

Laboratory **Tescals Calibration Laboratories, Door No. 3/12, Somasundaramoorthy Avenue, SakthiNagar, Porur, Chennai, Tamil Nadu**

Accreditation Standard **ISO/IEC 17025: 2005**

Discipline **Electro-Technical Calibration** **Issue Date** **11.09.2015**

Certificate Number **C-1261** **Valid Until** **10.09.2017**

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
<u>SOURCE</u>			
1. DC VOLTAGE^{\$}	10mV to 100mV	0.33% to 0.06%	Using MFC Meco 90DQ by Direct Method
	100mV to 100V	0.06% to 0.05%	
	100V to 1000V	0.05% to 0.04%	
2. AC VOLTAGE^{\$}	50Hz		Using MFC Meco 90DQ by Direct Method
	10mV to 100mV	0.81% to 0.19%	
	100mV to 100V	0.19%	
	100V to 1000V	0.49%	
3. DC CURRENT^{\$}	100µA to 1mA	0.21% to 0.06%	Using MFC Meco 90DQ by Direct Method
	1mA to 100mA	0.06%	
	100mA to 1A	0.06% to 0.17%	
	1A to 10A	0.17% to 0.13%	
4. AC CURRENT^{\$}	50Hz		Using MFC Meco 90DQ by Direct Method
	100µA to 1mA	3.06% to 0.37%	
	1mA to 100mA	0.37% to 0.47%	
	100mA to 1A	0.47% to 0.51%	
	1A to 10A	0.51% to 0.42%	
5. RESISTANCE^{\$} (2 WIRE METHOD)	1Ω to 10Ω	0.76% to 0.10%	Using DRB, Vaiseshika 7400 By Direct Method
	10Ω to 100kΩ	0.1% to 0.07%	
	0.5MΩ	2.78%	Using Standard Resistance Box ST-RES-BOX by Direct Method
	1MΩ	2.78%	
	2MΩ	2.83%	
	5MΩ	2.32%	
	10MΩ	2.31%	

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Convenor

Avijit Das
Program Manager

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
	20M Ω	2.31%	
	50M Ω	2.39%	
	100M Ω	2.39%	
<u>MEASURE</u>			
1. DC VOLTAGE ^{\$}	10 mV to 10 V	0.6% to 0.10%	Using DMM, Keysight-34461A by Direct Method
	10V to 1000V	0.01%	
	1kV to 10kV	7.97% to 6.56%	Using HV probe Fluke 80k40 with Fluke DMM by Direct Method
	10kV to 25kV	6.56% to 4.18%	
2. AC VOLTAGE ^{\$}	50Hz 20mV to 750V	0.32% to 0.23%	Using DMM, Keysight-34461A by Direct Method
	28 kV	10.95% to 8.78%	
3. DC CURRENT ^{\$}	0.2mA to 100mA	0.5%	Using DMM, Keysight-34461A by Direct Method
	100mA to 1A	0.52%	
	1A to 10A	0.52% to 0.18%	
4. AC CURRENT ^{\$}	50Hz 20mA to 10A	0.69% to 0.62%	Using DMM, Keysight-34461A by Direct Method
5. RESISTANCE ^{\$} (2 WIRE METHOD)	1 Ω to 1M Ω	0.5% to 0.14%	Using DMM, Keysight-34461A by Direct Method
	1M Ω to 100M Ω	0.14% to 1.11%	

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
6. TIMER ^{\$}	10 sec to 7200 sec	0.34 sec to 4.2 sec	Using Stop Watch Racer by Direct Method

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

^{\$}Only in Permanent Laboratory

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