National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory Name	PRISM CALIBRATION CENTRE, GF-101,F/101,101 A,B, TF-85 TO101 RUDRAKSH COMPLEX-II,, AHMEDABAD, --SELECT DISTRICT--, GUJARAT , INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2480	Page No. :	1 / 60
Validity	26/11/2019 to 25/11/2021	Last Amended on	05/12/2019

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
Permanent Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Current @ 50Hz	0.1 mA to 1 mA	1.0% to 0.3%	Using 6½ Digit Multimeter By Direct/Comparison Method
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Current @ 50Hz	1 A to 10 A	0.30% to 0.28%	Using 6½ Digit Multimeter By Direct/Comparison Method
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Current @ 50Hz	1 mA to 100 mA	0.3% to 0.19%	Using 6½ Digit Multimeter By Direct/Comparison Method
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Current @ 50Hz	100 mA to 1 A	0.19% to 0.30%	Using 6½ Digit Multimeter By Direct/Comparison Method
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C High Voltage @ 50 Hz	1 kV to 5 kV	7.4% to 4.4%	Using HV Probe with DMM By Direct Method
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Voltage @ 50Hz	1 V to 1000 V	0.12% to 0.11%	Using 6½ Digit Multimeter By Direct/Comparison Method

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7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	A.C Voltage @ 50Hz	10 mV to 1 V	0.09% to 0.12%	Using 6½ Digit Multimeter By Direct/Comparison Method
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	1 Phase/3 Phase Energy@ 50 Hz(50 to 250 V)(1A to 5A) (-0.5 to 0.5 pF)	50 Wh to 3750 Wh	0.11% to 0.44%	Using 3 Phase Power/Energy Calibrator By Direct Method
9	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	1 Phase/3 Phase Power@ 50 Hz(50 to 250 V)(1A to 5A) (-0.5 to 0.5 pF)	50 W to 3750 W	0.34% to 0.21%	Using 3 Phase Power/Energy Calibrator By Direct Method
10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	A.C Current @ 50Hz	1 mA to 100 mA	0.68% to 0.61%	Using Multifunction Calibrator By Direct Method
11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	A.C Current @ 50Hz	10 A to 800 A	1.55% to 1.27%	Using Multifunction Calibrator With Current Coil By Direct Method
12	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	A.C Current @ 50Hz	100 mA to 10 A	0.61% to 0.51%	Using Multifunction Calibrator By Direct Method

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13	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	A.C Voltage @ 50Hz	10 mV to 100 mV	1.37 % to 0.52%	Using Multifunction Calibrator By Direct Method
14	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	A.C Voltage @ 50Hz	100 mV to 1000 V	0.51% to 0.51%	Using Multifunction Calibrator By Direct Method
15	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Power Factor @ 50 Hz(50 to 250 V)(0.1 to 5A)	-0.5 pF to 0.5 pF	0.012pF to 0.012pF	Using 3 Phase Power/Energy Calibrator By Direct Method
16	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C High Voltage	1 kV to 5 kV	4.6% to 4.6%	Using HV Probe with DMM By Direct Method
17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Current	0.1 mA to 1 mA	1.01% to 0.06%	Using 6½ Digit Multimeter By Direct/Comparison Method
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Current	1 A to 10 A	0.04% to 0.19%	Using 6½ Digit Multimeter By Direct/Comparison Method
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Current	1 mA to 100 mA	0.06% to 0.07%	Using 6½ Digit Multimeter By Direct/Comparison Method

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20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Current	100 mA to 1 A	0.07% to 0.2%	Using 6½ Digit Multimeter By Direct/Comparison Method
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Voltage	1 mV to 100 mV	0.70% to 0.012%	Using 6½ Digit Multimeter By Direct/Comparison Method
22	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Voltage	1 V to 1000 V	0.20% to 0.041%	Using 6½ Digit Multimeter By Direct/Comparison Method
23	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	D.C Voltage	100 mV to 1 V	0.01% to 0.20%	Using 6½ Digit Multimeter By Direct/Comparison Method
24	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	1 to 1	0.70% to 2.32%	Using 6½ Digit Multimeter By Direct/Comparison Method
25	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Current	0.1 mA to 24 mA	0.80% to 0.024%	Using Advance Modular Calibrator/Multifunction Calibrator By Direct Method
26	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Current	10 A to 800 A	1.48% to 0.51%	Using Multifunction Calibrator With Current Coil By Direct Method
27	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Current	100 mA to 10 A	0.61% to 0.38%	Using Multifunction Calibrator By Direct Method

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28	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Current	24 mA to 100 mA	0.68% to 0.61%	Using Multifunction Calibrator By Direct Method
29	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	to 100 mohm	0.14%	Using Discerete Standard Resistor By Direct Method
30	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	to 1000 mohm	0.12%	Using Discerete Standard Resistor By Direct Method
31	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	to 10 mohm	0.14%	Using Discerete Standard Resistor By Direct Method
32	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	to 1 mohm	to 0.14%	Using Discerete Standard Resistor By Direct Method
33	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	to 10 µohm	to 2.26%	Using Discerete Standard Resistor By Direct Method
34	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	to 50 µohm	to 0.60 %	Using Discerete Standard Resistor By Direct Method
35	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Resistance (Discrete)	to 100 **µohm**	to 0.55%	Using Discerete Standard Resistor By Direct Method
36	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Voltage	10 mV to 100 mV	1.17% to 0.19%	Using Multifunction Calibrator By Direct Method

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37	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	D.C Voltage	100 mV to 1000 V	0.19% to 0.12%	Using Multifunction Calibrator By Direct Method
38	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	1 to 1	1.40% to 2.65%	Using Decade Resistance Box By Direct Method
39	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	1 to 100	2.65% to 2.84%	Using High Resistance Jig By Direct Method
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type thermocouple	600 °C to 1800 °C	2.47°C to 1.47°C	Using Advance Modular Calibrator/Universal Calibrator By Direct Method
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type thermocouple	-100 °C to 1200 °C	0.76°C to 0.80°C	Using Advance Modular Calibrator/Universal Calibrator By Direct Method
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type thermocouple	-50 °C to 1300 °C	0.76°C to 0.93°C	Using Advance Modular Calibrator/Universal Calibrator By Direct Method
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type thermocouple	-50 °C to 1300 °C	0.60°C to 0.60°C	Using Advance Modular Calibrator/Universal Calibrator By Direct Method

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44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type thermocouple	360 °C to 1700 °C	1.46°C to 1.47°C	Using Advance Modular Calibrator/Universal Calibrator By Direct Method
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD type	-200 °C to 800 °C	0.16°C to 0.33°C	Using Advance Modular Calibrator/Universal Calibrator By Direct Method
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type thermocouple	300 °C to 1700 °C	1.95°C to 1.47°C	Using Advance Modular Calibrator/Universal Calibrator By Direct Method
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type thermocouple	-50 °C to 400 °C	0.76°C to 0.77°C	Using Advance Modular Calibrator/Universal Calibrator By Direct Method
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	600 °C to 1800 °C	2.47°C to 2.48°C	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	-100 °C to 1200 °C	0.77°C to 0.77°C	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method

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50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	-50 °C to 1300 °C	0.77°C to 0.59°C	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	-50 °C to 1300 °C	0.60°C to 0.60°C	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	360 °C to 1700 °C	1.46°C to 1.46°C	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Type	-200 °C to 800 °C	0.28°C to 0.57°C	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	300 °C to 1700 °C	1.46°C to 1.46 °C	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method

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55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	-50 °C to 400 °C	0.76°C to 0.77°C	Using Advance Modular Calibrator/Universal Calibrator/Process Source By Direct Method
56	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Digital Timer,Time Totalizer,Digital Stopwatch,Totalizer,Programmable Timer.	1 hr to 24 hr	1.30Sec to 5.18Sec	Using Digital Time Interval Meter By Direct/Comparison Method
57	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Digital Timer,Time Totalizer,Digital Stopwatch,Totalizer,Programmable Timer.	2 mSec to 1 hr	0.013 Sec to 1.30Sec	Using Digital Time Interval Meter By Direct/Comparison Method
58	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	10 Hz to 50 kHz	0.04% to 0.03%	Using 6½ Digit Multimeter By Direct/Comparison Method
59	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency	10 Hz to 50 kHz	0.58% to 0.02%	Using Advance Modular Calibrator By Direct Method
60	FLUID FLOW- FLOW MEASURING DEVICES	All Flow Rate Metering Devices such as Digital Flow Meter, Air Flow Meter, Laminar Flow Meter/Element,Dry Gas Meter,Flow Data Logger. Mass Flow Controller, Rotameter.	50 LPM to 300 LPM	3.40%Rdg to 3.40%Rdg	Using Orifice Flow Meter By Comparison Method