

6) Dew point meter:

The instrument must be suitable to measure dew point of following gases;

- i) SF6 gas used (as insulation) in GIS (up to a pressure of 8 Bar)
- ii) N2 gas (a) In dry condition (dew pt. up to -55°C) stored in cylinders. (b) In wet condition, up to a pressure below one bar filled in a power transformer (or in a current transformer) prior to filling of oil.
- iii) Dry Air

The instrument shall be suitable to measure the dew point of Air, SF6 and N2 either at atmospheric pressure or at working pressure of gas filled in equipment and a suitable table/chart shall be supplied, if required, to convert dew point measured at atmospheric pressure to that at other pressures (up to 8 bar).

If instrument is suitable for low-pressure sample, the pressure regulating attachment shall also be supplied as part of the instrument.

If sensor of dew pt. meter is suitable for low-pressure sample only, it shall be suitably protected against entry of high-pressure gas to avoid its damage.

The portable/desktop model of the instrument is desired.

Dew point measuring range: -60°C to 0°C

Measuring Accuracy $\pm 3^{\circ}\text{C}$

Input pressure upto Eight (08) bar

Display Digital – LCD/Red LED

Power Supply Input:

Mains (AC supply OR DC supply) OR Battery/cell operated

If AC supply operated, it shall be suitable for: 240 Volts ($\pm 10\%$) 50 Hz