



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

CALIBRATION LABORATORY- AAROHI EMBEDDED SYSTEMS PVT LTD, PLOT NO.:
G-1004 TO 1008/A, KISHAN GATE NO-3 MAIN ROAD, GIDC METODA, RAJKOT,
GUJARAT, INDIA

Laboratory Name :

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3140

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Validity 21/09/2024 to 20/09/2026

Last Amended on

15/10/2024

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) (Measure)	AC Current (45 Hz to 5 KHz)	Using Power Meter by Direct Method	10 A to 65 A	0.35 % to 0.175 %
2	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current (45 Hz to 5 KHz)	Using 6 ½ digit Precision Multimeter by Direct Method	100 µA to 100 mA	0.25 % to 0.07 %
3	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current (45 Hz to 5 KHz)	Using 6 ½ digit Precision Multimeter by Direct Method	100 mA to 10 A	0.07 % to 0.25 %
4	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Power Meter by Direct Method	65 A to 200 A	0.36%



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5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power @ 50 Hz (40V to 1000V , 20A to 120 A , ±0.1 pF to UPF)	Using Power Meter With External CT by Direct Method	80 W to 120 kW	1.44 % to 0.35 %
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power @ 50 Hz (40V to 1000V , 0.1 A to 20A, ±0.1 pF to UPF)	Using Power Meter by Direct Method	0.04 W to 20 kW	3.25 % to 0.12 %
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage (45Hz to 10 KHz)	Using 6 ½ digit Precision Multimeter by Direct Method	100 mV to 3 V	0.12 % to 0.19 %
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage (45Hz to 10 KHz)	Using 6 ½ digit Precision Multimeter by Direct Method	3 mV to 100 mV	1.62 % to 0.12 %
9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage (45Hz to 10 KHz)	Using 6 ½ digit Precision Multimeter by Direct Method	3 V to 300 V	0.19 % to 0.16 %



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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage (45Hz to 10 KHz)	Using 6 ½ digit Precision Multimeter by Direct Method	300 V to 1000 V	0.16 % to 0.098 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz(30 V to 1000 V , 0.1 A to 120 A)	Using Power Meter External CT by Direct Method	0.05 PF (Lag/Lead) to 1.0 PF	0.004 PF to 0.002 PF
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 5 KHz)	Using Multi Product Calibrator by Direct Method	3 A to 10 A	0.147 % to 0.095 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 5 KHz)	Using Multi Product Calibrator by Direct Method	3 mA to 300 mA	0.122 % to 0.055 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 5 KHz)	Using Multi Product Calibrator by Direct Method	300 mA to 3 A	0.055 % to 0.147 %



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15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 65 Hz)	Using Multi Product Calibrator and Transconductance Amplifier by Direct Method	20 A to 120 A	0.095 % to 0.05 %
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power @ 50 Hz (40 V to 1000 V , 20 A to 120 A , ±0.1 pF to UPF)	Using Multi Product Calibrator and Transconductance Amplifier by Direct Method	80 W to 120 kW	0.2 % to 0.31 %
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power @ 50 Hz, (40V to 600V , 0.01A to 20A , ±0.1 pF to UPF)	Using Multi Product Calibrator by Direct Method	0.04 W to 12 kW	3.51 % to 0.18 %
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (45Hz to 10 KHz)	Using Multi Product Calibrator by Direct Method	100 mV to 3 V	0.06 % to 0.0371 %
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (45Hz to 10 KHz)	Using Multi Product Calibrator by Direct Method	3 mV to 100 mV	1.01 % to 0.06 %
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (45Hz to 10 KHz)	Using Multi Product Calibrator by Direct Method	3 V to 300 V	0.037 % to 0.06 %



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21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (45Hz to 10 KHz)	Using Multi Product Calibrator by Direct Method	300 V to 1000 V	0.06 % to 0.061 %
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor (45 Hz to 65 Hz & 1 V to 1000 V & 0.1 A to 20 A)	Using Multi Product Calibrator by Direct Method	0.05 PF (Lag/Lead) to 1.0 PF	0.003 PF to 0.002 PF
23	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6 ½ digit Precision Multimeter by Direct Method	10 µA to 300 mA	0.4 % to 0.07 %
24	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Power Meter by Direct Method	10 A to 20 A	0.19 % to 0.24 %
25	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6 ½ digit Precision Multimeter by Direct Method	300 mA to 10 A	0.07 % to 0.19 %
26	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Power (1.5 V to 1000 V, 0.1 A to 20 A)	Using Power Meter by Direct Method	0.15 W to 20 KW	2.43 % to 0.36 %



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27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ digit Precision Multimeter by Direct Method	1 mV to 100 mV	0.42 % to 0.009 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ digit Precision Multimeter by Direct Method	100 mV to 330 V	0.009 % to 0.009 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ digit Precision Multimeter by Direct Method	330 V to 1000 V	0.009 % to 0.006 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance(2 Wire)	Using 6 ½ digit Precision Multimeter by Direct Method	30 kohm to 30 Mohm	0.016 % to 0.99 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance(2 wire)	Using 6 ½ digit Precision Multimeter by Direct Method	30 Mohm to 1000 Mohm	0.99 % to 2.34 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance(4 Wire)	Using 6 ½ digit Precision Multimeter by Direct Method	0.1 Ohm to 30 Ohm	3.6 % to 0.03 %



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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance(4 Wire)	Using 6 ½ digit Precision Multimeter by Direct Method	30 Ohm to 30 kohm	0.03 % to 0.016 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 µA to 300 mA	0.25 % to 0.014 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator and Transconductance Amplifier by Direct Method	10 A to 65 A	0.075 % to 0.035 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	3 A to 10 A	0.089 % to 0.075 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	300 mA to 3 A	0.014 % to 0.089 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (1.5V to 1000V , 0.1 A to 20 A)	Using Multi Product Calibrator by Direct Method	0.15 W to 20 kW	0.08 % to 0.19 %



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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 100 mV	0.355 % to 0.01 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 mV to 330 V	0.01 % to 0.007 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	330 V to 1000 V	0.007 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 wire)	Using Decade Resistance Box by Direct Method	1 kohm to 1 Mohm	0.15 % to 1.63 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 Wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 100 Mohm	1.63 % to 2.61 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 Wire)	Using Decade Resistance Box by Direct Method	10 Ohm to 1 kohm	3.6 % to 0.15 %



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45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 Wire)	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	3.19 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 Wire)	Using Multi Product Calibrator by Direct Method	270 Mohm to 1000 Mohm	0.69 % to 1.86 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 Wire)	Using Multi Product Calibrator by Direct Method	3 Mohm to 30 Mohm	0.053 % to 0.135 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 Wire)	Using Multi Product Calibrator by Direct Method	30 kohm to 3 Mohm	0.011 % to 0.053 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 Wire)	Using Multi Product Calibrator by Direct Method	30 Mohm to 270 Mohm	0.135 % to 0.69 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(4 Wire)	Using Multi Product Calibrator by Direct Method	0.1 Ohm to 30 Ohm	1.19 % to 0.03 %



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51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(4 Wire)	Using Multi Product Calibrator by Direct Method	30 Ohm to 30 kohm	0.03 % to 0.01 %
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT 100 Type	Using 6 ½ digit Precision Multimeter by Simulation Method	(-) 200 °C to 600 °C	0.59 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT 100 Type	Using Multi Product Calibrator by Simulation Method	(-) 200 °C to 600 °C	0.57 °C
54	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Universal Frequency Counter/ Timer by Direct Method	100 mHz to 10 MHz	0.6 % to 0.06 %
55	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Universal Frequency Counter/ Timer by Direct Method	100 µSec to 1000 Sec	0.061 % to 0.058 %
56	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Universal Frequency Counter/ Timer by Direct Method	1000 Sec to 9999 Sec	0.058 % to 0.035 %



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57	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	0.1 Hz to 10 Hz	1.184 % to 0.012 %
58	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	10 Hz to 50 Hz	0.012 % to 0.0025 %
59	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	50 Hz to 100 KHz	0.0025 % to 0.001 %
60	FLUID FLOW-FLOW MEASURING DEVICES	Digital Water Flow Meter	Using Electro Magnetic Flow Meter By Comparison Method	700 m3/hr to 2500 m3/hr	0.34 % rdg
61	FLUID FLOW-FLOW MEASURING DEVICES	Liquid Volume Flow Rate (EMF, Rota meter, USFM, Turbine, Oval Gear, Vortex, Orifice Plate, Venturi, Critical flow venturi, Flow Nozzles, Wedge type, Annubar, Coriolis Flowmeter)	Using Weighing System 400 kg by Gravimetric Method as per ISO 4185:1980	0.5 m3/h to 25 m3/h	0.1 % rdg



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62	FLUID FLOW- FLOW MEASURING DEVICES	Liquid Volume Flow Rate (EMF, Rota meter, USFM, Turbine, Oval Gear, Vortex, Orifice Plate, Venturi, Critical flow venturi, Flow Nozzles, Pitot tube, Wedge type, Annubar, Coriolis Flowmeter)	Using Weighing System 10000 kg by Gravimetric Method as per ISO 4185:1980	50 m ³ /h to 1000 m ³ /h	0.1 % rdg
63	FLUID FLOW- FLOW MEASURING DEVICES	Liquid(Water) Volume Flow Rate (EMF, Rota meter, USFM, Turbine, Oval Gear, Vortex, Orifice Plate, Venturi, Critical flow venturi, Flow Nozzles, Pitot tube, Wedge type, Annubar, Coriolis Flowmeter)	Using Weighing System 1500 kg by Gravimetric Method as per ISO 4185:1980	5 m ³ /hr to 125 m ³ /hr	0.1 % rdg
64	MECHANICAL- ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Contact/surface speed Digital Tachometer and rpm source by Comparison method	10 rpm to 1000 rpm	2.55 %



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65	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Contact/surface speed Digital Tachometer and rpm source by Comparison method	1000 rpm to 4500 rpm	0.19 %
66	MECHANICAL-ACCELERATION AND SPEED	Tachometer(Non-Contact Type)	Using Digital Tachometer and rpm source by Comparison method	10 rpm to 1000 rpm	2.54 %
67	MECHANICAL-ACCELERATION AND SPEED	Tachometer(Non-Contact Type)	Using Digital Tachometer and rpm source by Comparison method	1000 rpm to 10000 rpm	0.2 %
68	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure:Digital & Dial Pressure Gauge, Pressure Modules & Pressure Transmitter with indicator	Using Digital Pressure Transducer with Pressure Indicator, Hydraulic Pressure Comparator by Comparison Method based on DKD-R 6-1	0 to 100 bar	0.018 bar
69	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Digital & Dial Vacuum Gauge, Vacuum Transmitter with indicator	Using Digital Pressure Transducer with Indicator ,Pneumatic Comparator by Comparison Method as per DKD-R 6-1	(-) 0.01 bar to (-) 0.95 bar	0.1 %



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Site Facility					
1	FLUID FLOW-FLOW MEASURING DEVICES	Digital and Analog Water Flow Meter	Using Portable Ultrasonic Flow meter & Clamp on sensors by Comparison method	1 m ³ /hr to 2500 m ³ /hr	1.0 % rdg

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