

### **Scope of work (Inspection and Certification of Cranes) :**

1. Inspection/examination and testing shall be done as per check list given below (IS:14665-2000 part 2 code for cranes (lifting machines) operation & inspection or as per section 29 of the factories law in AP and rule 55-A of AP FACTORIES RULES.
2. Certificates should be issued for each crane inspected.

#### ***Check list :***

1. Inspection of wire rope
  - a) Broken wires/strands
  - b) Stretching/kinks
  - c) Rope anchorage
  - d) Core damage
  - e) Lubrication
2. Hook block
  - a) Condition of pulley
  - b) Hook
  - c) Pulley covers
  - d) Movement of Hook (bearings condition)
3. Pulley covers
4. Brakes : Function of brakes (all motions)
5. LT & CT Wheel : observation of free movement, sound alignment
6. General checking : all drives
7. Display boards of rated capacity (available or not)
8. Limit switches – working or not working to be stated in report.

#### ***Terms :***

1. Inspection should be carried out as per **Protocol** prepared by BHEL personnel.
2. Test certificates should be valid for one year period.
3. Contract will be operated on unit rate only in particular grouping of double hook or single hook.
4. Contractor should provide all kinds of measuring, testing tools and general tools.
5. Contractor must engage sufficient skilled technician
6. Daily report should be submitted to crane section in-charge.
7. Contractor has to meet production in-charges and inspect the machines on as where is condition.
8. Contractor should tie a tag indicating the crane is certified (showing crane details- Asset no, date tested and date valid upto, Testing agency, ..etc) to crane in such a way that it is not easily damaged.

**Safety :** Contractor shall provide personnel protection equipment to all workmen and ensure proper usage at site work and should follow/comply BHEL safety dept. guidelines.