

Electrical Safety Equipment



HVTI Manufactures & Supplies Insulated Sticks in accordance to IEC 855 (Foam Filled) and IEC 61235 (Hollow) are used with our various Safety Equipment and Live Line Working Equipment. The Insulated sticks conforms to dielectric strength of 100KV/feet. These are available in various configurations and diameters. The length of the sticks can be easily extended by connecting one after another using convenient snap fitting mechanism. All the safety equipment have been type tested as per various IEC/IS standards to ensure the reliability and safety in field.



Insulated Sticks

Insulated Sticks

- Available in wide range for voltages from 1KV to 765KV in
- Lengths available from 500mm to 9 Meters
- Add on Type and Telescopic Configurations
- Hollow Type as per IEC 61235 and Foam Filled Type as per IEC 60855 available
- Universal Sun Rise Connector available

Discharge Rods and Grounding Equipment

These are used to discharge dead systems and installations having limited fault levels. These are highly efficient for Discharging electrical equipment having high Capacitances like Capacitor Banks and Cables and equipment having high Inductances like Reactors and Transformers. Controlled Discharging is achieved using our special Non Inductive Carbon Discharge Resistances. Discharge Rods are available for voltage ranges from 11KV to 765KV.

The Discharge Rods/ Portable Earthing Equipment offered by us are Type Tested in accordance to Standards IEC 61235, IEC 61230, IEC 60855, IEC 60060, IS 16622, IS 13770, IS 2071

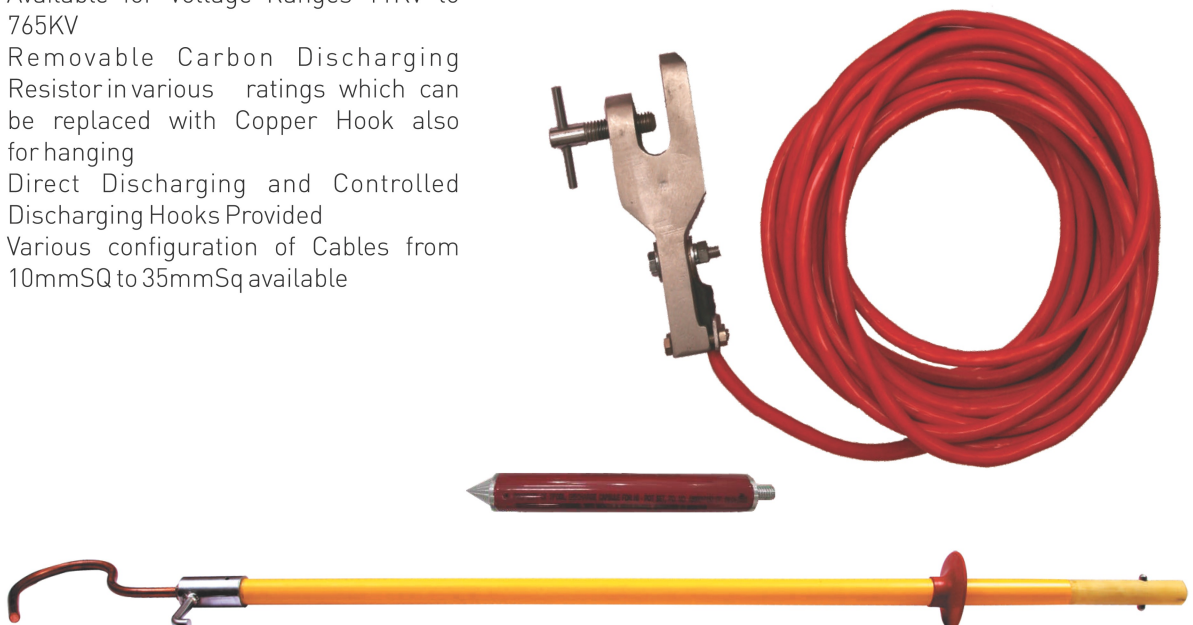
Soft Discharge Rods with Built in Carbon Discharge Resistor HVTI-DR Series

- Available for Voltage Ranges 11KV, 33KV, 66KV & 100KV
- Inbuilt Carbon Discharging Resistor in various ratings
- Direct Discharging and Controlled Discharging Hooks Provided
- Various configuration of Cables from 6mmSq to 35mmSq available



Soft Discharge Rods for with Removable Discharge Resistor TP-DR Series

- Available for Voltage Ranges 11KV to 765KV
- Removable Carbon Discharging Resistor in various ratings which can be replaced with Copper Hook also for hanging
- Direct Discharging and Controlled Discharging Hooks Provided
- Various configuration of Cables from 10mmSq to 35mmSq available



Portable Earthing Equipment (Discharge Rod) for High Fault Levels : TP-PEE Series

Portable Earthing Equipment also called as Discharge Rods are safety equipment designed for discharging & grounding of dead equipment. The system is designed for high fault levels from 4.7KA to 40KA per second or higher so that even if during shut downs, when technicians are on the job, by mistake if the supply/feeder is switched ON, the Portable Earthing Equipment saves human life as well as equipment under maintenance. Special Line End & Earth End Clamps along with operating socket and earthing lead are used for this equipment. The Line End Clamps, Earth End Clamps & operating sockets are made of very special aluminium alloys which can withstand high short circuit currents. Portable Earthing Equipment is Type Tested as per IEC 61230 / IEC 61235 / IEC60855. The earthing cables are tested for short circuit ratings as per IEC / IS standards

Insulated sticks are available in lengths from 1 m to 7.75m in Add on Type or Telescopic configurations

Special Flexible Grounding Cables are available from 10mmSq to 95mmSq. Copper or upto 150mmSQ Aluminium, The Earthing Cables are available in Transparent or bright coloured insulation. The Earthing Cables conforms to IEC 61230

Line End Clamps

Line End Clamps are available in various designs and configurations for clamping on different types of ACSR Conductors and Tubular Bus Bars. These are suitable for fault currents upto 40KA/1 sec



6-28mm



90 to 120mm



13-40mm



8-35mm



19-65mm
& 15-90mm



Special Earthing Cables

We offer a broad range of special grounding cables. Cables are available from 10mmSQ to 95mmSQ Copper Flexible and from 25mmSQ to 150mmSQ Aluminum flexible. This category of Grounding cables are designed to withstand high fault levels from 4KA to 40KA. Available in Yellow/Green, Transparent and Orange colours. The cables are designed and type tested in accordance to IEC 61230

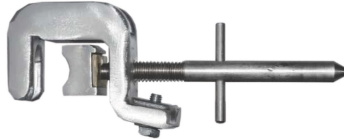


Earth End Clamps

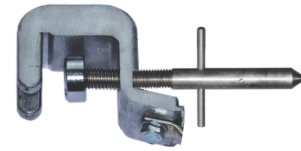
Earth End Clamps are available in various designs and configurations for clamping on Earth Bus Bars, Transmission Tower Structures, Tapered Bars and also for Fixed Ball Points. Suitable for clamping thickness upto 30mm and fault currents upto 40KA/1 sec



EE-30-F
With Spike End



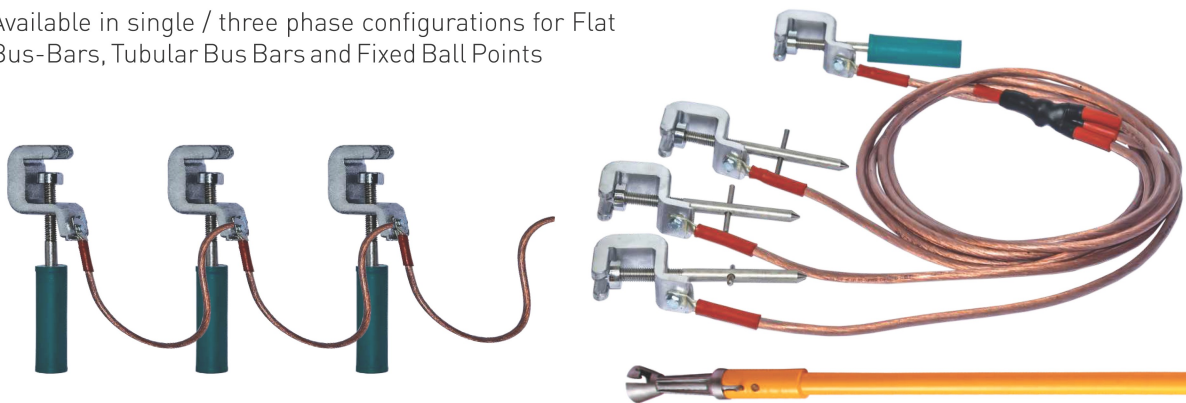
EE-30-R
With Swivel End



EE-30-B
With Ball Point End

Low Voltage Discharge Rods

Available in single / three phase configurations for Flat Bus-Bars, Tubular Bus Bars and Fixed Ball Points



Portable Earthing Equipment (Discharge Rod) – 3 Phase Type with 3 sets of Removable Line End Clamps/Cables

In this configuration clamps are applied from remote just by turning the insulated operating pole and the operator never comes in contact with any conductor, so it is highly safe system. Using the common operating pole, clamps are applied on each phase one by one. On top of Common Operating Pole an operating socket is provided using which one by one the Line End Clamps are applied and removed



Portable Earthing Equipment (Discharge Rod) 1 Phase Type with Line End Clamps / Cables Permanently Fitted on the insulated Stick

In this configuration the Line End Clamp is permanently mounted on the stick and cannot be removed. Therefore for Grounding a 3 Phase system 3 sets of Equipment with individual Clamps and Sticks would be needed

