



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

CALIBRATION LABORATORY, G-TEK CORPORATION PRIVATE LIMITED, 3 MAHAVIR
ESTATE, KARELIBAUG, VADODARA, GUJARAT, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3545

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Validity

13/04/2023 to 12/04/2025

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 /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-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ data Acquisition/ Switch unit by Direct Method	1 mA to 10 mA	0.30 % to 0.12 %
2	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ data Acquisition/ Switch unit by Direct Method	10 mA to 100 mA	0.12 % to 0.064 %
3	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ data Acquisition/ Switch unit by Direct Method	0.1 V to 1 V	0.015 % to 0.010 %
4	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ data Acquisition/ Switch unit by Direct Method	1 mV to 100 mV	0.48 % to 0.015 %
5	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ data Acquisition/ Switch unit by Direct Method	1 V to 10 V	0.010 % to 0.013 %



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6	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ data Acquisition/ Switch unit by Direct Method	10 V to 100 V	0.013 % to 0.006 %
7	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ data Acquisition/ Switch unit by Direct Method	0.1 kohm to 1 kohm	0.58 % to 0.07 %
8	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ data Acquisition/ Switch unit by Direct Method	1 kohm to 4 kohm	0.07 % to 0.025 %
9	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ data Acquisition/ Switch unit by Direct Method	5 Ohm to 100 Ohm	0.15 % to 0.06 %
10	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Precision process calibrator by Direct Method	1 mA to 100 mA	0.15 % to 0.023 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision process calibrator by Direct Method	0.001 V to 0.1 V	0.68 % to 0.0082 %



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12	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision process calibrator by Direct Method	0.1 V to 1 V	0.017 % to 0.005 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision process calibrator by Direct Method	1 V to 10 V	0.016 % to 0.017 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision process calibrator by Direct Method	10 V to 100 V	0.017 % to 0.005 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Precision process calibrator by Direct Method	400 Ohm to 4 kohm	0.087 % to 0.009 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Precision process calibrator by Direct Method	5 Ohm to 400 Ohm	0.36 % to 0.087 %
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD simulation (Calibration of temperature Calibrator/simulator/ test kit)	Using Precision process calibrator by Simulation Method	-200 °C to 800 °C	0.35°C



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18	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type(Calibration of temperature Calibrator/simulator/ test kit)	Using Multifunction Calibrator by Simulation Method	200 °C to 400 °C	2.32°C
19	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type(Calibration of temperature Calibrator/simulator/ test kit)	Using Multifunction Calibrator by Simulation Method	400 °C to 1820 °C	1.18°C
20	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple C Type(Calibration of temperature Calibrator/simulator/ test kit)	Using Multifunction Calibrator by Simulation Method	1000 °C to 2000 °C	0.93°C
21	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple C Type(Calibration of temperature Calibrator/simulator/ test kit)	Using Multifunction Calibrator by Simulation Method	200 °C to 1000 °C	0.47°C
22	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple C Type(Calibration of temperature Calibrator/simulator/ test kit)	Using Multifunction Calibrator by Simulation Method	2000 °C to 2300 °C	1.39°C
23	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E Type(Calibration of temperature Calibrator/simulator/ test kit)	Using Multifunction Calibrator by Simulation Method	-270 °C to 1000 °C	0.42°C



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24	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type(Calibration of temperature Calibrator/simulator/ test kit)	Using Multifunction Calibrator by Simulation Method	-210 °C to 1200 °C	0.35°C
25	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type(Calibration of temperature Calibrator/simulator/ test kit)	Using Multifunction Calibrator by Simulation Method	-200 °C to 1300 °C	0.47°C
26	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type(Calibration of temperature Calibrator/simulator/ test kit)	Using Multifunction Calibrator by Simulation Method	-260 °C to 1300 °C	0.47°C
27	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type(Calibration of temperature Calibrator/simulator/ test kit)	Using Multifunction Calibrator by Simulation Method	-50 °C to 1768 °C	1.17°C
28	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type(Calibration of temperature Calibrator/simulator/ test kit)	Using Multifunction Calibrator by Simulation Method	-50 °C to 1768 °C	1.17°C
29	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type(Calibration of temperature Calibrator/simulator/ test kit)	Using Multifunction Calibrator by Simulation Method	-270 °C to 400 °C	0.35°C



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30	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD simulation (Calibration of temperature Indicator / Controller/ Recorder/ Calibrator/Transmitter/Scanner/Data logger)	Using Precision process calibrator by Simulation Method	-200 °C to 800 °C	0.084°C
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type (Calibration of temperature Indicator / Controller/Recorder/ Calibrator/ Transmitter/Scanner /Data logger)	Using Multifunction Calibrator by Simulation Method	200 °C to 400 °C	2.31°C
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type (Calibration of temperature Indicator / Controller/Recorder/ Calibrator/ Transmitter/Scanner /Data logger)	Using Multifunction Calibrator by Simulation Method	400 °C to 1820 °C	1.16°C



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33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple C Type (Calibration of temperature Indicator / Controller/Recorder/ Calibrator/ Transmitter/Scanner /Data logger)	Using Multifunction Calibrator by Simulation Method	1000 °C to 2000 °C	0.93°C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple C Type (Calibration of temperature Indicator / Controller/Recorder/ Calibrator/ Transmitter/Scanner /Data logger)	Using Multifunction Calibrator by Simulation Method	200 °C to 1000 °C	0.47°C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple C Type (Calibration of temperature Indicator / Controller/Recorder/ Calibrator/ Transmitter/Scanner /Data logger)	Using Multifunction Calibrator by Simulation Method	2000 °C to 2300 °C	1.39°C



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36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type (Calibration of temperature Indicator / Controller/Recorder/ Calibrator/ Transmitter/Scanner /Data logger)	Using Multifunction Calibrator by Simulation Method	-200 °C to 1000 °C	0.30°C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type (Calibration of temperature Indicator / Controller/Recorder/ Calibrator/ Transmitter/Scanner /Data logger)	Using Multifunction Calibrator by Simulation Method	-210 °C to 1200 °C	0.35°C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type (Calibration of temperature Indicator / Controller/Recorder/ Calibrator/ Transmitter/Scanner /Data logger)	Using Multifunction Calibrator by Simulation Method	-210 °C to 1372 °C	0.47°C



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39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type (Calibration of temperature Indicator / Controller/Recorder/ Calibrator/ Transmitter/Scanner /Data logger)	Using Multifunction Calibrator by Simulation Method	-200 °C to 1300 °C	0.46°C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type (Calibration of temperature Indicator / Controller/Recorder/ Calibrator/ Transmitter/Scanner /Data logger)	Using Multifunction Calibrator by Simulation Method	-50 °C to 1768 °C	1.16°C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type (Calibration of temperature Indicator / Controller/Recorder/ Calibrator/ Transmitter/Scanner /Data logger)	Using Multifunction Calibrator by Simulation Method	-50 °C to 1768 °C	1.16°C



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42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type (Calibration of temperature Indicator / Controller/Recorder/ Calibrator/ Transmitter/Scanner /Data logger)	Using Multifunction Calibrator by Simulation Method	-200 °C to 400 °C	0.35°C
43	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Dial / Digital Pressure Indicating Device; Pressure Transmitter / Switches	Using Digital Pressure Gauge , Multifunction Process Calibrator & Hydraulic Comparator by comparison method as per DKD- R - 6 -1	0 bar to 100 bar	0.112bar
44	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Dial / Digital Pressure Indicating Device; Pressure Transmitter / Switches	Using Digital Pressure Gauge , Multifunction Process Calibrator & Hydraulic Comparator by comparison method as per DKD- R - 6 -1	0 bar to 600 bar	0.521bar



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45	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Dial / Digital Pressure Indicating Device; Pressure Transmitter / Switches	Using Digital Pressure Calibrator with Vacuum / Pneumatic Hand Pressure Pump, Multifunction Process Calibrator by Comparison Method DKD- R - 6 -1	-400 mbar to 400 mbar	0.78mbar
46	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity measuring devices with indicator / thermo hygrometer	Using Standard Temp & Rh sensor with indicator , multifunction calibrator , & Chamber ; by comparison method	10 °C to 50 °C @50% RH	1.05°C
47	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity measuring devices with indicator / thermo hygrometer	Using Standard Temp & Rh sensor with indicator , multifunction calibrator , & Chamber ; by comparison method	15 %RH to 90 %RH @25°C	1.48%RH
48	THERMAL-TEMPERATURE	Temp. data loggers with inbuilt sensor (RTD / THERMISTOR/ thermocouple)	Using PRT 4-Wire sensor with Indicator , temperature chamber by comparison method	-30 °C to 50 °C	0.86°C



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49	THERMAL-TEMPERATURE	Temperature sensor (RTD/ Thermocouple) and Temperature transmitter With or without indicating Devices	Using R type TC Sensor with indicator, multifunction calibrator, Dry block Temperature bath by comparison method	150 °C to 1200 °C	2.58°C
50	THERMAL-TEMPERATURE	Temperature sensor (RTD/ Thermocouple) and Temperature transmitter With or without indicating Devices	Using PRT 4-Wire sensor with indicator, multifunction calibrator, with Dry block Temperature bath by comparison method	150 °C to 600 °C	1.17°C
51	THERMAL-TEMPERATURE	Temperature sensor (RTD/ Thermocouple) and Temperature transmitter With or without indicating Devices	Using PRT 4-Wire sensor with indicator, multifunction calibrator ,Ultra Cool Drywell bath by comparison method.	-95 °C to 140 °C	0.64°C

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