

Scope of Work

Work: Repair/rewinding of AC Induction Motors, etc. in 10RS for the year 2020-21.

- Induction motors of all ranges – about 250 Nos.
- Slip Ring Induction Motors (rotor/stator winding) – around 35 Nos.
- Power Control Transformers/solenoids/toroidal clutches/magnetic clutches around 35 Nos.
- Single phase pedestal/bracket/ceiling fans – around 75 Nos.
- Single phase/3 phase/high frequency portable hand tools – about 150 Nos.

REWINDING procedure

Includes rewinding stator complete and following activities. All materials involved are in the scope of BHEL supply on free of charge.

1. Check for continuity, if found unbalancing following procedures should be followed.
2. Complete cleaning of motor.
3. Dismantling of motor.
4. Service/repairs of all mechanical parts including rotor.
5. Replacing of spare parts wherever necessary.
6. Rewinding/repairs and servicing of stators as per data/as per plate details.
7. Complete varnishing and baking of stator in drying oven (10RS).
8. Complete cleaning of motor.
9. Testing of motor on no load by applying rated/full voltage.

For other items: Portable hand tools/Welding equipment etc.

Identify the problem, clean thoroughly, repair if possible. Replace the required spare parts as per the manufactures instructions.

Note:

1. The party shall undertake repair and rewinding of electrical motors, fan winding, portable electrical hand tool repairs, other miscellaneous items like transformers, welding generators, rectifiers, solenoid coils etc. in 10RS Rewinding Section.
2. Technicians should have sound knowledge and skills capable in rewinding of electrical motors and electrical equipment.
3. The party shall have knowledge/experience in winding works. Those who are having establishment in motor winding can also take part.
4. The party should provide one set of required hand tools like screw drivers, mallet, chisels, hammers, spanners (DE/Ring)/instruments- vernier caliper/digital multimeter/ line testers etc. for day to day work on returnable basis.