

Preventive Maintenance Guidelines

General Principles

- **Correct voltage supply** is critical for optimal functionality and trouble free life of equipment.
- **Good quality wiring, sockets, plugs and stabilizers** ensures regulated voltage to ILR/DFs. Stabilizer must be functional and output voltage should be close to 220 - 230 volts.
- There should be a **dedicated stabilizer** for each equipment.
- **Validate thermometer** once every 12 months or with every change of thermometer/Digital Temp Controller.
- **Maintain Temperature Logbook** for each Cold Chain Equipment using functional thermometer or digital devices provided under the national programme.
- **Keep 10 cms distance** between ILR and walls or between two equipments.
- Outer surface of ILR/ DFs should be clean. This will allow faster heat dissipation from condenser coil.
- The ILR/DFs should be placed on plastic or wooden stands.
- Hygiene is key to avoid AEFI by ensuring clean septum cap. **Ensure cleanliness of vaccine and Icepack chambers**, as well as Coldbox, vaccine carriers and ice-packs.
- Only UIP vaccines & diluents should be kept inside ILR, and Ice packs in the deep freezers.
- For ILR: Thermostat should be configured to +5 C, so that the range of **+4°C to +6°C** is maintained.
- For DF: Thermostat should be configured to -19 C, so that the range of **-18°C to -20°C** is maintained.
- Rubber gasket of the lid needs to be checked for gaps.
- Latch & hinges should be checked for proper functioning, to **ensure no gap**.
- Check location of thermometer. It should be positioned **along with the vaccines**.
- Check if digital display is functional.
- Check the **order of vaccine storage**. Ensure that they are stacked in the basket, such that air movement is possible.
- Check if **Ice-packs are frozen correctly** and they are not deformed. Ensure that ice-packs are stacked to allow air movement.
- Check if condenser fan blades are clean, to **save electricity**.
- Check vaccines for **legible label/expiry & VVM status**.
- **Defrost** if there is any ice inside the ILR or the ice-lining is more than 5 mm in DF.
- **Clean** the drain plug.

