

Technical Specification of 4½ Digit Micro Ohm Meter

1. Scope

Supply, delivery, training of portable digital Micro Ohm Meter suitable for accurate measurement of very low resistance electrical components. The offer for supply shall include all accessories even though not specifically mentioned but which are essential for complete & satisfactory operation. The Instrument shall be portable & light weight.

2. Essential Technical Requirements

Sl. No.	Parameter	Required Specification
1.	Instrument type	Fully Automatic Digital Micro Ohm Meter / Low Resistance Ohmmeter
2.	Reading	Digital Direct Reading to be used for DC resistance measurement of electrical equipment
3.	Measurement Range	1.999 $\mu\Omega$ to 19.99 K Ω or better
4.	Display	Minimum 4½ digit digital display, LED/LCD, clearly readable in field/indoor condition with
5.	Minimum resolution	0.1 $\mu\Omega$
6.	Accuracy	$\pm 0.5\%$ of reading or better
7.	Test current	Minimum 1 A on lowest range or better for better low-resistance stability
8.	Measuring mode	Normal/continuous measurement/pulse mode
9.	Zero adjustment	Auto-zero / manual zero / lead compensation facility shall be provided
10.	Data interface	RS-232 / USB / Bluetooth / equivalent PC interface
11.	Power supply	230V $\pm 10\%$ AC, 50 Hz single phase mains as well as battery operated
12.	Operating temperature	-4°C to 50°C or wider
13.	Enclosure	The enclosure shall be IP54 compliant
14.	Weight	Weight should be compact and lightweight for easy portability
15.	Safety	Instrument shall have adequate input protection, fuse protection and safety design suitable for electrical testing.
16.	Test Lead	Test Leads shall be atleast 15 meter long with heavy duty Crocodile Clip and suitable clamps
17.	Accessories	Test Leads, Earthing Cable, Mains Cord, Carrying Case, Spare fuses, Suitable Software, Operation Manual and any other required accessories

3. Calibration:

Certificate of calibration shall have to be supplied along with instrument from a NABL accredited laboratory/Govt. Test House. However, the supplier shall be responsible for periodic calibration support for at least 5 years from the date of supply.

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4. Guarantee:

The instrument shall have guarantee of 5 years from the date of receipt of the instrument.

5. Training:

Supplier shall provide onsite training to WBSEDCL personnel.



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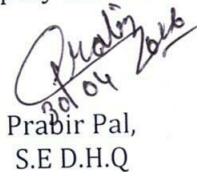


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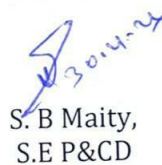
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