



# भारत हेवी इलेक्ट्रिकल्स लिमिटेड Bharat Heavy Electricals Limited

## ANNEXURE - I

Date: 03.09.2025

### EOT Cranes AMC Scope of Work

#### EOT Crane 1 details:

Make: Jessop

SWL: 10 tons, modified from cabin operated to pendant operation.

Span: 17 metres CT & 12 metres hoist, Single hook.

Make Year: 1976

#### EOT Crane 2 details:

Make: Crompton greaves

SWL: 25/10 tons

Span: 17 metres CT & 12 metres hoist (Twin individual operated hoist hooks)

Class: II as per IS: 3177 & 807, Pendant operated

Make Year: 1994

#### Scope of Work for Above Mentioned Cranes:

**Safety Check:** Checking and setting of all limit switches, Stoppers, Brakes, Wire rope, Wire rope clamps, Electrical connections, Supply voltage. Levelling of machinery.

**Lubrication:** Hoisting, CT & LT machinery, couplings, bearings, wheel assembly - diesel wash and lubrication. Oil level checking of gear box and brake thruster. Cleaning & Re-greasing of wire rope.

**Electrical:** Checking, maintenance & if necessary replacement of contactors, over load relays, contact kits, electrical connections, motor connections, Resistance box, cables & KBK Systems, Thruster & DC Brake system and other control panel switch gear. LT & CT Bus bar cleaning and maintenance.

**Alignment Checking:** Overhauling of motors & gearbox. Checking alignment for all motions. Tightening of all hardware and Screws.

**Motor Checking:** Hoisting, CT & LT motors checking for proper current, resistance, voltages, Insulation resistance test.

**Control Checking:** pendent push buttons & master controller checking and maintenance, if required

**Festooning and Drag Chain:** Cable trolleys, dock chains' track & cable tray conditions

**Brake Setting:** Setting of brakes, checking of brake motor oil & thruster oil, checking/replace of Liner/brake discs or brake shoes.

**All other work which need attention.**

**Terms of Work:**

1. A "Visit" term used here-in generally denotes the single or multiple times arrival of vendor team (as the situation calls) for the total work completion in an AMC or Break-down schedule as follows:

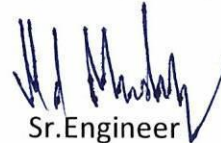
To inspect-analyse the crane maintenance work, identify the issue, recommend spares, clean-dismantle-repair-reassembly of components/machinery, testing and handover of healthy crane to BHEL satisfaction along with submission of invoice.

2. 04 Nos Preventive maintenance (AMC) visits for each individual crane (One visit per crane calculated for every 03 months)
3. 02 Nos complimentary break-down visits for each individual crane shall be considered for the period of one year.

4. All work shall be carried out skilfully in good workmanship manner by trained, competent engineers. Damages to any man and/or machinery shall be borne by the vendor with proper compensation and/or replacement of goods.
5. Work location being at a height of above 12 metres approx. from floor level, all work to be carried out cautiously wearing of proper safety PPE's. Vendor only shall be responsible for any accidental loss.
6. The vendor shall approach to attend the break-down of crane within 48 hours of request from BHEL (Preferably by e-mail).
7. The work shall be attended with minimum time possible.
8. All necessary standard tools-tackles for work and safety PPE, accommodation, food and transportation for service engineers shall be in vendor scope.
9. If necessary, dismantling crane parts (like long travel wheel, cross travel wheel, gear box, motor, rope drum, sheaves, panels, etc.), lowering them to ground level & re-fixing shall be in vendor scope.
10. Spares and consumables shall be in BHEL scope.
11. Spare recommendation list to be provided in advance by vendor during initial inspection of cranes.
12. BHEL standard works contract terms and conditions applicable.

**Payments Terms:**

- 1) Amount on pro-rata basis of AMC value shall be disbursed within 90 days post submission of invoice. Billing is allowed on quarterly basis.
- 2) Break-down visits shall be totally complimentary. Payment shall only be paid for AMC visits.
- 3) Payment shall be released only after work satisfaction clearance from BHEL shop floor.



Sr.Engineer

(Prod./QA/Maint./Mktg.)

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