



## Federation for Development of Accreditation Services

### **CERTIFICATE OF ACCREDITATION** **(AS PER ISO/IEC 17025:2017)**

This is to attest that

#### **M/s “WINMET TECHNOLOGIES PRIVATE LIMITED”**

315A, 3<sup>rd</sup> Floor DLF Centre Point, Sector-11,  
Faridabad (Haryana) -121006, India

#### **Calibration Laboratory**

has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories and supplementary criteria for calibration laboratories.

**Certificate Number:** CL-108

**Issue Date:** 20/07/2023

**Valid Until:** 19/07/2025

The certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard and the relevant requirements of FDAS (scope of accreditation also displayed at [www.fdasindia.org](http://www.fdasindia.org)).

  
**DEVI SARAN TEWARI**  
Director



# Federation for Development of Accreditation Services

## SCOPE OF ACCREDITATION

Laboratory Name **M/s "Winmet Technologies Private Limited"**  
315A, 3<sup>rd</sup> Floor DLF Centre Point, Sector-11,  
Faridabad (Haryana) -121006, India

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CL-108 Page No.: 01/20

Validity 20.07.2023 to 19.07.2025 Last Amended on .....

### ELECTRO-TECHNICAL

#### Laboratory based Calibration

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
<b>Alternating Current (&lt; 1 GHz) (Measure)</b>				
1	Alternating Current(< 1 GHz) AC Current @ 50 Hz	Using 6½ DMM & Direct Method as per IS 1248:2021	30 µA to 100 mA	0.24 % to 0.16 %
2	Alternating Current(< 1 GHz) AC Current @ 50 Hz	Using 6½ DMM & Direct Method as per IS 1248:2021	100 mA to 1 A	0.16 %
3	Alternating Current(< 1 GHz) AC Current @ 50 Hz	Using 6½ DMM & Direct Method as per IS 1248:2021	1 A to 10 A	0.16 %
4	Alternating Current(< 1 GHz) AC Current @ 50 Hz	Using Shunt with Multimeter & Direct Method as per IS 1248:2021	20 A to 800 A	1.20 %
5	Alternating Current(< 1 GHz) AC Resistance @ 1 kHz	Using LCR Meter & Direct Method as per IS 2806:1992	1 ohm to 10 ohm	0.35 %
6	Alternating Current(< 1 GHz) AC Resistance @ 1 kHz	Using LCR Meter & Direct Method as per IS 2806:1992	10 ohm to 100 ohm	0.30 %
7	Alternating Current(< 1 GHz) AC Resistance @ 1 kHz	Using LCR Meter & Direct Method as per IS 2806:1992	100 ohm to 1 k ohm	0.30 %
8	Alternating Current(< 1 GHz) AC Resistance @ 1 kHz	Using LCR Meter & Direct Method as per IS 2806:1992	1 k ohm to 10 k ohm	0.30 %
9	Alternating Current(< 1 GHz) AC Voltage @ 50 Hz	Using 6½ DMM & Direct Method as per IS 1248:2021	1 mV to 10 mV	0.80 % to 0.60 %
10	Alternating Current(< 1 GHz) AC Voltage @ 50 Hz	Using 6½ DMM & Direct Method as per IS 1248:2021	10 mV to 10 V	0.60 % to 0.07 %

*Jitendra Parmar*  
Dealing Officer



# Federation for Development of Accreditation Services

## SCOPE OF ACCREDITATION

Laboratory Name	<b>M/s "Winmet Technologies Private Limited"</b> 315A, 3 <sup>rd</sup> Floor DLF Centre Point, Sector-11, Faridabad (Haryana) -121006, India		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CL-108	Page No.:	02/20
Validity	20.07.2023 to 19.07.2025	Last Amended on	

### ELECTRO-TECHNICAL

#### Laboratory based Calibration

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
11	Alternating Current(< 1 GHz) AC Voltage @ 50 Hz	Using 6½ DMM & Direct Method as per IS 1248:2021	10 V to 1000 V	0.07%
12	Alternating Current(< 1 GHz) Power Factor @ 50 Hz (1 A to 5 A / 240 V)	Using Accucheck & CT with Power Source & Load Manager & Direct Method	0.5 PF to UPF	0.86 % to 0.23 %
13	Alternating Current(< 1 GHz) Capacitance @ 1 kHz	Using LCR Meter & 6½ DMM & Direct Method	220 pF to 10 nF	6 % to 0.60 %
14	Alternating Current(< 1 GHz) Capacitance @ 1 kHz	Using LCR Meter & 6½ DMM & Direct Method	10 nF to 1000 nF	0.60 % to 2.02 %
15	Alternating Current(< 1 GHz) Capacitance @ 1 kHz	Using LCR Meter & 6½ DMM & Direct Method	1000 nF to 1 mF	2.02 % to 1.30 %
16	Alternating Current(< 1 GHz) Inductance @ 1 kHz	Using LCR Meter & Direct Method	1 mH to 10 H	0.33 % to 0.42 %
<b>Alternating Current (&lt; 1 GHz)(Source)</b>				
1	Alternating Current(< 1 GHz) AC Voltage @ 50 Hz	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	3 mV to 100 mV	1.03 % to 0.20 %
2	Alternating Current(< 1 GHz) AC Voltage @ 50 Hz	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	100 mV to 1000 V	0.20 %
3	Alternating Current(< 1 GHz) AC Current @ 50 Hz	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	100 µA to 1 A	0.40 % to 0.10 %

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### ELECTRO-TECHNICAL

#### Laboratory based Calibration

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
4	Alternating Current(< 1 GHz) AC Current @ 50 Hz	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	1 A to 20 A	0.10 % to 0.21 %
5	Alternating Current(< 1 GHz) AC Current @ 50 Hz	Using Multiproduct Calibrator with Current Coil & Direct Method as per IS 1248:2021	20 A to 1000 A	1.40 % to 0.70 %
6	Alternating Current(< 1 GHz) Capacitance @ 100 Hz	Using Multi Product Calibrator/ Decade Capacitance Box & Direct Method	1 $\mu$ F to 100 $\mu$ F	0.65 %
7	Alternating Current(< 1 GHz) Capacitance @ 1 kHz	Using Multiproduct Calibrator/Decade Capacitance Box & Direct Method	300 nF to 1 $\mu$ F	0.41%
8	Alternating Current(< 1 GHz) Capacitance @ 1 kHz	Using Multiproduct Calibrator/ Decade Capacitance Box & Direct Method	1 nF to 300 nF	1.70 % to 0.41%
9	Alternating Current(< 1 GHz) Inductance @ 1 kHz	Using Decade Inductance Box & Direct Method	100 $\mu$ H to 10 mH	1.35 %
10	Alternating Current(< 1 GHz) Inductance @ 1 kHz	Using Decade Inductance Box & Direct Method	10 mH to 100 mH	1.35%
11	Alternating Current(< 1 GHz) Inductance @ 1 kHz	Using Decade Inductance Box & Direct Method	100 mH to 10 H	1.35 %
12	Alternating Current(< 1 GHz) AC Power @ 50 Hz (0.1 A to 20 A / 10 V to 600 V)-Single Phase	Using Multiproduct Calibrator with Current Coil & Direct Method	1 W to 12 kW	0.32 %

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### ELECTRO-TECHNICAL

#### Laboratory based Calibration

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
13	Alternating Current(< 1 GHz) Power Factor @ 50 Hz (240 V & 2 A)	Using Multiproduct Calibrator & Direct Method	0.5 PF to UPF	0.52 % to 0.21 %
<b>Direct Current (Measure)</b>				
1	Direct Current DC Current	Using 6½ DMM & Direct Method as per IS 1248:2021	10 µA to 100 µA	0.72 % to 0.14 %
2	Direct Current DC Current	Using 6½ DMM & Direct Method as per IS 1248:2021	100 µA to 100 mA	0.14%
3	Direct Current DC Current	Using 6½ DMM & Direct Method as per IS 1248:2021	100 mA to 1 A	0.14%
4	Direct Current DC Current	Using 6½ DMM & Direct Method as per IS 1248:2021	1 A to 10 A	0.14%
5	Direct Current DC Current	Using Shunt / Current Probe with DMM & Direct Method as per IS 1248:2021	20 A to 800 A	0.14 % to 1.15 %
6	Direct Current DC Resistance	Using 6½ DMM & Direct Method as per IS 2806:1992	1 ohm to 100 ohm	0.02 % to 0.06 %
7	Direct Current DC Resistance	Using 6½ DMM & Direct Method as per IS 2806:1992	100 ohm to 100 M ohm	0.06%
8	Direct Current DC Resistance	Using 6½ DMM & Direct Method as per IS 2806:1992	100 M ohm to 1000 M ohm	0.06 % to 0.50 %
9	Direct Current DC Voltage	Using 6½ DMM & Direct Method as per IS 1248:2021	1 mV to 1 V	0.50 % to 0.009 %
10	Direct Current DC Voltage	Using 6½ DMM & Direct Method as per IS 1248:2021	1 V to 10 V	0.009 % to 0.008 %
11	Direct Current DC Voltage	Using 6½ DMM & Direct Method as per IS 1248:2021	10 V to 1000 V	0.008 % to 0.003 %

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### ELECTRO-TECHNICAL

#### Laboratory based Calibration

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
<b>Direct Current (Source)</b>				
1.	Direct Current DC Current	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	100 $\mu$ A to 1 mA	0.40 % to 0.21 %
2.	Direct Current DC Current	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	1 mA to 100 mA	0.21 % to 0.02 %
3.	Direct Current DC Current	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	100 mA to 1 A	0.02 % to 0.05 %
4.	Direct Current DC Current	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	1 A to 10 A	0.05 % to 0.08 %
5.	Direct Current DC Current	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	10 A to 20 A	0.08 % to 0.13 %
6.	Direct Current DC Current	Using Multiproduct Calibrator with Current Coil & Direct Method as per IS 1248:2021	20 A to 1000 A	1.2 % to 0.77 %
7.	Direct Current DC Power (0.1A to 20 A / 10 V to 1000 V)- Single Phase	Using Multiproduct Calibrator with Current Coil & Direct Method	1 W to 20 kW	1.58 % to 0.40 %
8.	Direct Current DC Voltage	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	1 mV to 100 mV	0.68 % to 0.01 %
9.	Direct Current DC Voltage	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	100 mV to 1000 V	0.01%

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### ELECTRO-TECHNICAL

#### Laboratory based Calibration

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
10	Direct Current(< 1 GHz) Resistance	Using Decade Resistance Box & Direct Method as per IS 2806:1992	1 m Ohm to 100 m Ohm	5.22 % to 0.70 %
11	Direct Current(< 1 GHz) Resistance	Using Multi Product Calibrator/Decade Resistance Box & Direct Method as per IS 2806:1992	1 Ohm to 100 Ohm	0.54 % to 0.14 %
12	Direct Current(< 1 GHz) Resistance	Using Multi Product Calibrator/Decade Resistance Box & Direct Method as per IS 2806:1992	100 Ohm to 100 k Ohm	0.01%
13	Direct Current(< 1 GHz) Resistance	Using Multi Product Calibrator/Decade Resistance Box & Direct Method as per IS 2806:1992	100 k Ohm to 10 M ohm	0.01 % to 0.10 %
14	Direct Current(< 1 GHz) Resistance	Using Multi Product Calibrator/Decade Resistance Box & Direct Method as per IS 2806:1992	10 M Ohm to 1000 M ohm	0.10 % to 0.40 %
15	Direct Current(< 1 GHz) Resistance	Using Discrete Resistance Box & Direct Method as per IS 2806:1992	2 & 20 G ohm	1.81 % to 4.75 %
<b>Time &amp; Frequency,(Measure)</b>				
1.	Frequency	Using 6½ DMM & Direct Method as per IS 1248:2021	10 Hz to 1000 kHz	0.08 % to 0.05 %
2.	Time	Using Time Calibrator & Direct Method	10 s to 1 hr	0.2 s to 2.18 s
3.	Time	Using Time Calibrator & Direct Method	1 hrs to 5 hrs	2.16 s to 10.44 s
4.	Time	Using Time Calibrator & Direct Method	5 hrs to 24 hrs	10.44 s to 50 s

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Accreditation Standard	ISO/IEC 17025:2017		
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### ELECTRO-TECHNICAL

#### Laboratory based Calibration

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
<b>Time &amp; Frequency (Source)</b>				
1.	Frequency	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	10 Hz to 1 MHz	0.06 % to 0.60 %
<b>Temperature Simulation (Measure)</b>				
1.	Temperature Simulation J-Type Thermocouple (Source / Calibrator)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 , IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	(-) 200 °C to 1000 °C	0.73 °C
2.	Temperature Simulation B-Type Thermocouple (Source / Calibrator)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 , IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	600 °C to 1800 °C	1.25 °C
3.	Temperature Simulation E-Type Thermocouple (Source / Calibrator)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	(-) 200 °C to 1000 °C	0.80 °C
4.	Temperature Simulation K-Type Thermocouple (Source / Calibrator)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	(-) 200 °C to 1300 °C	0.80 °C
5.	Temperature Simulation N-Type Thermocouple (Source / Calibrator)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	(-) 200 °C to 1300 °C	0.80 °C

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### ELECTRO-TECHNICAL

#### Laboratory based Calibration

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
6.	Temperature Simulation R-Type Thermocouple (Source / Calibrator)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	0 °C to 1750 °C	1.25 °C
7.	Temperature Simulation S-Type Thermocouple (Source / Calibrator)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	0 °C to 1750 °C	1.25 °C
8.	Temperature Simulation T-Type Thermocouple (Source / Calibrator)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	(-) 200 °C to 400 °C	0.80 °C
9.	Temperature Simulation RTD, PT-100 (Source / Calibrator)	Using 6½ DMM & Direct Method as per IS 2806:1992	(-) 200 °C to 600 °C	0.42 °C
<b>Temperature Simulation (Source)</b>				
1.	Temperature Simulation B-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 , IS 2057:1992 , IS 7358:1964	600 °C to 1800 °C	0.80 °C
2.	Temperature Simulation E-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 , IS 2057:1992 , IS 7358:1964	(-) 200 °C to 1000 °C	0.80 °C
3.	Temperature Simulation K-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 , IS 2057:1992 , IS 7358:1964	(-) 200 °C to 1300 °C	0.80 °C
4.	Temperature Simulation N-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 , IS 2057:1992 , IS 7358:1964	(-) 200 °C to 1300 °C	0.80 °C

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Accreditation Standard	ISO/IEC 17025:2017		
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### ELECTRO-TECHNICAL

#### Laboratory based Calibration

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
5.	Temperature Simulation R-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	0 °C to 1750 °C	0.80 °C
6.	Temperature Simulation RTD, PT-100 Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2806:1992	(-) 200 °C to 800 °C	0.27 °C
7.	Temperature Simulation S-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 , IS 2057:1992 , IS 7358:1964	0 °C to 1750 °C	0.80 °C
8.	Temperature Simulation T-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 , IS 2057:1992 , IS 7358:1964	(-) 200 °C to 400 °C	0.80 °C
9.	Temperature Simulation J-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 , IS 2057:1992 , IS 7358:1964	(-) 200 °C to 1200 °C	0.80 °C

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### ELECTRO-TECHNICAL

#### Calibration at Site

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
<b>Alternating Current (&lt; 1 GHz) (Measure)</b>				
1.	Alternating Current (< 1 GHz) AC High Voltage @ 50 Hz	Using HV Probe with DMM & Direct Method as per IS 2071:1993	1 kV to 28 kV	4.26 % to 6.10 %
<b>Alternating Current (&lt; 1 GHz) ,(Source)</b>				
1.	Alternating Current (< 1 GHz) AC Voltage @ 50 Hz	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	3 mV to 100 mV	1.03 % to 0.20 %
2.	Alternating Current (< 1 GHz) AC Voltage @ 50 Hz	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	100 mV to 1000 V	0.20 %
3.	Alternating Current (< 1 GHz) AC Current @ 50 Hz	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	100 $\mu$ A to 1 A	0.40 % to 0.10 %
4.	Alternating Current (< 1 GHz) AC Current @ 50 Hz	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	1 A to 20 A	0.10 % to 0.21 %
5.	Alternating Current (< 1 GHz) AC Current @ 50 Hz	Using Multiproduct Calibrator with Current Coil & Direct Method as per IS 1248:2021	20 A to 1000 A	1.40 % to 0.70 %
6.	Alternating Current (< 1 GHz) AC Power @ 50 Hz (0.1 A to 20 A / 10 V to 600 V)-Single Phase	Using Multiproduct Calibrator with Current Coil & Direct Method	1 W to 12 kW	2.37 % to 0.23 %
7.	Alternating Current (< 1 GHz) Power Factor @ 50 Hz (240 V & 2 A)	Using Multiproduct Calibrator & Direct Method	0.5 PF to UPF	0.52 % to 0.21 %

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### ELECTRO-TECHNICAL

#### Calibration at Site

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
<b>Direct Current (Measure)</b>				
1	Direct Current DC High Voltage	Using HV Probe with DMM & Direct Method as per IS 2071:1993	1 kV to 40 kV	4 % to 6 %
<b>Direct Current (Source)</b>				
1.	Direct Current DC Current	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	100 $\mu$ A to 1 mA	0.40 % to 0.21 %
2.	Direct Current DC Current	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	1 mA to 100 mA	0.21 % to 0.02 %
3.	Direct Current DC Current	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	100 mA to 1 A	0.02 % to 0.05 %
4.	Direct Current DC Current	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	1 A to 10 A	0.05 % to 0.08 %
5.	Direct Current DC Current	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	10 A to 20 A	0.08 % to 0.13 %
6.	Direct Current DC Current	Using Multiproduct Calibrator with Current Coil & Direct Method as per IS 1248:2021	20 A to 1000 A	1.20 % to 0.77 %
7.	Direct Current DC Power (0.1A to 20 A / 10 V to 1000 V)- Single Phase	Using Multiproduct Calibrator with Current Coil & Direct Method	1 W to 20 kW	1.58 % to 0.4 %
8.	Direct Current DC Voltage	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	1 mV to 100 mV	0.68 % to 0.01 %

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### ELECTRO-TECHNICAL

#### Calibration at Site

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
9.	Direct Current DC Voltage	Using Multiproduct Calibrator & Direct Method as per IS 1248:2021	100 mV to 1000 V	± 0.01%
<b>Temperature Simulation (Source)</b>				
1.	Temperature Simulation B-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 , IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	600 °C to 1800 °C	0.80 °C
2.	Temperature Simulation E-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	(-) 200 °C to 1000 °C	0.80 °C
3.	Temperature Simulation K-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 , IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	(-) 200 °C to 1300 °C	0.80 °C
4.	Temperature Simulation N-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 , IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	(-) 200 °C to 1300 °C	0.80 °C
5.	Temperature Simulation R-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 , IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	0 °C to 1750 °C	0.80 °C

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Dealing Officer



# Federation for Development of Accreditation Services

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### ELECTRO-TECHNICAL

#### Calibration at Site

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
6.	Temperature Simulation RTD, PT-100 Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2806:1992	(-) 200 °C to 800 °C	0.27 °C
7.	Temperature Simulation S-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	0 °C to 1750 °C	0.80 °C
8.	Temperature Simulation T-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	(-) 200 °C to 400 °C	0.80 °C
9.	Temperature Simulation J-Type Thermocouple (Indicator / Controller / Recorder)	Using Multiproduct Calibrator & Direct Method as per IS 2054:1962 ,IS 2055:1962 ,IS 2056:1992 ,IS 2057:1992 , IS 7358:1964	(-) 200 °C to 1200 °C	0.80 °C

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### MECHANICAL

#### Laboratory based Calibration

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
<b>Dimension</b>				
1.	Steel Scale (L.C.: 0.5 mm)	Using Profile Projector by Comparison Method as per IS 1481:1970	0 to 300 mm	0.30 mm
2.	Surface Roughness Tester	Using Three Sets of Surface Roughness Master by Comparison Method as per IS 3073:1967	Up to Ra 3.2 $\mu$ m	8.10%
3.	Test Sieve - Aperture Size	Using Profile Projector by Comparison Method as per IS 460:2020	0.03 mm to 10 mm	5.10 $\mu$ m
4.	Test Sieve - Aperture Size	Using Digital Vernier Caliper by Comparison Method as per IS 460:2020	10 mm to 150 mm	16 $\mu$ m
5.	Thread Plug Gauge / Wear Check Plug - Effective Diameter	Using Three Wire Set & ULM with Setting Ring Gauge by Comparison Method as per IS 2334:2001 & IS 4218:2001	3 mm to 100 mm	5.10 $\mu$ m
6.	Thread Ring Gauge / Wear Check Ring - Effective Diameter	Using Universal Length Measuring Machine by Comparison Method as per IS 2334:2001 & IS 4218:2001	5 mm to 100 mm	3.70 $\mu$ m
7.	Radius Gauge	Using Profile Projector by Comparison Method as per IS 5273:1969	0.5 mm to 100 mm	4 $\mu$ m
8.	Snap Gauge, Gap Gauge, Dial Snap Gauge	Using Slip Gauge by Comparison Method as per IS 3455:1971	1 mm to 250 mm	3 $\mu$ m
9.	Plain Plug Gauge	Using ULM, Electronic Probe & Slip Gauge by Comparison Method as per IS 3455:1971	1 mm to 100 mm	2 $\mu$ m
10.	Plain Plug Gauge	Using ULM, Electronic Probe & Slip Gauge by Comparison Method as per IS 3455:1971	100 mm to 250 mm	3 $\mu$ m
11.	Plain Ring Gauge	Using ULM, Master Ring Gauge by Comparison Method as per IS 3485:1983	5 mm to 50 mm	3.45 $\mu$ m

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### MECHANICAL

#### Laboratory based Calibration

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
12.	Plain Ring Gauge	Using ULM, Master Ring Gauge by Comparison Method as per IS 3485:1983	50 mm to 150 mm	3.45 $\mu$ m
13.	Plunger Dial Gauge (L.C.:0.001 mm)	Using Dial Calibration Tester by Comparison Method as per IS 2092:1983	0 to 10 mm	1.40 $\mu$ m
14.	Plunger Dial Gauge (L.C.:0.001 mm)	Using Dial Calibration Tester by Comparison Method as per IS 2092:1983	0 to 25 mm	1.40 $\mu$ m
15.	Dial Bore Gauge (L.C.: 0.001mm) (Transmission Upto 1 mm)	Using Dial Calibration Tester by Comparison Method as per IS 2092:1983	0 to 250 mm	1.44 $\mu$ m
16.	Angle Gauge	Using Sine Bar, Slip Gauge Set & Lever Dial Gauge by Comparison Method as per IS 6231:1971	Upto 90°	3 second
17.	Bevel Angle Protector / Combination Set	Using Angle Gauge, Cylindrical Master & Surface Plate by Comparison Method as per IS 4239:1970	0° to 180°	3 minute of arc
18.	Caliper - Vernier / Dial / Digital (L.C.:0.01 mm)	Using Caliper Checker & Long Slip Gauges by Comparison Method as per IS 16491:2016	0 to 300 mm	10 $\mu$ m
19.	Caliper - Vernier / Dial / Digital (L.C.:0.01 mm)	Using Caliper Checker & Long Slip Gauges by Comparison Method as per IS 16491:2016	0 to 600 mm	14 $\mu$ m
20.	Coating Thickness Gauge	Using Standard Foils by Comparison Method as per IS 12434:1988	10 $\mu$ m to 729 $\mu$ m	2 $\mu$ m
21.	Comparator Stand - Flatness only	Using Slip Gauge Set & Lever Type Dial Gauge by Comparison Method as per IS 7599:1975	Upto 300 mm x 300 mm	3.15 $\mu$ m

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### MECHANICAL

#### Laboratory based Calibration

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
22.	Depth Gauge - Vernier / Dial /Digital (L.C.:0.01 mm)	Using Slip Gauge Set by Comparison Method as per IS 16491:2016	0 to 200 mm	6.24 $\mu$ m
23.	Depth Micrometer (L.C.: 0.001mm)	Using Slip Gauge Set by Comparison Method as per IS 2966:1964	0 to 200 mm	1.60 $\mu$ m
24.	External Micrometer (L.C.: 0.001mm)	Using Slip Gauge Set by Comparison Method as per IS 2967:1983	0 to 300 mm	1.70 $\mu$ m
25.	Feeler Gauge / Standard Foil	Using Digital Micrometer / Electronic Probe by Comparison Method as per IS 3179:1990	10 $\mu$ m to 1 mm	2.43 $\mu$ m
26.	Flush Pin Gauge	Using Slip Gauge with Comparator Stand/ULM by Comparison Method as per IS 3455:1971	Upto 20 mm (Step)	2.40 $\mu$ m
27.	Height Gauge - Vernier / Dial / Electronic (L.C.:0.001 mm)	Using Slip Gauge Set, Caliper Checker, Long Slip Gauge & Surface Plate by Comparison Method as per IS 2921:2016	0 to 600 mm	10.80 $\mu$ m
28.	Height Gauge - Vernier / Dial / Electronic (L.C.:0.001 mm)	Using Slip Gauge Set, Caliper Checker, Long Slip Gauge & Surface Plate by Comparison Method as per IS 2921:2016	0 to 1000 mm	15.40 $\mu$ m
29.	Internal Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set, Slip Gauge Accessories & Caliper Checker by Comparison Method as per IS 2966:1964	5 mm to 500 mm	6.50 $\mu$ m
30.	Lever Type Dial Gauge (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method as per IS 11498:1985	0 to 1 mm	1.40 $\mu$ m
31.	Measuring Pin, Three Wire Set	Using Slip Gauge & Electronic Probe by Comparison Method as per IS 6311:1978	0.1 mm to 25 mm	3 $\mu$ m

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### MECHANICAL

#### Laboratory based Calibration

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
32.	V-Block - Perpendicularity, Parallelism	Using Lever Type Dial Gauge, Mandrel, Surface Plate & Cylindrical Square by Comparison Method as per IS 2949:1992	Upto 200 mm	6.50 $\mu$ m
33.	Dial Thickness Gauge / Dial Snap Gauge (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method as per IS 14271:1995	0 to 10 mm	1.40 $\mu$ m
34.	Cube Mould	Using Vernier Caliper by Comparison Method as per IS 10086:1986	Upto 150 mm	100 $\mu$ m
35.	Elongation Gauge	Using Vernier Caliper by Comparison Method as per IS 2386:1963	6.3 mm to 63 mm	49 $\mu$ m
36.	Flakiness Gauge	Using Vernier Caliper by Comparison Method as per IS 2386:1963	6.3 mm to 63 mm	47.67 $\mu$ m
37.	Slump Cone, Core Cutter, Width Gauge, Receiving Gauge(ID,OD, CD,PCD, Height, Thickness)	By Using Vernier Caliper & Height Gauge by Comparison Method as per IS 2720:1975 & IS 1199:1963	Upto 300 mm	260 $\mu$ m
<b>Acoustics</b>				
1.	Sound Level Meter	Using Sound Level Calibrator as per IS 9779:1981	94 dB @ 1 kHz	0.85 dB
2.	Sound Level Meter	Using Sound Level Calibrator as per IS 9779:1981	114 dB @ 1 kHz	0.85 dB
<b>Weights</b>				
1.	Weight M1 Class and Coarser	Using Standard Weights of F1 Class & Weighing Balance (Readability :0.01 mg) as per OIML R 111-1:2004	1 g to 200 g	0.42 mg

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### MECHANICAL

#### Laboratory based Calibration

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (±)
2.	Weight M1 Class and Coarser	Using Standard Weights of F1 Class & Weighing Balance (Readability :0.01 mg) as per OIML R 111-1:2004	500 g	0.05 g
3.	Weight M1 Class and Coarser	Using Standard Weights of F1 Class & Weighing Balance (Readability :0.1 g) as per OIML R 111-1:2004	1 Kg	0.10 g
4.	Weight M1 Class and Coarser	Using Standard Weights of F1 Class & Weighing Balance (Readability :0.1 g) as per OIML R 111-1:2004	2 Kg	0.18 g
5.	Weight M1 Class and Coarser	Using Standard Weights of F1 Class & Weighing Balance (Readability :0.1 g) as per OIML R 111-1:2004	5 Kg	0.10 g
6.	Weight M1 Class and Coarser	Using Standard Weights of F1 Class & Weighing Balance (Readability :0.1 g) as per OIML R 111-1:2004	10 Kg	0.12 g
7.	Weight M1 Class and Coarser	Using Standard Weights of F1 Class & Weighing Balance (Readability :0.1 g) as per OIML R 111-1:2004	20 Kg	0.12 g
<b>Acceleration and Speed</b>				
1.	Rotary Shaker, Sieve Shaker, Centrifuge (Non-Contact Type)	Using Digital Tachometer Comparison Method.	100 to 40000	1.79 %
2.	RPM Meter, Tachometer (Non-Contact Type)	Using Digital Tachometer & RPM Calibrator (Electric Motor with Rotating Disc & Reflecting Tape) by comparison method.	100 rpm to 40000 rpm	1.79%

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### MECHANICAL

#### Calibration at Site

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (+)
<b>Dimension</b>				
1.	Profile Projector-Angular (L.C.: 1 second)	Using Angle Gauges by Comparison Method	0° to 360°	17.3 s
2.	Profile Projector-Linear (L.C.:0.001 mm)	Using Glass Scale, Digital Caliper & Slip Gauge by Comparison Method	0 to 200 mm	3.2 μm
3.	Profile Projector-Magnification)	Using Glass Scale, Digital Caliper & Slip Gauge by Comparison Method	10 X to 100 X	1.98 %
4.	Surface Plate - Flatness	Using Precision Level (L.C.: 10 μm/m) by Comparison Method as per IS 7327:2003 & IS 2285:2003	Upto 2500 mm x 1600 mm	2 $v\{(L+W)/150\}$ μm, L & W in mm
5.	Bench Center - Coaxially, Parallelism	Using Level, Dial Gauge, Test Mandrel (Cylindrical & Taper) by Comparison Method as per IS 5980:1978	Upto 1000 mm	6 μm
<b>Weighing Scale and Balance</b>				
1.	Weighing Balance Class I (Readability :10 mg & Coarser)	Using Standard Weights of F1 Class as per OIML R 76-1:2006 by Comparison Method	Upto 200 g	6.20 mg
2.	Weighing Balance Class II (Readability :1 g & Coarser)	Using Standard Weights of F1/F2 Class as per OIML R 76-1:2006 by Comparison Method	Upto 20 kg	2.60 g
3.	Weighing Balance / Batching Plant Class III (Readability :50 g)	Using Standard Weights of M1 Class as per OIML R 76-1:2006 by Comparison Method	Upto 300 kg	31 g
<b>Acceleration and Speed</b>				
1.	Rotary Shaker, Sieve Shaker, Centrifuge (Non-Contact Type)	Using Digital Tachometer Comparison Method.	100 to 40000	1.79 %

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### MECHANICAL

#### Calibration at Site

S. No.	Parameter	Standard(S), BIS, ISO, ASTM, Regulators, etc.	Range	Uncertainty in Measurement* (±)
2.	RPM Meter, Tachometer (Non-Contact Type)	Using Digital Tachometer & RPM Calibrator (Electric Motor with Rotating Disc & Reflecting Tape) by comparison method.	100 rpm to 40000 rpm	1.79%
<b>Pressure</b>				
1.	Pressure Gauge (Digital / Analog), Magnehelic Transducer, Transmitter with Readout, Manometer - Pneumatic	Using Differential Pressure Gauge with Screw Pump by Comparison Method as per DKD-R-6-1:2003	0 mbar to 200 mbar	1.20 mbar
2.	Pressure Gauge, Pressure Indicator, Pressure Switch, Pressure Transmitter	Using Digital Pressure Gauge with DMM & Hydraulic Comparator by Comparison Method as per DKD-R-6-1:2003	0 bar to 30 bar	0.15 bar
3.	Pressure Gauge, Pressure Indicator, Pressure Switch, Pressure Transmitter	Using Digital Pressure Gauge with DMM & Hydraulic Comparator by Comparison Method as per DKD-R-6-1:2003	0 bar to 700 bar	0.50 bar
4.	Vacuum Gauge, Vacuum Transducer, Vacuum Transmitter & Vacuum Switches - Negative Pressure	Using Digital Pressure Gauge with Comparator by Comparison Method as per DKD-R-6-1:2003	(-) 0.9 bar to 0 bar	0.048 bar

\* Expanded uncertainty expressed in coverage probability of approximately 95% (coverage factor K=2)

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