor with suitable copper wire and reinsulate with proper class of insulation as required. The required copper wire, rotor bars, varnish, insulation tapes/ filler has to be provided by contactor at his own cost.
- III. Bake the rewound stator / rotor as per standards.
- IV. Contractor shall remove and replace the defective bearings, terminal block, cooling fan, studs, rotor shaft, end shields if required, the spares shall be arranged by the contractor or supplied by Port as decided by Engineer In Charge.
- V. Re-assemble the motor/ Alternator and carry out following test as found applicable.
  - a. Open circuit test.
  - b. No load test
  - c. Insulation test.
- VI. Value of the above tests to be submitted while delivering the repaired / rewound motors.

##### B. Exclusions

- i. The below mention spares are excluded and chargeable at extra cost:
  - a. Bearings
  - b. Terminal Block and terminal block over
  - c. Stud, Bolts
  - d. Cooling fan
  - e. Cooling fan and its cover
  - f. Rotor and Rotor shaft.
  - g. End shield
  - h. Any other spares which are not listed at A

### **2.3 Overhauling of Motors/ Alternators/welding machines**

#### **A. Inclusions**

- i. Dismantling of the Motor/Alternator after removal of coupling.
- ii. Improving IR values by heating/baking, which shall include labor for replacement of bearings, terminal block, cooling fan etc. If required, the spares shall be arranged by the contractor or supplied by Port as decided by Engineer In Charge.

#### **B. Exclusions**

All the spares listed at 2.2 B

### **2.4 Returning rewounded/overhauled alternator to MPT site.**

- i. Assemble the alternator; fix the coupling and carryout the tests as found applicable for the job in the presence of Port Engineer or the representative, 2 days advance intimation shall be sent by the successful tenderer to make necessary arrangement at our end. Test reports as necessary to be submitted along with repaired equipment's.

### **3.0 TECHNICAL SPECIFICATION:**

The work of rewinding/overhauling of motors/alternators/welding Machine has to be carried out in accordance to relevant IS standards.

### **4.0 Special terms and Conditions:**

- i. Tenderer should examine the scope of work involved and fully appraise the amount of work involved and then quote accordingly.
- ii. Old /scrap copper wire will be the property of the contractor.
- iii. A detailed list of various types of LT (AC/DC) motors, generators etc. are indicated in the BOQ. The tenderer is required to indicate unit prices for all the items.

- iv. The list is only indicative and does not guarantee that all these items will be offered for rewinding during the currency of the contract. The items from the list will be offloaded as and when the work arises by formal regularizing order on the successful tenderer.
- v. No deviations/alterations are allowed in respect of delivery schedule indicated by us. In the case of exigency, the tenderer will be required to complete work in short period. However, in normal cases completing the work ahead of schedule will be appreciated.
- vi. The tenderer has to maintain a close liaison with the concerned Port Site Engineer at Site Electrical workshop and ensure that the work is attended as per site requirements and in accordance with relevant statutory and safety regulations.

#### **5.0 Period of contract:**

The rates accepted by the Port will be effective for a contract period of two years from the date of receipt of acceptance of LOA/ Purchase order. However, the **contract may be renewed for further period of one year at the same rates, terms and conditions, which is at the sole discretion of the Port.**

#### **6.0 Completion Period:**

The Contractor should then take up immediately the repairs/rewinding of the LT motors/alternator as and when the work arises during the currency of contract period the same shall be regularized by Purchase Order.

Motors/ welding machines: shall be rewound/repared within **15 days** or earlier from the date of delivery of the motor to their workshop.

Alternators of DG set/ welding transformers: The work shall be completed within **7 days** from the date of intimation. However, the work of attending and rectification of alternators of DG set shall be taken up immediately and utmost priority shall be given to commission the DG set.

#### **7.0 GUARANTEE**

The Guarantee for the work done shall be for a period of 1 year from the date of handing over of motor/alternator/field. The repair/replacement shall be carried out in mutual consultation with the Engineer In-charge without incurring additional expenditure to the Port whatsoever under any circumstances.



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**8.0 QUALIFICATION CRITERIA:**

The Bidder shall have successfully carried out work of Rewinding of alternators/motors during last 7 (Seven) years ending last day of month previous to the one in which quotations are invited for Central Govt. / State Govt. / Port Sector / PSU or any reputed organization.

**PRICE SCHEDULE (BILL OF QUANTITIES)**

Name of the Tender: “Annual Rate Contract (ARC) for “Rewinding of LT Motors, Welding Machines and Alternators”

Sr. No.	Description of work	Unit	Qty.	Rate per Unit (Rs.)		Applicable GST (%)	Amount (Rs.)
				In figure	In word		
<b>(I) REWINDING OF AC MOTORS, SQUIRREL CAGE</b>							
1	450W, 1 phase, exhaust fans	No	1				
2	0.37KW/0.5 HP, 3 phase/1 phase, 440V/230V	No	1				
3	0.75kW/1 HP, 3 phase/1 phase, 440V/230V	No	1				
4	1.2 KW/1.5HP , 3 phase/1 phase, 440V/230V	No	1				
5	1.5 KW/2 HP, 3 phase, 440 V	No	1				
6	2.25KW/3 HP, 3 phase, 440 V	No	1				
7	3.75KW/5 HP, 3 phase , 440 V	No	1				
8	7.5 HP, 3 phase, 440 V	No	1				
9	10 HP, 3 phase, 440 V	No	1				
10	15 HP, 3 phase, 440 V	No	1				
11	15 KW/20HP, 440 V	No	1				
12	22.5KW/30 HP, 440 V	No	1				

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13	30KW/40 HP, 440 V	No	1				
14	45KW/60 HP, 440 V	No	1				
15	75 KW/ 100 HP, 440V	No	1				
<b>(II) DC SERIES MOTOR, 0.44KW/0.59HP, 1700RPM,110Volts</b>							
a	Rewinding of Armature	No	1				
b	Rewinding of Field	No	1				
c	Overhauling & improvement of IR values and replacement of carbon brushes/minor spares	No	1				
<b>(III) ALTERNATORS</b>							
<b>1 Alternator 500 KVA, 1500 rpm</b>							
a	Rewinding of Stator	No	1				
b	Rewinding of Rotor	No	1				
c	Rewinding of Stator excitation	No	1				
d	Rewinding of rotor excitation	No	1				
e	Overhauling & improvement of IR values and replacement of carbon brushes/minor spares	No	1				
<b>2 Alternator 300/320 KVA, 1500 rpm</b>							
a	Rewinding of Stator	No	1				
b	Rewinding of Rotor	No	1				

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c	Rewinding of Stator excitation	No	1				
d	Rewinding of rotor excitation	No	1				
e	Overhauling & improvement of IR values and replacement of carbon brushes/minor spares	No	1				
<b>3</b>	<b>Alternator 250 KVA, 1500 rpm</b>						
a	Rewinding of Stator	No	1				
b	Rewinding of Rotor	No	1				
c	Rewinding of Stator excitation	No	1				
d	Rewinding of rotor excitation	No	1				
e	Overhauling & improvement of IR values and replacement of carbon brushes/minor spares	No	1				
<b>4</b>	<b>Alternator 160 KVA, 1500 rpm</b>						
a	Rewinding of Stator	No	1				
b	Rewinding of Rotor	No	1				
c	Rewinding of Stator excitation	No	1				
d	Rewinding of rotor excitation	No	1				
e	Overhauling & improvement of IR values and replacement of carbon brushes/minor	No	1				



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	spares						
<b>5</b>	<b>Alternator 125 KVA, 1500 rpm</b>						
a	Rewinding of Stator	No	1				
b	Rewinding of Rotor	No	1				
c	Rewinding of Stator excitation	No	1				
d	Rewinding of rotor excitation	No	1				
e	Overhauling & improvement of IR values and replacement of carbon brushes/minor spares	No	1				
<b>6</b>	<b>Alternator 100 KVA, 1500 rpm</b>						
a	Rewinding of Stator	No	1				
b	Rewinding of Rotor	No	1				
c	Rewinding of Stator excitation	No	1				
d	Rewinding of rotor excitation	No	1				
e	Overhauling & improvement of IR values and replacement of carbon brushes/minor spares	No	1				
<b>7</b>	<b>Alternator 45 KVA, 1500 rpm (Truck mounted)</b>						
a	Rewinding of Stator	No	1				



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b	Rewinding of Rotor	No	1				
c	Rewinding of Stator excitation	No	1				
d	Rewinding of rotor excitation	No	1				
e	Overhauling & improvement of IR values and replacement of carbon brushes/minor spares	No	1				
<b>8</b>	<b>Alternator 15 KVA, single phase, 1500 rpm</b>						
a	Rewinding of Stator	No	1				
b	Rewinding of Rotor	No	1				
c	Rewinding of Stator excitation	No	1				
d	Rewinding of rotor excitation	No	1				
e	Overhauling & improvement of IR values and replacement of carbon brushes/minor spares	No	1				
<b>9</b>	<b>Alternator of welding Generators set, Current range 60-400A, Max. input 22KW</b>						
a	Rewinding of Stator	No	1				
b	Rewinding of Rotor	No	1				
c	Overhauling & improvement of IR values and replacement of carbon brushes/minor spares	No	1				
<b>(IV) REWINDING OF WELDING TRANSFORMERS</b>							



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1	Oil Cooled, current range 60-400A, 3 phase	No	1				
2	Oil Cooled, current range 25-300A, 3 phase	No	1				
3	Air cooled type, 3 phase, 10-400 Amps,	No	1				
4	Thyristor welding Transformer, current range 400A, 3 Phase	No	1				
5	Thyristor welding Transformer, current range 20A-600A, 3 Phase	No	1				
6	Oil cool, current range 30A, 1 phase	No	1				

(In words Rupees \_\_\_\_\_  
\_\_\_\_\_ only)

Note: The prices offered should be exclusive of GST (%). GST will be paid extra as applicable