



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

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

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	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)	HIOKI PW3337 & Direct Method	10 A to 65 A	0.246 % to 0.187 %
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current (45 Hz to 5 KHz)	Fluke 6.5 PMM 8846A & Direct Method	100 µA to 100 mA	0.5 % to 0.256 %
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current (45 Hz to 5 KHz)	Fluke 6.5 PMM 8846A & Direct Method	100 mA to 10 A	0.256 % to 0.246 %
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Power @ 50 Hz (600V , 20A , ±0.2 pF to 1000V, 50A, UPF)	HIOKI PW3337 & Direct Method	2.4 kW to 50 kW	0.220 % to 0.212 %



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5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Power @ 50 Hz (40V , 0.1 A , ±0.2 pF to 600V, 20A, UPF)	HIOKI PW3337 & Direct Method	0.8 W to 12 kW	0.318 % to 0.290 %
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage (45Hz to 10 KHz)	Fluke 6.5 PMM 8846A & Direct Method	100 mV	0.1207%
7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage (45Hz to 10 KHz)	Fluke 6.5 PMM 8846A & Direct Method	100 mV to 3 V	0.1207 % to 0.1877 %
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage (45Hz to 10 KHz)	Fluke 6.5 PMM 8846A & Direct Method	3 V to 300 V	0.1877 % to 0.1602 %
9	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage (45Hz to 10 KHz)	Fluke 6.5 PMM 8846A & Direct Method	300 V to 1000 V	0.1602 % to 0.0980 %



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10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Capacitance	Fluke 6.5 PMM 8846A & Direct Method	1 nF to 10 nF	5.427 % to 1.783 %
11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Capacitance	Fluke 6.5 PMM 8846A & Direct Method	10 mF to 100 mF	3.708 % to 6.121 %
12	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Capacitance	Fluke 6.5 PMM 8846A & Direct Method	10 nF to 10 mF	1.783 % to 3.708 %
13	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Power Factor @ 50 Hz	HIOKI PW3337 & Direct Method	0.2 PF (Lag/Lead) to Unity PF	0.384 % to 0.191 %
14	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current (45 Hz to 5 KHz)	Fluke MPC 5502A & Direct Method	3 A to 10 A	0.1466 % to 0.0932 %



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15	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current (45 Hz to 5 KHz)	Fluke MPC 5502A & Direct Method	3 mA to 300 mA	0.1217 % to 0.054 %
16	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current (45 Hz to 5 KHz)	Fluke MPC 5502A & Direct Method	300 mA to 3 A	0.0543 % to 0.1466 %
17	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current (45 Hz to 65 Hz)	Fluke MPC 5502A and Fluke 52120A & Direct Method	10 A to 120 A	0.0932 % to 0.1 %
18	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Power @ 50 Hz (600V , 20A , Unity pF to 1000 V , 50 A, Unity pF)	Fluke MPC 5502A and Fluke 52120A & Direct Method	12 kW to 50 kW	0.349 % to 0.131 %
19	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Power @ 50 Hz, (40V , 0.01A , ±0.2 pF to 600V, 20A, UPF)	Fluke MPC 5502A & Direct Method	0.08 W to 12 kW	1.142 % to 0.349 %
20	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (45Hz to 10 KHz)	Fluke MPC 5502A & Direct Method	100 mV to 3 V	0.059 % to 0.0371 %



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21	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (45Hz to 10 KHz)	Fluke MPC 5502A & Direct Method	3 mV to 100 mV	0.924 % to 0.059 %
22	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (45Hz to 10 KHz)	Fluke MPC 5502A & Direct Method	3 V to 300 V	0.037 % to 0.059 %
23	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (45Hz to 10 KHz)	Fluke MPC 5502A & Direct Method	300 V to 1000 V	0.059 % to 0.0602 %
24	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance	Fluke MPC 5502A & Direct Method	1 nF to 10 µF	1.756 % to 0.433 %
25	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance	Fluke MPC 5502A & Direct Method	10 µF to 100 mF	0.433 % to 1.4 %
26	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance	Fluke MPC 5502A & Direct Method	220 pF to 1 nF	5.856 % to 1.756 %



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27	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)	Fluke MPC 5502A & Direct Method	0.05 PF (Lag/Lead) to 1.0 PF	4.32 % to 0.095 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Fluke 6.5 PMM 8846A & Direct Method	10 µA to 300 mA	0.370 % to 0.068 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	HIOKI PW3337 & Direct Method	10 A to 20 A	0.183 % to 0.795 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Fluke 6.5 PMM 8846A & Direct Method	300 mA to 10 A	0.067 % to 0.182 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Power (1.5V , 0.1 A to 1000 V, 20 A)	HIOKI PW3337 & Direct Method	0.15 W to 20 kW	0.243 % to 0.235 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Fluke 6.5 PMM 8846A & Direct Method	1 mV to 100 mV	0.439 % to 0.0102 %



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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Fluke 6.5 PMM 8846A & Direct Method	100 mV to 330 V	0.0102 % to 0.0088 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Fluke 6.5 PMM 8846A & Direct Method	330 V to 1000 V	0.0088 % to 0.0062 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Fluke 6.5 PMM 8846A & Direct Method	0.1 ohm to 30 ohm	3.546 % to 0.028 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Fluke 6.5 PMM 8846A & Direct Method	30 kilo ohm to 30 Mega-ohm	0.0154 % to 0.973 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Fluke 6.5 PMM 8846A & Direct Method	30 Mega-Ohm to 1000 Mega-Ohm	0.973 % to 2.34 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Fluke 6.5 PMM 8846A & Direct Method	30 ohm to 30 kilo ohm	0.0280 % to 0.0154 %



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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Fluke MPC 5502A & Direct Method	10 μ A to 300 mA	0.249 % to 0.0127 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Fluke MPC 5502A and Fluke 52120A & Direct Method	10 A to 65 A	0.0755 % to 0.174 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Fluke MPC 5502A & Direct Method	3 A to 10 A	0.0886 % to 0.0755 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Fluke MPC 5502A & Direct Method	300 mA to 3 A	0.0127 % to 0.0886 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (1.5V , 0.1 A to 1000 V ,20 A)	Fluke MPC 5502A & Direct Method	0.15 W to 20 kW	0.113 % to 0.114 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Fluke MPC 5502A & Direct Method	1 mV to 100 mV	0.355 % to 0.010 %



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45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Fluke MPC 5502A & Direct Method	100 mV to 330 V	0.010 % to 0.0065 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Fluke MPC 5502A & Direct Method	330 V to 1000 V	0.0065 % to 0.0065 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Fluke MPC 5502A & Direct Method	0.1 Ohm to 30 Ohm	3.546 % to 0.028 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Fluke MPC 5502A & Direct Method	270 Mega-ohm to 1000 Mega-ohm	2.68 % to 1.79 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Fluke MPC 5502A & Direct Method	3 Mega-ohm to 30 Mega-ohm	0.0204 % to 0.1256 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Fluke MPC 5502A & Direct Method	30 kilo-ohm to 3 Mega-ohm	0.0112 % to 0.0204 %



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51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Fluke MPC 5502A & Direct Method	30 Mega-ohm to 270 Mega-ohm	0.1256 % to 0.62 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Fluke MPC 5502A & Direct Method	30 Ohm to 30 kilo-Ohm	0.021 % to 0.011 %
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (B-Type)	Fluke MPC 5502A and Fluke 6.5 PMM 8846A & Simulation Method	600 °C to 1820 °C	1.68°C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (E-Type)	Fluke MPC 5502A and Fluke 6.5 PMM 8846A & Simulation Method	250 °C to 1000 °C	0.93°C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (J-Type)	Fluke MPC 5502A and Fluke 6.5 PMM 8846A & Simulation Method	(-) 200 °C to 1200 °C	0.35°C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (K-Type)	Fluke MPC 5502A and Fluke 6.5 PMM 8846A & Simulation Method	(-) 200 °C to 1372 °C	1.33°C



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57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (N-Type)	Fluke MPC 5502A and Fluke 6.5 PMM 8846A & Simulation Method	(-) 200 °C to 1300 °C	1.25°C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (R-Type)	Fluke MPC 5502A and Fluke 6.5 PMM 8846A & Simulation Method	0 °C to 1750 °C	1.65°C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (RTD)	Fluke 6.5 PMM 8846A & Simulation Method	(-) 200 °C to 600 °C	0.59°C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (S-Type)	Fluke MPC 5502A and Fluke 6.5 PMM 8846A & Simulation Method	0 °C to 1750 °C	1.67°C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (T-Type)	Fluke MPC 5502A and Fluke 6.5 PMM 8846A & Simulation Method	(-) 200 °C to 400 °C	0.75 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (RTD)	Fluke MPC 5502A & Simulation Method	(-) 200 °C to 600 °C	0.57°C



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63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (B-Type)	Fluke MPC 5502A & Simulation Method	600 °C to 1820 °C	1.43°C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (E-Type)	Fluke MPC 5502A & Simulation Method	250 °C to 1000 °C	1.29°C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (J-Type)	Fluke MPC 5502A & Simulation Method	(-) 200 °C to 1200 °C	0.47°C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (K-Type)	Fluke MPC 5502A & Simulation Method	(-) 100 °C to 1372 °C	1.02°C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (N-Type)	Fluke MPC 5502A & Simulation Method	(-) 200 °C to 1300 °C	1.54°C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (R-Type)	Fluke MPC 5502A & Simulation Method	0 °C to 1750 °C	1.83°C



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69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (S-Type)	Fluke MPC 5502A & Simulation Method	0 °C to 1750 °C	1.87°C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (T-Type)	Fluke MPC 5502A & Simulation Method	(-) 100 °C to 400 °C	0.90°C
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	KEYSIGHT 53220A Universal Frequency Counter/ Timer & Direct Method	100 mHz to 10 MHz	0.5837 % to 0.0577 %
72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	KEYSIGHT 53220A Universal Frequency Counter/ Timer & Direct Method	50 nS to 9999 S	0.023 % to 0.0058 %
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Fluke MPC 5502A & Direct Method	10 Hz to 50 Hz	0.0145 % to 0.0052 %
74	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Fluke MPC 5502A & Direct Method	50 Hz to 100 KHz	0.0052 % to 0.01 %



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75	FLUID FLOW-FLOW MEASURING DEVICES	Fluid flow-Quantity by Mass (Water)	Using 400 kg Weighing System by Gravimetric Method as per ISO 4185	100 kg to 400 kg	0.08% rdg
76	FLUID FLOW-FLOW MEASURING DEVICES	Fluid flow - Quantity by Volume (Water)	Using 400 kg Weighing System by Gravimetric Method as per ISO 4185	100 L to 400 L	0.08% rdg
77	FLUID FLOW-FLOW MEASURING DEVICES	Fluid flow -Quantity by Mass (Water)	Using 10000 kg Weighing System by Gravimetric Method as per ISO: 4185	1500 Kg to 10000 Kg	0.085% rdg
78	FLUID FLOW-FLOW MEASURING DEVICES	Fluid flow- Quantity by Mass (Water)	Using 1500 kg Weighing System by Gravimetric Method as per ISO 4185	300 kg to 1500 kg	0.092% rdg
79	FLUID FLOW-FLOW MEASURING DEVICES	Fluid flow- Quantity by Volume (Water)	Using 10000 kg Weighing System by Gravimetric Method as per ISO 4185	1500 L to 10000 L	0.085% rdg
80	FLUID FLOW-FLOW MEASURING DEVICES	Fluid flow-Quantity by Volume (Water)	Using 1500 kg Weighing System by Gravimetric Method as per ISO 4185	300 L to 1500 L	0.092% rdg
81	FLUID FLOW-FLOW MEASURING DEVICES	Liquid Mass Flow Rate (Water)	Using 400 kg Weighing System by Gravimetric Method as per ISO 4185	0.5 t/h to 25 t/h	0.08% rdg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

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

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3140

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Validity

13/08/2020 to 12/08/2022

Last Amended on

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
82	FLUID FLOW-FLOW MEASURING DEVICES	Liquid Mass Flow Rate (Water)	Using 1500 kg Weighing System by Gravimetric Method as per ISO 4185	5 t/h to 125 t/h	0.092% rdg
83	FLUID FLOW-FLOW MEASURING DEVICES	Liquid Mass Flow Rate (Water)	Using 10000 kg Weighing System by Gravimetric Method as per ISO 4185	50 t/h to 1000 t/h	0.085% rdg
84	FLUID FLOW-FLOW MEASURING DEVICES	Liquid Volume Flow Rate (Water)	Using 400 kg Weighing System by Gravimetric Method as per ISO 4185	0.5 m ³ /h to 25 m ³ /h	0.085% rdg
85	FLUID FLOW-FLOW MEASURING DEVICES	Liquid Volume Flow Rate (Water)	Using 1500 kg Weighing System by Gravimetric Method as per ISO 4185	5 m ³ /hr to 125 m ³ /hr	0.092% rdg
86	FLUID FLOW-FLOW MEASURING DEVICES	Liquid Volume Flow Rate (water)	Using 10000 kg Weighing System by Gravimetric Method as per ISO 4185	50 m ³ /h to 1000 m ³ /h	0.085% rdg

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