National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG & CALIBRATION SERVICES PRIVATE LIMITED, B20, SAUJANYA SOCIETY, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 26/01/2025 to 25/01/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz)	AC Current @ 45 Hz to 1 kHz	Using MFC and 50 Turn Coil by Direct method	20 A to 1000 A	4.5 % to 0.52 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz)	AC Current @ 45 Hz to 1 kHz	Using 6½ DMM by Direct method	30 µA to 10 A	0.7 % to 0.3 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz)	AC Current @ 50 Hz to 1 kHz	Using MFC by Direct method	30 µA to 10 A	3.2 % to 0.72 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz)	AC Voltage @ 45 Hz to 1 kHz	Using 6½ DMM by Direct method	1 mV to 1000 V	4.78 % to 0.3 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz)	AC Voltage @ 45 Hz to 1 kHz	Using MFC by Direct method	1 mV to 1000 V	9.9 % to 0.2 %

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6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz)	Transformer Turns Ratio	Using 6½ DMM (Two DMM used) & Turns Ratio Calibrator by V/V Method	11 to 1100	0.3 % to 1.4 %
7	ELECTRO-TECHNICAL-DIRECT CURRENT	DC Current	Using 6½ DMM by Direct method	1 mA to 10 A	0.36 % to 0.22 %
8	ELECTRO-TECHNICAL-DIRECT CURRENT	DC Current	Using Multifunction Calibrator by Direct method	1 mA to 10 A	1.48 % to 0.63 %
9	ELECTRO-TECHNICAL-DIRECT CURRENT	DC Current	Using MFC and 50 Turn Coil by Direct method	20 A to 1000 A	4.503 % to 0.49 %
10	ELECTRO-TECHNICAL-DIRECT CURRENT	DC Voltage	Using MFC by Direct method	1 mV to 1000 V	6.22 % to 0.064 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT	DC Voltage	Using 6½ DMM by Direct method	1 mV to 1000 V	0.63 % to 0.01 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT	Resistance (2 Wire)	Using 6½ DMM by Direct method	1 Mohm to 19 Mohm	0.02 % to 2.97 %

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13	ELECTRO-TECHNICAL-DIRECT CURRENT	Resistance (2 Wire)	Using MFC by Direct method	1 ohm to 100 kohm	6.56 % to 0.084 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT	Resistance (2 Wire)	Using Multifunction Calibrator by Direct method	100 kohm to 190 Mohm	0.084 % to 1.21 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT	Resistance (4 Wire)	Using 6½ DMM by Direct method	1 ohm to 1 Mohm	0.7 % to 0.02 %
16	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION	J type Thermocouple	Using 6½ DMM by Direct method	25 °C to 1000 °C	0.6 °C
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION	J type Thermocouple	Using Multifunction Calibrator by Direct method	25 °C to 1300 °C	1.32°C
18	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION	K type Thermocouple	Using 6½ DMM by Direct method	200 °C to 1300 °C	0.6 °C
19	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION	K type Thermocouple	Using Multifunction Calibrator by Direct method	25 °C to 1300 °C	1.32 °C

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20	ELECTRO-TECHNICAL-TIME & FREQUENCY	Frequency	Using DMM by Direct method	45 Hz to 1 kHz	0.22 % to 0.10 %
21	ELECTRO-TECHNICAL-TIME & FREQUENCY	Frequency @ 1 V	Using Multifunction Calibrator by Direct method	45 Hz to 1000 Hz	0.13 % to 0.015 %
22	ELECTRO-TECHNICAL-TIME & FREQUENCY	Time	Using Standard Time Calibrator by Comparison method	1 hr to 24 hr	3.5 s to 50.16 s

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz)	AC Current @ 45 Hz to 1 kHz	Using MFC and 50 Turn Coil by Direct method	20 A to 1000 A	4.5 % to 0.52 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz)	AC Current @ 50 Hz to 1 kHz	Using MFC by Direct method	30 µA to 10 A	3.2 % to 0.72 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz)	AC High Voltage @ 50 Hz	Using HV Divider with DU by direct method	1 kV to 100 kV	3.5 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz)	AC Voltage @ 45 Hz to 1 kHz	Using 6½ DMM by Direct method	1 mV to 1000 V	4.78 % to 0.3 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz)	AC Voltage @ 45 Hz to 1 kHz	Using MFC by Direct method	1 mV to 1000 V	9.9 % to 0.2 %
6	ELECTRO-TECHNICAL-DIRECT CURRENT	DC Current	Using 6½ DMM by Direct method	1 mA to 10 A	0.36 % to 0.22 %

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7	ELECTRO-TECHNICAL-DIRECT CURRENT	DC Current	Using Multifunction Calibrator by Direct method	1 mA to 10 A	1.48 % to 0.63 %
8	ELECTRO-TECHNICAL-DIRECT CURRENT	DC Current	Using MFC and 50 Turn Coil by Direct method	20 A to 1000 A	4.503 % to 0.49 %
9	ELECTRO-TECHNICAL-DIRECT CURRENT	DC Voltage	Using MFC by Direct method	1 mV to 1000 V	6.22 % to 0.064 %
10	ELECTRO-TECHNICAL-DIRECT CURRENT	DC Voltage	Using 6½ DMM by Direct method	1 mV to 1000 V	0.63 % to 0.01 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT	Resistance (2 Wire)	Using 6½ DMM by Direct method	1 Mohm to 19 Mohm	0.02 % to 2.97 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT	Resistance (2 Wire)	Using MFC by Direct method	1 ohm to 100 kohm	6.56 % to 0.084 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT	Resistance (2 Wire)	Using Multifunction Calibrator by Direct method	100 kohm to 190 Mohm	0.084 % to 1.21 %

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15	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION	J type Thermocouple	Using 6½ DMM by Direct method	25 °C to 1000 °C	0.6 °C
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19	ELECTRO-TECHNICAL-TIME & FREQUENCY	Frequency	Using DMM by Direct method	45 Hz to 1 kHz	0.22 % to 0.10 %
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21	ELECTRO-TECHNICAL-TIME & FREQUENCY	Time	Using Standard Time Calibrator by Comparison method	1 hr to 24 hr	3.5 s to 50.16 s

*** CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.**