



National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**AIR WORKS CALIBRATION LABORATORY**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at

AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI INTERNATIONAL AIRPORT, GATE NO. 08,  
SANTACRUZ-EAST, MUMBAI, MAHARASHTRA, INDIA

in the field of

**CALIBRATION**

Certificate Number: CC-2965

Issue Date: 29/03/2022

Valid Until: 28/03/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.  
(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Identity : AIR WORKS INDIA (ENGINEERING) PVT. LTD.

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

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AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI INTERNATIONAL AIRPORT, GATE NO. 08, SANTACRUZ-EAST, MUMBAI, MAHARASHTRA, INDIA

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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-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Standard Multimeter by Direct Method	1 A to 10 A	0.10 % to 0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Standard Multimeter by Direct Method	100 mA to 1 A	0.17 % to 0.10 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Standard Multimeter by Direct Method	30 µA to 100 mA	0.30 % to 0.17 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Standard Multimeter by Direct Method	1 mV to 10 mV	4.75 % to 0.55 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Standard Multimeter by Direct Method	10 mV to 10 V	0.55 % to 0.10 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Standard Multimeter by Direct Method	10 V to 1000 V	0.10 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using 6½ Digit Standard Multimeter by Direct Method	1 nF to 10 nF	5.2 % to 1.73 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using 6½ Digit Standard Multimeter by Direct Method	10 nF to 1 mF	1.73 % to 1.9 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Multi Function Calibrator by direct method	10 A to 20 A	0.14 % to 0.2 %





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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Multi Function Calibrator by direct method	3.2 mA to 320 mA	0.13 % to 0.067 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Multi Function Calibrator by direct method	320 µA to 3.2 mA	0.18 % to 0.13 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Multi Function Calibrator by direct method	320 mA to 10 A	0.067 % to 0.14 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Multi Function Calibrator by direct method	33 µA to 320 µA	0.5 % to 0.18 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by direct method	10 A to 20 A	0.094 % to 0.2 %
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator & 50 turn Current Coil by direct method	100 A to 1000 A	0.65 % to 0.85 %



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16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by direct method	3.2 mA to 320 mA	0.13 % to 0.067 %
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by direct method	320 µA to 3.2 mA	0.18 % to 0.13 %
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by direct method	320 mA to 10 A	0.067 % to 0.094 %
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by direct method	33 µA to 320 µA	0.5 % to 0.18 %
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Using Multi Function Calibrator by direct method	1 mV to 30 mV	2.76 % to 0.2 %
21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Using Multi Function Calibrator by direct method	30 mV to 300 mV	0.2 % to 0.043 %



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22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Using Multi Function Calibrator by direct method	30 V to 1000 V	0.038 % to 0.061 %
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Using Multi Function Calibrator by direct method	300 mV to 30 V	0.043 % to 0.038 %
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multi Function Calibrator by direct method	1 mV to 30 mV	2.94 % to 0.2 %
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multi Function Calibrator by direct method	30 mV to 300 mV	0.2 % to 0.043 %
26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multi Function Calibrator by direct method	30 V to 1000 V	0.038 % to 0.061 %
27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multi Function Calibrator by direct method	300 mV to 30 V	0.043 % to 0.038 %





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28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Multi Function Calibrator by direct method	1 nF to 3 nF	1.86 % to 0.98 %
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Multi Function Calibrator by direct method	100 nF to 1 mF	0.42 % to 1.27 %
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Multi Function Calibrator by direct method	3 nF to 100 nF	0.98 % to 0.42 %
31	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Standard Multimeter by Direct Method	1 A to 10 A	0.085 % to 0.20 %
32	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Standard Multimeter by Direct Method	10 µA to 100 mA	0.36 % to 0.065 %
33	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Standard Multimeter by Direct Method	100 mA to 1 A	0.065 % to 0.085 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Standard Multimeter by Direct Method	1 mV to 100 mV	0.45 % to 0.045 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Standard Multimeter by Direct Method	10 V to 1000 V	0.005 % to 0.007 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Standard Multimeter by Direct Method	100 mV to 10 V	0.045 % to 0.005 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter by Direct Method	1 Mohm to 10 Mohm	0.013 % to 0.048 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter by Direct Method	1 Ohm to 10 Ohm	0.36 % to 0.046 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter by Direct Method	10 Mohm to 100 Mohm	0.048 % to 0.94 %





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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter by Direct Method	10 Ohm to 100 Ohm	0.046 % to 0.016 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter by Direct Method	100 Mohm to 1 Gohm	0.94 % to 2.30 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter by Direct Method	100 Ohm to 1 Mohm	0.016 % to 0.013 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by direct method	10 µA to 320 µA	0.26 % to 0.025 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by direct method	10 A to 20 A	0.075 % to 0.12 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator & 50 turn current coil by direct method	100 A to 1000 A	0.47 % to 0.65 %



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by direct method	2.9 A to 10 A	0.046 % to 0.075 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by direct method	320 $\mu$ A to 320 mA	0.025 % to 0.014 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by direct method	320 mA to 2.9 A	0.014 % to 0.046 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by direct method	1 mV to 10 mV	0.74 % to 0.089 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by direct method	10 mV to 320 mV	0.089 % to 0.008 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by direct method	3.2 V to 1000 V	0.006 % to 0.01 %



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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by direct method	320 mV to 3.2 V	0.008 % to 0.006 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance (n steps of 1-2-5-10)	Using Standard High Resistance box by direct method	100 kohm to 1000 Mohm	1.32 % to 1.20 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multifunction Calibrator by direct method	1 Mohm to 100 Mohm	0.019 % to 0.58 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multifunction Calibrator by direct method	1 Ohm to 100 Ohm	0.71 % to 0.015 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multifunction Calibrator by direct method	100 kohm to 1 Mohm	0.015 % to 0.019 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multifunction Calibrator by direct method	100 Ohm to 100 kohm	0.015%





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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K-Type	Using 6½ Digit Standard Multimeter by Direct Method	120 °C to 1370 °C	0.47 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K-Type	Using 6½ Digit Standard Multimeter by Direct Method	-50 °C to 120 °C	0.32 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K-type	Using Multi Function Calibrator by direct method	120 °C to 1370 °C	0.47 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K-type	Using Multi Function Calibrator by direct method	-50 °C to 120 °C	0.32 °C
62	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Standard Multimeter by Direct Method	10 Hz to 1 MHz	0.08 % to 0.012 %
63	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator by direct method	10 Hz to 100 kHz	0.06 % to 0.006 %



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64	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator by direct method	100 kHz to 2 MHz	0.008 % to 0.009 %
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.:0.001 mm)	Using Slip gauge set by Comparison method	0 to 25 mm	1.5µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using External Micrometer by comparison method	0.03 mm to 1 mm	2µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.:0.01 mm)	Using Caliper Checker and surface plate by Comparison method	0 to 300 mm	12.3µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C. 0.01 mm)	Using Caliper Checker by comparison method	0 to 300 mm	12.0µm



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69	MECHANICAL-PRESSURE INDICATING DEVICES	Analog and Digital Vacuum gauges, Transducers with indicator, Transmitters with indicator	Using Digital Pressure Calibrator as per DKD R-6-1 by comparison Method	-0.93 bar to 0	0.015bar
70	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Analog and Digital Pressure Gauge, Pressure Transducer with indicator, Pressure Transmitter with indicator	Using Digital Pressure Calibrator as per DKD R-6-1 by comparison method	0 to 1000 bar	0.77bar
71	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Analog and Digital Pressure gauges, Pressure Transducers with indicator, Pressure Transmitters indicator	Using Digital Pressure Calibrator as per DKD R-6-1 by comparison method	0 to 40 bar	0.038bar
72	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches Type-I (Class A, B, C, D, E) Type-II (Class A, B, C, D, E, F, G)	Using Manual Torque Wrench Calibration system as per IS 16906	1 Nm to 10 Nm	1.50%
73	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches Type-I (Class A, B, C, D, E) Type-II (Class A, B, C, D, E, F, G)	Using Manual Torque Wrench Calibration system as per IS 16906	10 Nm to 1000 Nm	1.21%





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74	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance L.C.: 50 g	Using F1 class weights as per IS 1702	0 to 100 kg	37.8g



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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)(±)
Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Standard Multimeter by Direct Method	1 A to 10 A	0.10 % to 0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Standard Multimeter by Direct Method	100 mA to 1 A	0.17 % to 0.10 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Standard Multimeter by Direct Method	30 µA to 100 mA	0.30 % to 0.17 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Standard Multimeter by Direct Method	1 mV to 10 mV	4.75 % to 0.55 %



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**Accreditation Standard**

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Standard Multimeter by Direct Method	10 mV to 10 V	0.55 % to 0.10 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Standard Multimeter by Direct Method	10 V to 1000 V	0.10 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using 6½ Digit Standard Multimeter by Direct Method	1 nF to 10 nF	5.2 % to 1.73 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using 6½ Digit Standard Multimeter by Direct Method	10 nF to 1 mF	1.73 % to 1.9 %
9	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Standard Multimeter by Direct Method	1 A to 10 A	0.085 % to 0.20 %





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10	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Standard Multimeter by Direct Method	10 µA to 100 mA	0.36 % to 0.065 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Standard Multimeter by Direct Method	100 mA to 1 A	0.065 % to 0.085 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Standard Multimeter by Direct Method	1 mV to 100 mV	0.45 % to 0.045 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Standard Multimeter by Direct Method	10 V to 1000 V	0.005 % to 0.007 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Standard Multimeter by Direct Method	100 mV to 10 V	0.045 % to 0.005 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter by Direct Method	1 Mohm to 10 Mohm	0.013 % to 0.048 %



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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter by Direct Method	1 Ohm to 10 Ohm	0.36 % to 0.046 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter by Direct Method	10 Mohm to 100 Mohm	0.048 % to 0.94 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter by Direct Method	10 Ohm to 100 Ohm	0.046 % to 0.016 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter by Direct Method	100 Mohm to 1 Gohm	0.94 % to 2.30 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter by Direct Method	100 Ohm to 1 Mohm	0.016 % to 0.013 %
21	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K-Type	Using 6½ Digit Standard Multimeter by Direct Method	120 °C to 1370 °C	0.47 °C



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22	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K-Type	Using 6½ Digit Standard Multimeter by Direct Method	-50 °C to 120 °C	0.32 °C
23	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Standard Multimeter by Direct Method	10 Hz to 1 MHz	0.08 % to 0.012 %
24	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 0.001 kg) (Class III & Coarser)	Using F1 class weight as per OIML R-76-1	0 to 15 kg	1.3g
25	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 0.01 kg) (Class III&coarser)	Using F1 Class weights as per OIML R-76-1	0 to 100 kg	14g

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