

मध्य रेल



मंडल रेल प्रबंधक कार्यालय,

संरक्षा शाखा, नागपुर

रेलवे : 55604

बीएसएनएल :

0712-2560128

दिनांक : 29<sup>th</sup> June, 2024.

संख्या: NGP/SFT.101.Z/Safety Instns.

## **SAFETY INSTRUCTION NO 06/2024-25**

**All Concern Nagpur Division.**

**SUB: - PREVENTION OF LOCO FAILURE AND UNUSUAL IN LOCO DURING RUN IN MONSOON PERIOD.**

To curb the loco failures on line and to avoid abnormal situation during monsoon, follow the following precautions: -

### **A. Precautions For Conventional Ac Electric Locomotives: -**

- Roof joints with super-structure-roof gasket should be in good fettle (condition).
- Proper working of wipers should be ensured.
- Provision of head light dome and protection cap over horns and sand boxes.
- Replacement of Silica gel of transformer and GR breather.
- Paraffin/ petroleum jelly should be applied to the terminals of lead acid battery.
- Check TM inspection covers and terminal blocks cover gasket and replace them, if necessary.
- Ensure proper functioning of water separation and drain cock of the pneumatic pipe system. During monsoon, the pneumatic system should be drained more often to discharge the accumulated water.
- Ensure adequacy transformer/ GR oil levels and also ensure healthy condition of silica gel.
- Drain cock and sampling cock covers of transformers are to be sealed properly to avoid moisture entry.
- Check for any oil leakage from transformer, Tap Changer (GR), MPH circuit, traction converter, oil pump and other accessories & ensure appropriate oil levels in all these equipment between minimum and maximum levels.
- Condition of air filters and OCU gasket to be ensured.
- Filter cleaning as per RDSO guideline shall be carried out.

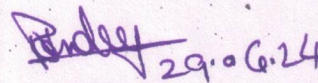


**B. Additional Precautions to Be Taken in Sheds for Three Phase Ac Electric Locomotives: -**

- Replacement of Silica gel of Converter.
- The transformer and converter oil should be tested for dielectric strength in a cycle and filtered if BDV is less than 40 kV.
- Insulation resistance of vital equipment like TM, Auxiliary blowers lying on shop floor to be improved by baking in oven, varnishing and proper covering.
- Checking of Megger value of Harmonic filter Resistance and cleaning if required.
- Battery box covers to be made water tight.
- Ensure proper closure of sand box cover to prevent ingress of water.

**C. Precautions to be taken by Crew: -**

- Be extra cautious and vigilant for damages /obstructions caused due to heavy rain.
- Observe signal indications carefully as signals are difficult to read due to heavy rain.
- Keep the train under full control so that train can be stopped immediately in case of obstructions or danger.
- While taking over the charge, ensure that sand boxes have sufficient quantity of dry sand, sanders are functional and filled with dry sand.
- Ensure drainage of moisture from reservoirs to avoid loco failure in this weather.
- Check caution order for SR 30 KMPH or less in stall prone zone, inform TLC/SCOR well in advance for providing Banker engine as may be required.
- Inform TLC about any defect/shortage like roof leakage, side shutters and window glass and also record it in the loco log book.
- Pay special attention while transiting tunnels, through cuttings or bridges and drive with continuous whistle blowing and be cautious.
- Sand filling in sanders at NGP, BTBR, BPQ, GGS, MJRI & AMLA and TEO & DHQ (in Banker locos) will be done by regularly.
- Once the load stalls in gradient and the wheels start slipping, do not try to pull the load, as it may cause rail burn / wheel skids, immediately ask for Assisting engine.

  
(V. K. PANDEY)  
SR DSO/NGP

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