



## **INSTRUCTION MANUAL**

### **TECHNICAL SPECIFICATION**

“CIE” make D.C. High Voltage Test Set is suitable for testing electrical insulation of condensers, electric cables, PIV of diodes and many other items like transformers, motors, switch gear products etc. The set is particularly applicable for testing electrical insulation at site where portability is vital.

### **SPECIFICATION**

<b>INPUT</b>	:	230 volts, 50HZ, Single phase AC.
<b>OUTPUT</b>	:	Continuously variable from zero to 70 KV D.C.
<b>CAPACITY</b>	:	Maximum permissible transient current is 5 mA.
<b>DUTY</b>	:	Intermittent i.e. 5 Mins. ‘ON’ & 10 Mins. ‘OFF’
<b>UNIT</b>	:	Three i) Control Unit, ii) HV Transformer Unit, iii) DC HV RECTIFIER Unit

### **OPERATION INSTRUCTION**

1. Connect the units earthed properly, it is very important.
2. Inter connect the Three units properly as given diagram & nomenclature.
3. Connect the sample under test between earth and H.V. output terminal.
4. Connect the main power supply cord to the nearest power supply (230V A.C.)
5. Make the set ‘ON’ by Mains ‘ON’ switch, which is indicated by glowing ‘Mains ON’ indicating lamp.
6. Bring back the variac to zero position. H.V. circuit cannot energized unless the variac is first returned to zero position. It is called zero interlocking.
7. Keep the over load tripping switch at required position ( 1mA or 5mA). Don’t disturb this switch under H.V. raised condition.
8. After making variac zero position press the ‘HT ON’ green push switch to energized the H.T. circuit. It is indicated by H.T. Lamp.
9. After making H.T. circuit ‘ON’ slowly increase the output voltage, which is shown by the set KV meter upto test voltage. If the sample under test breaks below the test voltage the H.T. circuit automatically tripped off.
10. If any emergency to require ‘H.T.’ circuit ‘OFF’ then press red ‘H.T. OFF’ Push switch.
11. A discharge rod will be provided with the set to discharge sample under test after H.V. test.

### **CAUTION**

- Make the units proper EARTH & Inter connect the three units properly.
- Don’t change tripping switch position during H.T. circuit ‘ON’.
- Don’t touch the H.V. bushing during H.T. circuit ‘ON’.