

HT/LT Safety Equipment's



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1. Introduction

- Electricity is safe to use but may become dangerous in careless hand. It may cause fire, fatal accident or non-fatal accident so it is very important that how to recognize hazard and work safety around electricity.
- Specific Equipment are designed for safety purpose



2. Electrical Insulation Mat

Electrical insulation rubber Mat is used in front of LT panels and HT panels and designed to protect from electrical shock to operator during maintenance.

Rubber mat have must these properties

- High insulation resistance
- Fire retardant
- High dialectical strength
- Moisture proof
- Not affected by transformer oil, Acid etc.



3. Insulating Gloves

- It offer personal hand protection during working live in electrical system.

Types of class according to voltage level

- Class 00- Up to 500V
- Class 0- Up to 1000V
- Class 1- Up to 7500V
- Class 2- Up to 17000V
- Class 3- Up to 26500V
- Class 4- Up to 36000V



4. Fire bucket

- A bucket filled with sand or water to prevent the extinguish fire.
- Always should keep in LT/HT panels.
- They are preferred method for fighting small fires in certain location where there is a possibility of small catching fire like electrical room.



5. Fire extinguisher cylinder for electrical fire

- Electrical fire is different type of fire that don't need to be remove by water or any conducting material that it need different types of fire extinguisher
- It need Fire extinguisher C type and substance used in this material like **mono ammonium phosphate**, **potassium chloride** and **CO2** but CO2 would not be preferred due to environmental.



6. Lock out and Tag out Equipment

- It is employed in industry for ensuring safety during maintenance.
- Lock out is an isolation of energy from system like machine, particular equipment which physically the lock system in safe mode.
- Tag out is a labelling process that is used for attaching information tag.



7. Portable Earthing Rod

- Portable Earthing Equipment are safety equipment designed for discharging & grounding of dead equipment
- It is used during repairing or working on live part on HT voltage

Earthing kit has components

- Line end clamp
- Portable earthing lead
- Earth end clamp
- Trifurcating plate
- Connecting hardware
- Insulating stick



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