

**Bharat Heavy Electricals Limited**  
**Ramachandrapuram : : Hyderabad – 502032**  
**M&S – DIVISION**  
**SCOPE OF WORK (ANNEXURE-I)**

**Tender No.:** M&S/P&S/2022/16, Dt.: 10.06.2022

**Name of Work:** Repair and Recovery of 2T EOT crane in 08 Shop.

Type of Crane: SWL 2T EOT Crane

Make: Shivpra.

Asset No.: 08-1609

The Work includes the following:

1. Disconnecting Electrical supply to the Crane from DSL line. Disconnecting all the cables from panels, removing the cables from cable reeling system and supply cables on each bridge. Removal of all JB's and bringing them down. Removal of main switch.
2. Removal of motor and shifting to repair shop.
3. Removal of thruster brakes for servicing and putting back on crane.
4. Removal of brakes, liner replacement and putting back on crane.
5. Cleaning of crane.
6. Removal of damaged parts of the crane and to be fabricated.
7. Shifting of motors to cranes and alignment and strengthening of base.
8. Strengthening of cranes wherever needed.
9. Wiring of panel.
10. Cabling of cranes and connection to motors and main switch, JB box etc.
11. Servicing /replacement of limit switches with base modification, if required.
12. Oil top up/replacement in gearbox.
13. Servicing/greasing of trolleys of CT /pendant cable.
14. Checking movement of cranes whether all wheels and pulleys are rolling, if found jammed than removal of that and put back in operation.
15. Servicing and greasing of all wheels and pulleys of Cranes.

16. Wire rope lubrication.
17. Earthing system shall be maintained as per clause-35.4 of IS3177:2020 standard.
18. Dismantling the control panels with stands, Resistance boxes with stands and bringing them down, if required. All the removed material is BHEL property. No material shall be allowed to take out of BHEL.
19. New Control panels, JBs, Resistance boxes, Main switch shall be installed/servicing of old on the crane. Proper welding with nut & bolting to be done on the crane.
20. Ensure all the connections are tight and no loose connections are allowed. Proper dressing of cables through ducts/trays shall be made. Proper lugs shall be used while connecting cables.
21. Six (6) months performance guarantee for the project from the date of Prove-out of the project.
22. Safety of the workmen is the sole responsibility of the contractor. Safety requirement (like height permissions) as prescribed by BHEL-Safety dept. need to be adhered to, while carrying out work. The contractor and his/her workmen shall use the necessary safety equipment (like safety belts, helmets etc.) and shall comply with BHEL safety rules.
23. The Vendor shall quote on his own and shall take full responsibility of completing the project successfully.
24. Necessary tools and other equipment like Welding Generator, Cutting set are in the scope of the BHEL. Consumables like Oxygen, DA, cotton waste, electrode rods etc. & Cranes components that are not repairable will be supplied by BHEL.
25. It is the responsibility of the vendor to ensure completeness of material & electricians required for successful execution, completion and Testing of the entire project, complete & trouble free functioning and load test of the crane at SWL.