



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, PLOT NO C-6, TRISHALA UNIT, N.I.C.E. INDUSTRIAL AREA, SATPUR, NASHIK, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3081 Page No. : 1 / 7

Validity 22/11/2019 to 21/11/2021 Last Amended on -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument	Measurement range and additional parameters where applicable(Range and Frequency)	Calibration and Measurement Capability(CMC)(±)	Calibration or Measurement Method or procedure)
Permanent Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	(R, Y, B) AC Current@50Hz:	1 A to 16 A	0.32% to 0.023%	Zera RMM 3001, by Direct Method
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	(R,Y, B) AC Voltage@50Hz:	60 V to 320 V	0.017%	Zera RMM 3001, by Direct Method
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	1&3 phase Active &reactive /Power @50Hz, 40 V to 320 V and 1mA to 16 A (0.5 leg/ lead)to UPF	0.2 W to 5.12 kW	0.291 % to 0.045 %	Zera RMM 3001, by Direct/ comparison Method
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	1&3 phase Active &reactive /Power @50Hz, 40 V to 320 V and 1mA to 16 A (0.5 leg/ lead)to UPF	5.12 kW to 7.68 kW	0.045 % to 0.44 %	Zera RMM 3001, by Direct/ comparison Method
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	1&3 phase Active &reactive /Power @50Hz, 40 V to 320 V and 1mA to 16 A (0.5 leg/ lead)to UPF	7.68 kW to 15.36 kW	0.44 % to 0.132 %	Zera RMM 3001, by Direct/ comparison Method



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6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50Hz-1kHz	3 mA to 1 A	0.16 % to 0.244 %	Fluke 5500A, by Direct Method
7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @50Hz-1kHz	1 A to 10 A	0.244 % to 0.41 %	Fluke 5500A, by Direct Method
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current: 50Hz-1kHz	30 µA to 3 mA	1.089 % to 0.16 %	Fluke 5500A, by Direct Method
9	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current@1kHz-10kHz	2 mA to 329 mA	0.697 % to 0.679 %	Fluke 5500A, by Direct Method
10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Power@50Hz, 0.2 leg/lead	10 W to 480 W	3.411 % to 1.918 %	Fluke 5500A, by Direct Method



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11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Power@50Hz, 0.2 leg/lead	10 W to 480 W	3.411 % to 1.918 %	Fluke 5500A, by Direct Method
12	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Power@50Hz, 0.6 leg/ lead	30 W to 1440 W	1.918 % to 1.0 %	Fluke 5500A, by Direct Method
13	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Power@50Hz, 0.8 leg/ lead	30 W to 1920 W	2.89 % to 0.616 %	Fluke 5500A, by Direct Method
14	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Power@50Hz, UPF	50 W to 2400 W	2.871 % to 0.521%	Fluke 5500A, by Direct Method
15	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage @ 50 Hz - 1 kHz	3 V to 1000 V	0.051% to 0.066%%	Fluke 5500A, by Direct Method



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16	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage: 10kHz-20kHz	30 V to 329 V	0.100 % to 0.113 %	Fluke 5500A, by Direct Method
17	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage: 1kHz-10kHz	1 mV to 30 V	3.58 % to 0.048 %	Fluke 5500A, by Direct Method
18	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage@10kHz-20kHz	1 mV to 30 V	3.578 % to 0.100 %	Fluke 5500A, by Direct Method
19	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage@1kHz-10kHz:	30 V to 1000 V	0.048 % to 0.283 %	Fluke 5500A, by Direct Method
20	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage@50Hz-1kHz	1 mV to 3 V	2.59 % to 0.051 %	Fluke 5500A, by Direct Method



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21	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance@1kHz	10 nF to 300 nF	1.077 % to 0.452 %	Fluke 5500A, by Direct Method
22	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance@1kHz	300 nF to 1000 µF	0.452 % to 1.184 %	Fluke 5500A, by Direct Method
23	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	10 µA to 30 mA	0.584% to 0.014%	Fluke 5500A, by Direct Method
24	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	30 mA to 10 A	0.014% to 0.09%	Fluke 5500A, by Direct Method
25	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Power	50 W to 10000 W	3.45% to 1.05%	Fluke 5500A, by Direct Method
26	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	1 kohm to 330 Mohm	0.018 % to 0.699 %	Fluke 5500A, by Direct Method
27	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	1 ohm to 1 kohm	1.05 % to 0.018 %	Fluke 5500A, by Direct Method
28	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	0.3 V DC to 1000 V DC	0.008% to 0.006%	Fluke 5500A, by Direct Method



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29	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	1 mV DC to 300 mV DC	3.00%% to 0.008%	Fluke 5500A, by Direct Method
30	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	RTD pt385: 100	-200 °C to 100 °C	0.12°C	Fluke 5500A, by Direct Method
31	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	RTD pt385:100	100 °C to 800 °C	0.27°C	Fluke 5500A, by Direct Method
32	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	Thermo couple: J type	100 °C to 1100 °C	0.625 °C	Fluke 5500A, by Direct Method
33	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	Thermo couple: J type	-210 °C to 100 °C	0.32 °C	Fluke 5500A, by Direct Method
34	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	Thermo couple: K type	100 °C to 1000 °C	0.63 °C	Fluke 5500A, by Direct Method
35	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	Thermo couple: K type	-200 °C to 100 °C	0.382 °C	Fluke 5500A, by Direct Method



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36	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency	10 Hz to 100 kHz	0.058 % to 0.006 %	Fluke 5500A, by Direct Method
37	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency	100 kHz to 2 MHz	0.006 % to 0.028 %	Fluke 5500A, by Direct Method