



# Marine Electrical Agencies

Ship Repairers, Rewinders of HT, LT and DC Motors, Generators and Transformers

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## WORK AND WARRANTY DETAILS

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We appreciate your decision to get your machine reconditioned through Marine Electrical Agencies. We promise you the quality materials, best workmanship and professional attention to your equipment.

This document provides an overview of our works and warranty details. Please note that individual items might have different clauses and details provided in quotation or pro-forma would apply.

### Testing and Verifications

- The following tests are done for all machines
  - Polarity Test
  - Resistance measurements
  - IR Meggar Test
- LT powered standalone equipment including motors, submersibles and transformers are kick started at workshop before delivery.
- Double bearing generators are tested for no load.
- We only do cold tests for single bearing alternators and HT motors.
- For transformers, we perform equivalent LT voltage and core balance tests.
- DC motors can be tested for up to 400 VDC.

### Job Details

- Alignment, dynamic balancing, painting and vibration analysis are not standard and needs to be requested specifically if needed (chargeable basis).
- Bearing can be sourced from us or supplied by you and will be installed free of cost as part of overhauling or rewinding.

### Job and Warranty Details

- Overhauling consist of dismantling, cleaning, varnishing, baking, assembly and testing. It is considered as maintenance service and we **do not** provide any warranty on overhauling jobs.
- Rewinding job involves replacement of failed winding with new windings. We provide **6 months warranty** from **date of delivery** as per terms given below.

- We stock and source materials including AVR's, Bearings and Seals to serve as a one stop shop. Our warranty does not cover these and in case of warranty claims the same need to be directly claimed from the manufacturer. We only buy materials from authorized dealers and can provide you will proof of purchase, if needed.
- Alignments, bearing replacements, metaling and machining etc. are done for providing a convenient one stop solution. There is not separate warranty provided for these jobs.

## Exclusions

- Failure of winding due to foreign elements including introduction of dust or moisture to the windings are NOT covered by warranty. This is the common cause of failure of alternators during monsoon.
- Failure due to incorrect installation or use including engine over-speeding, single phase load, excessive load, incorrect greasing, balancing or alignment issues or lubrication etc. are NOT covered in warranty.
- Warranty only covers jobs limited to rewinding of the machine. Auxiliary charges including removal, re-fixing and transportation are not covered in warranty.
- Alignment, dynamic balancing, painting and vibration analysis are not standard and needs to be requested specifically if needed.
- Warranty is provided only if the equipment is used as per manufacturer recommendations and the manufacturer service and overhauling schedule is followed.

## Recommendations

- The coastal areas are much more prone to electrical winding failures than other parts of the country and hence specific precautions must be taken to safeguard against failures. *Moisture entry is one of the main reasons for failure in coastal regions of Western India, especially during monsoon seasons.*
- Another common cause of failures in motors and alternators is mechanical imperfections, including incorrect alignment, vibrations due to faulty mounts or installation or unbalanced rotor. These can happen as the machine ages and routine maintenance should be done for the same.
- For alternators we recommend annual overhauling, installation of space heaters, external shelter (in addition to acoustic canopy) and proper installation without opportunity for water ingress as steps to be taken for longer winding life.
- If the machine is not in use regularly, always heat the entire machine using external heaters (not space heaters) for 24 – 48 hours before running.
- Regular health checkups (every 6 months) is recommended for tracking winding fatigue and aging.
- For transformers, dielectric strength of oil should be checked every 6 months and DGA including oil filtering should be done annually, especially in areas with high moisture content.
- Scheduled transformer servicing should preferably be done in the dry months of lower humidity.