

4 ½ digit handheld Digital Multimeter specifications:

E&ILAB T002 Rev. 00

Clause No.	Item	Description for BHEL requirement	Specified/Offered by supplier	Deviation
1		Scope: 4 ½ digit hand held digital multimeter.		
The scope shall include the following features.				
2		Voltage measurement: 0- 1000V DC & AC (RMS).		
3		Current measurement: 0-10A DC & AC(RMS).		
4		Resistance measurement: 0 to 50MΩ having minimum 5 ranges.		
5	Accuracy:	i)DC voltage: range upto accuracy(%rdg +digits) 50mv 0.05+20 500mV , 5V 0.05+5 50V, 500V, 1000V 0.05+2		
		ii)DC Current: Range upto accuracy(%rdg +digits) 500μA,5000μA 0.2+5 50mA, 500mA 0.2+5 5A, 10A 0.6+10		
		iii) AC voltage: 0.7% of reading+30dgts for minimum 5 different ranges.		
		IV) AC Current: 1% of reading+20dgts for minimum 5 different ranges.		
		V) Resistance: 1.2% at highest range & 0.2% at lowest range.		

6	Resolution:	i) AC&DC Voltage: 0.001mV at lowest range and 0.1V at highest range.		
		ii) AC&DC Current: 0.01 μ A at lowest range and 0.001A at highest range.		
		iii) Resistance: 0.01 Ω at lowest range to 0.001M Ω at highest range.		
7		Display: Not less than 20000 count LED/LCD display		
8		Protection: Compliant to IP 54		
9		4 point calibration certificate traceable to national/international standards		
10		Operating temperature: -5°C to 45°C		
11		Accessories essential: One set of Test probes of fine tip and another set of measuring leads with Crocodile Clips shall be provided.		
12		Protective case for easy carrying of the instrument.		
13		Chargeable battery with charger or AA cell option or both are preferable.		
14		Acceptance of Equipment: The instrument shall be accepted by BHEL upon satisfactory demonstration of all its features and performance at BHEL.		
15		Suppliers who have supplied earlier of the same range and accuracy in the last 2 years only should quote. a).Supplier shall indicate the contact details of earlier customer b).Supplier shall enclose P.O. copy of the earlier customer.		