

# FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



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

This is to attest that

### **WINMET TECHNOLOGIES PRIVATE LIMITED**

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

### **Calibration Laboratory**

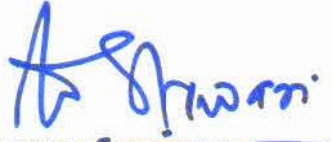
has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories and supplementary criteria for Calibration laboratories.

**Certificate Number:** CL-108

**Issue Date:** 20.07.2025

**Valid Until:** 19.07.2027

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. (for scope of accreditation visit website [www.fdasindia.org](http://www.fdasindia.org)).

  
DEVI SARAN TEWARI  
Director

# FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



## SCOPE OF ACCREDITATION

(Annexure to Certificate of CL-108)

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

**Validity:** 20.07.2025 to 19.07.2027

**Amended on:** NA

### Electro-Technical Calibration (Laboratory-Based)

| S. No. | Parameter | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard | Range | Uncertainty in<br>Measurement<br>(±) * |
|--------|-----------|---|-------|--|
|--------|-----------|---|-------|--|

| <b>Group: Alternating Current (&lt; 1 GHz)-Measure</b> |   |  |                     |                  |
|--|---|--|---------------------|------------------|
| 1  | Alternating Current(< 1 GHz)<br>AC Current @ 50 Hz    | Using 6½ DMM & Direct Method as per IS 1248:2021                 | 100 mA to 1 A       | 0.16%            |
| 2  | Alternating Current(< 1 GHz)<br>AC Current @ 50 Hz    | Using 6½ DMM & Direct Method as per IS 1248:2021                 | 1 A to 10 A         | 0.16%            |
| 3  | Alternating Current(< 1 GHz)<br>AC Current @ 50 Hz    | Using Shunt with Multi meter & Direct Method as per IS 1248:2021 | 20 A to 800 A       | 0.91%            |
| 4  | Alternating Current(< 1 GHz)<br>AC Current @ 50 Hz    | Using 6½ DMM & Direct Method as per IS 1248:2021                 | 30 µA to 100 mA     | 0.24 % to 0.16 % |
| 5  | Alternating Current (< GHz)<br>AC Resistance @ 1 kHz  | Using LCR Meter & Direct Method as per IS 2806:1992              | 1 ohm to 10 ohm     | 0.3 %            |
| 6  | Alternating Current(< 1 GHz)<br>AC Resistance @ 1 kHz | Using LCR Meter & Direct Method as per IS 2806:1992              | 10 ohm to 100 ohm   | 0.3 %            |
| 7  | Alternating Current(< 1 GHz)<br>AC Resistance @ 1 kHz | Using LCR Meter & Direct Method as per IS 2806:1992              | 100 ohm to 1 k ohm  | 0.3 %            |
| 8  | Alternating Current(< 1 GHz)<br>AC Resistance@ 1kHz   | Using LCR Meter & Direct Method as per IS 2806:1992              | 1 k ohm to 10 k ohm | 0.3 %            |

*Jitendra Parmar*  
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|--------|--|---|------------------|--|
| 9      | Alternating<br>Current(< 1 GHz)<br>AC Voltage @ 50 Hz                              | Using 6½ DMM & Direct<br>Method as per IS 1248:2021                           | 1 mV to 10 mV    | 0.8 % to 0.6 %                         |
| 10     | Alternating<br>Current(< 1 GHz)<br>AC Voltage @ 50 Hz                              | Using 6½ DMM & Direct<br>Method as per IS 1248:2021                           | 10 mV to 10 V    | 0.6 % to 0.07 %                        |
| 11     | Alternating<br>Current(< 1 GHz)<br>AC Voltage @ 50 Hz                              | Using 6½ DMM & Direct<br>Method as per IS 1248:2021                           | 10 V to 1000 V   | 0.07%                                  |
| 12     | Alternating<br>Current(< 1 GHz)<br>Power Factor @ 50<br>Hz (1 A to 5 A / 240<br>V) | Using Accucheck & CT<br>with Power Source & Load<br>Manager & Direct Method   | 0.5 PF to UPF    | 0.86 % to 0.23 %                       |
| 13     | Alternating<br>Current(< 1 GHz)<br>Capacitance<br>@ 1 kHz                          | Using LCR Meter &<br>6½ DMM & Direct Method                                   | 220 pF to 10 nF  | 6 % to 0.6 %                           |
| 14     | Alternating<br>Current(< 1 GHz)<br>Capacitance<br>@ 1 kHz                          | Using LCR Meter &<br>6½ DMM & Direct Method                                   | 10 nF to 1000 nF | 0.6 % to 2.02 %                        |
| 15     | Alternating<br>Current(< 1 GHz)<br>Capacitance<br>@ 1 kHz                          | Using LCR Meter &<br>6½ DMM & Direct Method                                   | 1000 nF to 1 mF  | 2.02 % to 1.3 %                        |
| 16     | Alternating<br>Current(< 1 GHz)<br>Inductance @ 1 kHz                              | Using LCR Meter & Direct<br>Method  | 1 mH to 10 H     | 0.3 % to 0.42 %                        |

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### Electro-Technical Calibration (Laboratory-Based)

| S. No. | Parameter | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard | Range | Uncertainty in<br>Measurement<br>(±) * |
|--------|-----------|---|-------|--|
|--------|-----------|---|-------|--|

| Group : Alternating Current (< 1 GHz)-Source |  |   |                  |                  |
|--|--|---|------------------|------------------|
| 01   | Alternating Current(< 1 GHz)<br>AC Voltage @ 50 Hz   | Using Multiproduct Calibrator & Direct Method as per IS 1248:2021                   | 3 mV to 100 mV   | 0.9 % to 0.2 %   |
| 02   | Alternating Current (< 1 GHz) AC Voltage @ 50 Hz     | Using Multiproduct Calibrator & Direct Method as per IS 1248:2021                   | 100 mV to 1000 V | 0.2%             |
| 03   | Alternating Current(< 1 GHz)<br>AC Current @ 50 Hz   | Using Multiproduct Calibrator & Direct Method as per IS 1248:2021                   | 100 µA to 1 A    | 0.4 % to 0.1 %   |
| 04   | Alternating Current(< 1 GHz)<br>AC Current @ 50 Hz   | Using Multiproduct Calibrator & Direct Method as per IS 1248:2021                   | 1 A to 20 A      | 0.1 % to 0.21 %  |
| 05   | Alternating Current(< 1 GHz)<br>AC Current @ 50 Hz   | Using Multiproduct Calibrator with Current Coil & Direct Method as per IS 1248:2021 | 20 A to 1000 A   | 1.4 % to 0.7 %   |
| 06   | Alternating Current(< 1 GHz)<br>Capacitance @ 100 Hz | Using Multi Product Calibrator/ Decade Capacitance Box & Direct Method              | 1 µF to 100 µF   | 0.41 % to 1.07 % |
| 07   | Alternating Current(< 1 GHz)<br>Capacitance @ 1 kHz  | Using Multiproduct Calibrator/Decade Capacitance Box & Direct Method                | 300 nF to 1 µF   | 0.41%            |
| 08   | Alternating Current(< 1 GHz)<br>Capacitance @ 1 kHz  | Using Multiproduct Calibrator/ Decade Capacitance Box & Direct Method               | 1 nF to 300 nF   | 1.7 % to 0.41%   |

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### Electro-Technical Calibration (Laboratory-Based)

| S. No.                                 | Parameter   | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard | Range            | Uncertainty in<br>Measurement<br>(±) * |
|--|---|---|------------------|--|
| 09                                     | Alternating<br>Current(< 1 GHz)<br>Inductance @ 1 kHz                                     | Using Decade<br>Inductance Box & Direct<br>Method                             | 100 µH to 10 mH  | 1.2%                                   |
| 10                                     | Alternating<br>Current(< 1 GHz)<br>Inductance @ 1 kHz                                     | Using Decade<br>Inductance Box & Direct<br>Method                             | 10 mH to 100 mH  | 1.0%                                   |
| 11                                     | Alternating<br>Current(< 1 GHz)<br>Inductance @ 1 kHz                                     | Using Decade<br>Inductance Box & Direct<br>Method                             | 100 mH to 10 H   | 1.38 %                                 |
| 12                                     | Alternating<br>Current(< 1 GHz)<br>AC Power @<br>50 Hz (0.1 A to 20 A<br>/ 10 V to 600 V) | Using Multiproduct<br>Calibrator with Current Coil<br>& Direct Method         | 1 W to 12 kW     | 2.37 % to<br>0.231 %                   |
| 13                                     | Alternating<br>Current(< 1 GHz)<br>Power Factor<br>@ 50 Hz (240 V & 2<br>A)               | Using Multiproduct<br>Calibrator & Direct Method                              | 0.5 PF to UPF    | 0.54 % to 0.21 %                       |
| <b>Group: Direct Current (Measure)</b> |   |   |                  |  |
| 01                                     | Direct Current<br>DC Current  | Using 6½ DMM &<br>Direct Method as per IS<br>1248:2021                        | 10 µA to 100 µA  | 0.72 % to 0.14 %                       |
| 02                                     | Direct<br>Current<br>DC Current   | Using 6½ DMM &<br>Direct Method as per IS<br>1248:2021                        | 100 µA to 100 mA | 0.14%                                  |
| 03                                     | Direct<br>Current<br>DC Current   | Using 6½ DMM &<br>Direct Method as per IS<br>1248:2021                        | 100 mA to 1 A    | 0.14%                                  |

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### Electro-Technical Calibration (Laboratory-Based)

| S. No.                                | Parameter                       | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard  | Range                      | Uncertainty in<br>Measurement<br>(±) * |
|---------------------------------------|---------------------------------|--|----------------------------|--|
| 04                                    | Direct Current<br>DC Current    | Using 6½ DMM &<br>Direct Method as per IS<br>1248:2021                         | 1 A to 10 A                | 0.14%                                  |
| 05                                    | Direct Current<br>DC Current    | Using Shunt / Current<br>Probe with DMM & Direct<br>Method as per IS 1248:2021 | 20 A to 800 A              | 0.14 % to 1.15 %                       |
| 06                                    | Direct Current<br>DC Resistance | Using 6½ DMM &<br>Direct Method as per<br>IS 2806:1992                         | 1 ohm to 100<br>ohm        | 0.02 % to 0.06 %                       |
| 07                                    | Direct Current<br>DC Resistance | Using 6½ DMM &<br>Direct Method as per<br>IS 2806:1992                         | 100 ohm to<br>100 M ohm    | 0.06%                                  |
| 08                                    | Direct Current<br>DC Resistance | Using 6½ DMM &<br>Direct Method as per<br>IS 2806:1992                         | 100 M ohm to<br>1000 M ohm | 0.06 % to 0.5 %                        |
| 09                                    | Direct Current<br>DC Voltage    | Using 6½ DMM &<br>Direct Method as per<br>IS 1248:2021                         | 1 mV to 1 V                | 0.5 % to 0.009 %                       |
| 10                                    | Direct Current<br>DC Voltage    | Using 6½ DMM &<br>Direct Method as per<br>IS 1248:2021                         | 1 V to 10 V                | 0.009 % to 0.008 %                     |
| 11                                    | Direct Current<br>DC Voltage    | Using 6½ DMM &<br>Direct Method as per<br>IS 1248:2021                         | 10 V to 1000 V             | 0.008 % to 0.003 %                     |
| <b>Group: Direct Current (Source)</b> |                                 |  |                            |  |
| 01                                    | Direct Current<br>DC Current    | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 1248:2021        | 100 µA to 1 mA             | 0.4 % to 0.21 %                        |

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| S. No. | Parameter   | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard                | Range                   | Uncertainty in<br>Measurement<br>( $\pm$ ) * |
|--------|---|--|-------------------------|--|
| 02     | Direct Current<br>DC Current                                  | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 1248:2021                      | 1 mA to 100 mA          | 0.21 % to 0.02 %                             |
| 03     | Direct Current<br>DC Current                                  | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 1248:2021                      | 100 mA to 1 A           | 0.02 % to 0.05 %                             |
| 04     | Direct Current<br>DC Current                                  | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 1248:2021                      | 1 A to 10 A             | 0.05 % to 0.08 %                             |
| 05     | Direct Current<br>DC Current                                  | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 1248:2021                      | 10 A to 20 A            | 0.08 % to 0.13 %                             |
| 06     | Direct Current<br>DC Current                                  | Using Multiproduct<br>Calibrator with Current Coil<br>& Direct Method as per<br>IS 1248:2021 | 20 A to 1000 A          | 1.2 % to 0.5 %                               |
| 07     | Direct Current<br>DC Power (0.1A to 20<br>A / 10 V to 1000 V) | Using Multiproduct<br>Calibrator with Current Coil<br>& Direct Method                        | 1 W to 20 kW            | 1.58 % to 0.4 %                              |
| 08     | Direct Current<br>DC Voltage                                  | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 1248:2021                      | 1 mV to 100 mV          | 0.68 % to 0.01 %                             |
| 09     | Direct Current<br>DC Voltage                                  | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 1248:2021                      | 100 mV to 1000 V        | 0.01%  |
| 10     | Direct Current<br>( < 1 GHz )<br>Resistance                   | Using Decade Resistance Box<br>& Direct Method as per<br>IS 2806:1992                        | 1 m Ohm to 100 m<br>Ohm | 5.22 % to 0.70 %                             |

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### Electro-Technical Calibration (Laboratory-Based)

| S. No.  | Parameter                                 | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard                     | Range                     | Uncertainty in<br>Measurement<br>(±) * |
|---|---|---|---------------------------|--|
| 11  | Direct Current<br>(< 1 GHz)<br>Resistance | Using Multi Product<br>Calibrator/Decade<br>Resistance Box & Direct<br>Method as per IS 2806:1992 | 1 Ohm to 100 Ohm          | 0.536 % to 0.014 %                     |
| 12  | Direct Current<br>(< 1 GHz)<br>Resistance | Using Multi Product<br>Calibrator/Decade<br>Resistance Box & Direct<br>Method as per IS 2806:1992 | 100 Ohm to 100<br>k Ohm   | 0.01%                                  |
| 13  | Direct Current<br>(< 1 GHz)<br>Resistance | Using Multi Product<br>Calibrator/Decade<br>Resistance Box & Direct<br>Method as per IS 2806:1992 | 100 k Ohm to<br>10 M ohm  | 0.01 % to 0.1 %                        |
| 14  | Direct Current<br>(< 1 GHz)<br>Resistance | Using Multi Product<br>Calibrator/Decade<br>Resistance Box & Direct<br>Method as per IS 2806:1992 | 10 M Ohm to<br>1000 M ohm | 0.1 % to 0.40 %                        |
| 15  | Direct Current<br>(< 1 GHz)<br>Resistance | Using Discrete<br>Resistance Box & Direct<br>Method as per IS 2806:1992                           | 2 & 20 G ohm              | 1.81 % to 4.75%                        |
| <b>Group: Time &amp; Frequency, (Measure)</b> |   |   |                           |  |
| 01  | Time & Frequency<br>(Frequency)           | Using 6½ DMM &<br>Direct Method as per<br>IS 1248:2021  | 10 Hz to 1000 kHz         | 0.08 % to 0.05 %                       |
| 02  | Time & Frequency<br>(Time)                | Using Time Calibrator<br>& Direct Method  | 10 s to 1 hr              | 0.2 s to 2.16 s                        |
| 03  | Time & Frequency<br>(Time)                | Using Time Calibrator<br>& Direct Method  | 1 hrs to 5 hrs            | 2.16 s to 10.44 s                      |
| 04  | Time & Frequency<br>(Time)                | Using Time Calibrator<br>& Direct Method  | 5 hrs to 24 hrs           | 10.44 s to 50 s                        |

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|--------|-----------|---|-------|--|
|--------|-----------|---|-------|--|

#### **Group: Time & Frequency (Source)**

|    |                               |   |                |                 |
|----|-------------------------------|---|----------------|-----------------|
| 01 | Time & Frequency<br>Frequency | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 1248:2021 | 10 Hz to 1 MHz | 0.06 % to 0.6 % |
|----|-------------------------------|---|----------------|-----------------|

#### **Group: Temperature Simulation (Measure)**

|    |   |   |                       |         |
|----|---|---|-----------------------|---------|
| 01 | Temperature<br>Simulation J-Type<br>Thermocouple<br>(Source / Calibrator) | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964 | (-) 200 °C to 1000 °C | 0.73 °C |
| 02 | Temperature<br>Simulation B-Type<br>Thermocouple<br>(Source / Calibrator) | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964 | 600 °C to 1800 °C     | 0.8 °C  |
| 03 | Temperature<br>Simulation E-Type<br>Thermocouple<br>(Source / Calibrator) | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964 | (-) 200 °C to 1000 °C | 0.8 °C  |
| 04 | Temperature<br>Simulation K-Type<br>Thermocouple<br>(Source / Calibrator) | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964 | (-) 200 °C to 1300 °C | 0.8 °C  |
| 05 | Temperature<br>Simulation<br>N-Type                                       | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,  | (-) 200 °C to 1300 °C | 0.8 °C  |

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|---|--|--|----------------------|--|
|   | Thermocouple<br>(Source / Calibrator)  | IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964  |                      |  |
| 06  | Temperature<br>Simulation R-Type<br>Thermocouple<br>(Source / Calibrator)                | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962 ,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964 | 0 °C to 1750 °C      | 0.8 °C                                 |
| 07  | Temperature<br>Simulation S-Type<br>Thermocouple<br>(Source / Calibrator)                | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964  | 0 °C to 1750 °C      | 0.8 °C                                 |
| 08  | Temperature<br>Simulation T-Type<br>Thermocouple<br>(Source / Calibrator)                | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964  | (-) 200 °C to 400 °C | 0.8 °C                                 |
| 09  | Temperature<br>Simulation RTD,<br>PT-100<br>(Source / Calibrator)                        | Using 6½ DMM & Direct<br>Method as per IS 2806:1992  | (-) 200 °C to 600 °C | 0.3 °C                                 |
| <b>Group: Temperature Simulation (Source)</b> |  |  |                      |  |
| 01  | Temperature<br>Simulation B-Type<br>Thermocouple<br>(Indicator/Controller<br>/ Recorder) | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964  | 600 °C to 1800 °C    | 0.8 °C                                 |

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| S. No. | Parameter   | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard  | Range                 | Uncertainty in<br>Measurement<br>( $\pm$ ) * |
|--------|---|--|-----------------------|--|
| 02     | Temperature<br>Simulation E-Type<br>Thermocouple<br>(Indicator/ Controller<br>/ Recorder)             | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964    | (-) 200 °C to 1000 °C | 0.8 °C                                       |
| 03     | Temperature<br>Simulation K-Type<br>Thermocouple<br>(Indicator/ Controller<br>/ Recorder)             | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962, IS<br>2055:1962, IS 2056:1992, IS<br>2057:1992, IS 7358:1964    | (-) 200 °C to 1300 °C | 0.8 °C                                       |
| 04     | Temperature<br>Simulation N-Type<br>Thermocouple<br>(Indicator /<br>Controller /<br>Recorder)         | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962 ,<br>IS 2055:1962 ,IS 2056:1992 ,<br>IS 2057:1992 , IS 7358:1964 | (-) 200 °C to 1300 °C | 0.8 °C                                       |
| 05     | Temperature<br>Simulation R-Type<br>Thermocouple<br>(Indicator /<br>Controller /<br>Recorder)         | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962 ,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964   | 0 °C to 1750 °C       | 0.8 °C                                       |
| 06     | Temperature<br>Simulation RTD,<br>PT-100<br>Thermocouple<br>(Indicator /<br>Controller /<br>Recorder) | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2806:1992  | (-) 200 °C to 800 °C  | 0.25 °C                                      |

*Jitendra Parmar*  
Dealing Officer

# FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



## SCOPE OF ACCREDITATION

(Annexure to Certificate of CL-108)

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

**Validity:** 20.07.2025 to 19.07.2027

**Amended on:** NA

### Electro-Technical Calibration (Laboratory-Based)

| S. No. | Parameter   | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard   | Range                 | Uncertainty in<br>Measurement<br>(±) * |
|--------|---|---|-----------------------|--|
| 07     | Temperature<br>Simulation S-Type<br>Thermocouple<br>(Indicator /<br>Controller /<br>Recorder) | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964 | 0 °C to 1750 °C       | 0.8 °C                                 |
| 08     | Temperature<br>Simulation T-Type<br>Thermocouple<br>(Indicator /<br>Controller /<br>Recorder) | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964 | (-) 200 °C to 400 °C  | 0.8 °C                                 |
| 09     | Temperature<br>Simulation J-Type<br>Thermocouple<br>(Indicator /<br>Controller /<br>Recorder) | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964 | (-) 200 °C to 1200 °C | 0.8 °C                                 |

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**Amended on:** NA

### Electro technical Calibration (At Site)

| S. No. | Parameter | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard | Range | Uncertainty in<br>Measurement<br>(±) * |
|--------|-----------|---|-------|--|
|--------|-----------|---|-------|--|

| Group: Alternating Current(< 1 GHz)-Source |  |   |                  |                   |
|--|--|---|------------------|-------------------|
| 01   | Alternating Current(< 1 GHz)<br>AC Voltage @ 50 Hz                               | Using Multiproduct Calibrator & Direct Method as per IS 1248:2021                   | 3 mV to 100 mV   | 0.9 % to 0.2 %    |
| 02   | Alternating Current(< 1 GHz)<br>AC Voltage @ 50 Hz                               | Using Multiproduct Calibrator & Direct Method as per IS 1248:2021                   | 100 mV to 1000 V | 0.2%              |
| 03   | Alternating Current(< 1 GHz)<br>AC Current @ 50 Hz                               | Using Multiproduct Calibrator & Direct Method as per IS 1248:2021                   | 100 µA to 1 A    | 0.4 % to 0.1 %    |
| 04   | Alternating Current(< 1 GHz)<br>AC Current @ 50 Hz                               | Using Multiproduct Calibrator & Direct Method as per IS 1248:2021                   | 1 A to 20 A      | 0.1 % to 0.21 %   |
| 05   | Alternating Current(< 1 GHz)<br>AC Current @ 50 Hz                               | Using Multiproduct Calibrator with Current Coil & Direct Method as per IS 1248:2021 | 20 A to 1000 A   | 1.4 % to 0.7 %    |
| 06   | Alternating Current(< 1 GHz)<br>AC Power @ 50 Hz (0.1 A to 20 A / 10 V to 600 V) | Using Multiproduct Calibrator with Current Coil & Direct Method                     | 1 W to 12 kW     | 2.37 % to 0.231 % |
| 07   | Alternating Current(< 1 GHz)<br>Power Factor @ 50 Hz (240 V & 2 A)               | Using Multiproduct Calibrator & Direct Method                                       | 0.5 PF to UPF    | 0.33 % to 0.21 %  |

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**Validity:** 20.07.2025 to 19.07.2027

**Amended on:** NA

### Electro technical Calibration (At Site)

| S. No. | Parameter | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard | Range | Uncertainty in<br>Measurement<br>( $\pm$ ) * |
|--------|-----------|---|-------|--|
|--------|-----------|---|-------|--|

#### Group: Alternating Current(< 1 GHz)-Measure

|    |   |   |               |                 |
|----|---|---|---------------|-----------------|
| 01 | 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 6.1 % |
|----|---|---|---------------|-----------------|

#### Group: Direct Current (Source)

|    |   |   |                     |                  |
|----|---|---|---------------------|------------------|
| 01 | Direct Current DC Current                             | Using Multiproduct Calibrator & Direct Method as per IS 1248:2021                   | 100 $\mu$ A to 1 mA | 0.4 % to 0.21 %  |
| 02 | Direct Current DC Current                             | Using Multiproduct Calibrator & Direct Method as per IS 1248:2021                   | 1 mA to 100 mA      | 0.21 % to 0.02 % |
| 03 | Direct Current DC Current                             | Using Multiproduct Calibrator & Direct Method as per IS 1248:2021                   | 100 mA to 1 A       | 0.02 % to 0.05 % |
| 04 | Direct Current DC Current                             | Using Multiproduct Calibrator & Direct Method as per IS 1248:2021                   | 1 A to 10 A         | 0.05 % to 0.08 % |
| 05 | Direct Current DC Current                             | Using Multiproduct Calibrator & Direct Method as per IS 1248:2021                   | 10 A to 20 A        | 0.08 % to 0.13 % |
| 06 | 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 0.5 %   |
| 07 | Direct Current DC Power (0.1A to 20 A/10 V to 1000 V) | Using Multiproduct Calibrator with Current Coil & Direct Method                     | 1 W to 20 kW        | 1.58 % to 0.4 %  |

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**Amended on:** NA

### Electro technical Calibration (At Site)

| S. No.                                       | Parameter   | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard   | Range                 | Uncertainty in<br>Measurement<br>(±) * |
|--|---|---|-----------------------|--|
| 08   | Direct Current<br>DC Voltage  | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 1248:2021   | 1 mV to 100 mV        | 0.68 % to 0.01 %                       |
| 09   | Direct Current<br>DC Voltage  | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 1248:2021   | 100 mV to 1000 V      | 0.01%                                  |
| <b>Group: Direct Current-Measure</b>         |   |   |                       |  |
| 01   | Direct Current DC<br>High Voltage   | Using HV Probe with<br>DMM & Direct Method as<br>per IS 2071:1993   | 1 kV to 40 kV         | 4 % to 6 %                             |
| <b>Group: Temperature Simulation -Source</b> |   |   |                       |  |
| 01   | Temperature<br>Simulation B-Type<br>Thermocouple<br>(Indicator /<br>Controller /<br>Recorder) | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964 | 600 °C to 1800 °C     | 0.8 °C                                 |
| 02   | Temperature<br>Simulation E-Type<br>Thermocouple<br>(Indicator /<br>Controller /<br>Recorder) | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962, IS<br>2055:1962, IS 2056:1992, IS<br>2057:1992, IS 7358:1964 | (-) 200 °C to 1000 °C | 0.8 °C                                 |
| 03   | Temperature<br>Simulation K-Type<br>Thermocouple<br>(Indicator /<br>Controller /<br>Recorder) | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964 | (-) 200 °C to 1300 °C | 0.8 °C                                 |

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### Electro technical Calibration (At Site)

| S. No. | Parameter   | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard   | Range                 | Uncertainty in<br>Measurement<br>( $\pm$ ) * |
|--------|---|---|-----------------------|--|
| 04     | Temperature<br>Simulation N-Type<br>Thermocouple<br>(Indicator /Controller<br>/Recorder)              | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964 | (-) 200 °C to 1300 °C | 0.8 °C                                       |
| 05     | Temperature<br>Simulation R-Type<br>Thermocouple<br>(Indicator /<br>Controller/Recorder)              | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962, IS<br>2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964 | 0 °C to 1750 °C       | 0.8 °C                                       |
| 06     | Temperature<br>Simulation RTD,<br>PT-100<br>Thermocouple<br>(Indicator /<br>Controller /<br>Recorder) | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2806:1992   | (-) 200 °C to 800 °C  | 0.25 °C                                      |
| 07     | Temperature<br>Simulation S-Type<br>Thermocouple<br>(Indicator /<br>Controller /<br>Recorder)         | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964 | 0 °C to 1750 °C       | 0.8 °C                                       |
| 08     | Temperature<br>Simulation T-Type<br>Thermocouple<br>(Indicator /<br>Controller/<br>Recorder)          | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964 | (-) 200 °C to 400 °C  | 0.8 °C                                       |

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### Electro technical Calibration (At Site)

| S. No.               | Parameter   | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard   | Range                 | Uncertainty in<br>Measurement<br>( $\pm$ ) * |
|----------------------|---|---|-----------------------|--|
| 09                   | Temperature<br>Simulation J-Type<br>Thermocouple<br>(Indicator /<br>Controller /<br>Recorder) | Using Multiproduct<br>Calibrator & Direct Method<br>as per IS 2054:1962,<br>IS 2055:1962, IS 2056:1992,<br>IS 2057:1992, IS 7358:1964 | (-) 200 °C to 1200 °C | 0.8 °C                                       |
| <b>Group: Others</b> |   |   |                       |  |
| 01                   | Magnet  | Using the Digital Goss<br>Meter by Comparison<br>Method as per<br>ISO 16063-33:2017   | 100 to 10400 Gauss    | 6 % rdg                                      |

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### Mechanical Calibration (Laboratory-Based)

| S. No. | Parameter | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard | Range | Uncertainty in<br>Measurement<br>(±) * |
|--------|-----------|---|-------|--|
|--------|-----------|---|-------|--|

| Group: Dimension (Basic Measuring Instrument, Gauge etc.) |   |   |                  |        |
|---|---|---|------------------|--------|
| 01  | Steel Scale<br>(L.C.: 0.5 mm)                                     | Using Profile Projector by<br>Comparison Method as per<br>IS 1481:1970  | 0 to 300 mm      | 0.3 mm |
| 02  | Surface Roughness<br>Tester                                       | Using Three Sets of Surface<br>Roughness Master by<br>Comparison Method as per<br>IS 3073:1967                    | Up to Ra 3.2 µm  | 8.10%  |
| 03  | Test Sieve -<br>Aperture Size                                     | Using Profile Projector by<br>Comparison Method as per<br>IS 460:2020   | 0.03 mm to 10 mm | 5.1 µm |
|   | Test Sieve -<br>Aperture Size                                     | Using Digital Vernier Caliper<br>by Comparison Method as<br>per IS 460:2020                                       | 10 mm to 150 mm  | 16 µm  |
| 04  | Thread Plug<br>Gauge / Wear<br>Check Plug -<br>Effective Diameter | Using Three Wire Set & ULM<br>with Setting Ring Gauge by<br>Comparison Method as per<br>IS 2334:2001&IS 4218:2001 | 3 mm to 100 mm   | 5.1 µm |
| 05  | Thread Ring<br>Gauge / Wear<br>Check Ring -<br>Effective Diameter | Using Universal Length<br>Measuring Machine by<br>Comparison Method as per<br>IS 2334:2001 &<br>IS 4218:2001      | 5 mm to 100 mm   | 3.7 µm |
| 06  | Radius Gauge  | Using Profile Projector by<br>Comparison Method as per<br>IS 5273:1969  | 0.5 mm to 100 mm | 4 µm   |
| 07  | Snap Gauge, Gap<br>Gauge, Dial Snap<br>Gauge                      | Using Slip Gauge by<br>Comparison Method as per<br>IS 3455:1971   | 1 mm to 250 mm   | 3.0 µm |

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### Mechanical Calibration (Laboratory-Based)

| S. No. | Parameter  | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard                  | Range            | Uncertainty in<br>Measurement<br>(±) * |
|--------|--|--|------------------|--|
| 08     | Plain Plug Gauge   | Using ULM, Electronic Probe & Slip Gauge by Comparison Method as per IS 3455:1971              | 1 mm to 100 mm   | 2.0 µm                                 |
| 09     | Plain Plug Gauge   | Using ULM, Electronic Probe & Slip Gauge by Comparison Method as per IS 3455:1971              | 100 mm to 250 mm | 3 µm                                   |
| 10     | Plain Ring Gauge   | Using ULM, Master Ring Gauge by Comparison Method as per IS 3485:1983                          | 5 mm to 50 mm    | 3.28 µm                                |
|        |  | Using ULM, Master Ring Gauge by Comparison Method as per IS 3485:1983                          | 50 mm to 150 mm  | 3.3 µm                                 |
| 11     | Plunger Dial Gauge (L.C.:0.001 mm)                       | Using Dial Calibration Tester by Comparison Method as per IS 2092:1983                         | 0 to 25 mm       | 1.4 µm                                 |
| 12     | Dial Bore Gauge (L.C: 0.001mm) (Transmission up to 1 mm) | Using Dial Calibration Tester by Comparison Method   | 0 to 250 mm      | 1.4 µm                                 |
| 13     | Angle Gauge  | Using Sine Bar, Slip Gauge Set & Lever Dial Gauge by Comparison Method as per IS 6231:1971     | Upto 90°         | 3 second                               |
| 14     | Bevel Angle Protector / Combination Set                  | Using Angle Gauge, Cylindrical Master & Surface Plate by Comparison Method as per IS 4239:2023 | 0° to 180°       | 3 minutes of arc                       |

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### Mechanical Calibration (Laboratory-Based)

| S. No. | Parameter  | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard                  | Range                   | Uncertainty in<br>Measurement<br>(±) * |
|--------|--|--|-------------------------|--|
| 15     | Caliper - Vernier /<br>Dial / Digital<br>(L.C.:0.01 mm)        | Using Caliper Checker &<br>Long Slip Gauges by<br>Comparison Method as per<br>IS 16491:2024    | 0to 300 mm              | 10 µm                                  |
| 16     | Caliper - Vernier /<br>Dial / Digital<br>(L.C.:0.01 mm)        | Using Caliper Checker &<br>Long Slip Gauges by<br>Comparison Method as per<br>IS 16491:2024    | 0to 600 mm              | 14 µm                                  |
| 17     | Coating Thickness<br>Gauge                                     | Using Standard Foils by<br>Comparison Method as per<br>IS 12434:1988                           | 10 µm to 729 µm         | 2.40 µm                                |
| 18     | Comparator Stand -<br>Flatness only                            | Using Slip Gauge Set & Lever<br>Type Dial Gauge by<br>Comparison Method as per<br>IS 7599:1975 | Upto 300 mm x 300<br>mm | 3 µm                                   |
| 19     | Depth Gauge -<br>Vernier / Dial /<br>Digital<br>(L.C.:0.01 mm) | Using Slip Gauge Set by<br>Comparison Method as per<br>IS 16491:2016                           | 0 to 200 mm             | 6 µm                                   |
| 20     | Depth Micrometer<br>(L.C.: 0.001mm)                            | Using Slip Gauge Set by<br>Comparison Method as per<br>BS 6468:2008                            | 0 to 200 mm             | 1.6 µm                                 |
| 21     | External<br>Micrometer<br>(L.C.: 0.001mm)                      | Using Slip Gauge Set by<br>Comparison Method as per<br>IS 2967:1983                            | 0 to 300 mm             | 1.7 µm                                 |
| 22     | Feeler Gauge /<br>Standard Foil                                | Using Digital Micrometer /<br>Electronic Probe by<br>Comparison Method as per<br>IS 3179:2024  | 10 µm to 1 mm           | 2 µm                                   |

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### Mechanical Calibration (Laboratory-Based)

| S. No. | Parameter  | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard   | Range              | Uncertainty in<br>Measurement<br>(±) * |
|--------|--|---|--------------------|--|
| 23     | Flush Pin Gauge  | Using Slip Gauge with<br>Comparator Stand/ULM by<br>Comparison Method as per<br>IS 3455:1971                                  | Up to 20 mm (Step) | 2.4 µm                                 |
| 24     | Height Gauge -<br>Vernier / Dial /<br>Electronic<br>(L.C.:0.01 mm) | Using Slip Gauge Set,<br>Caliper Checker & Surface<br>Plate by Comparison Method<br>as per IS 2921:2016                       | 0 to 600 mm        | 10.90 µm                               |
| 25     | Height Gauge -<br>Vernier / Dial /<br>Electronic<br>(L.C: 0.01 mm) | Using Slip Gauge Set,<br>Caliper Checker & Surface<br>Plate by Comparison Method<br>as per IS 2921:2016                       | 0 to 1000 mm       | 15.4 µm                                |
| 26     | Internal<br>Micrometer<br>(L.C.: 0.001 mm)                         | Using Slip Gauge Set, Slip<br>Gauge Accessories & Caliper<br>Checker by Comparison<br>Method as per IS 2966:1964              | 5 mm to 500 mm     | 5.8 µm                                 |
| 27     | Lever Type Dial<br>Gauge<br>(L.C.: 0.001 mm)                       | Using Dial Calibration Tester<br>by Comparison Method as<br>per IS 11498:2023   | 0 to 1 mm          | 1.4 µm                                 |
| 28     | Measuring Pin,<br>Three Wire Set                                   | Using Slip Gauge &<br>Electronic Probe by<br>Comparison Method as per<br>IS 6311:1978   | 0.1 mm to 25 mm    | 3 µm                                   |
| 29     | V-Block -<br>Perpendicularity,<br>Parallelism                      | Using Lever Type Dial<br>Gauge, Mandrel, Surface<br>Plate & Cylindrical Square by<br>Comparison Method as per<br>IS 2949:1992 | Upto 200 mm        | 6.5 µm                                 |

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### Mechanical Calibration (Laboratory-Based)

| S. No. | Parameter  | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard                   | Range             | Uncertainty in<br>Measurement<br>(±) * |
|--------|--|---|-------------------|--|
| 30     | 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        | 1.4 µm                                 |
| 31     | Cube Mould   | Using Vernier Caliper by Comparison Method as per IS 10086:1986                                 | Up to 150 mm      | 20 µm                                  |
| 32     | Elongation Gauge   | Using Vernier Caliper by Comparison Method as per IS 2386:1963                                  | 4.89 mm to 100 mm | 18 µm                                  |
| 33     | Flakiness Gauge  | Using Vernier Caliper by Comparison Method as per IS 2386:1963                                  | 6 mm to 81 mm     | 17.6 µm                                |
| 34     | 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 | Up to 300 mm      | 44.2 µm                                |
| 35     | Universal Length Measuring Machine (L.C: 0.1µm)  | Using Slip Gauge Set by Comparison Method   | 0 mm to 100 mm    | 1.5 µm                                 |
|        |  |   | 100 mm to 200 mm  | 3 µm                                   |
| 36     | Dial Calibration Tester (L.C.: 0.0001 mm)  | Using Slip Gauge & Electronic Probe Set by Comparison Method                                    | 0 to 25 mm        | 0.6 µm                                 |
| 37     | Sine Bar-Angle   | Using Slip Gauge, Lever Type Dial Gauge, Angle Gauge & Surface Plate by Comparison Method       | 15° to 50°        | 15.11 Sec                              |

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# FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



## SCOPE OF ACCREDITATION

(Annexure to Certificate of CL-108)

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

**Validity:** 20.07.2025 to 19.07.2027

**Amended on:** NA

### Mechanical Calibration (Laboratory-Based)

| S. No.                  | Parameter                                   | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard  | Range            | Uncertainty in<br>Measurement<br>(±) * |
|-------------------------|---|--|------------------|--|
| 38                      | Sine Bar-Center<br>Distance                 | Using Slip Gauge, Lever Type<br>Dial Gauge & Surface Plate<br>by Comparison Method   | Up to 300 mm     | 4.70 µm                                |
| 39                      | Slip Gauge<br>Accessories Set-<br>Flatness  | Using Slip Gauge & Lever<br>Type Dial Gauge by<br>Comparison Method  | 0 to 250 mm      | 3.4 µm                                 |
| 40                      | Taper Plug Gauge-<br>Taper Angle            | Using ULM, Sine Bar, Angle<br>Gauge & Slip Gauge by<br>Comparison Method   | Upto 60°         | 15 Sec                                 |
| 41                      | Taper Plug Gauge-<br>Dia                    | Using ULM, Electronic Probe<br>& Slip Gauge by Comparison<br>Method as per IS 3455:1971  | 100 mm to 250 mm | 3 µm                                   |
| 42                      | Taper Plug Gauge-<br>Dia                    | Using ULM, Electronic Probe<br>& Slip Gauge by Comparison<br>Method as per IS 3455:1971  | 1 mm to 100 mm   | 2.0 µm                                 |
| <b>Group: Acoustics</b> |   |  |                  |  |
| 01                      | Sound Level Meter                           | Using Sound Level Calibrator<br>as per IEC 61672-1:2013  | 94 dB @ 1 kHz    | 0.85 dB                                |
| 02                      | Sound Level Meter                           | Using Sound Level Calibrator<br>as per IEC 61672-1:2013  | 114 dB @ 1 kHz   | 0.85 dB                                |
| <b>Group: Volume</b>    |   |  |                  |  |
| 01                      | Glassware-<br>Volumetric Flask,<br>Cylinder | Using Digital Weighing<br>Balance (Readability:0.1 g)<br>with Distilled Water by<br>Gravimetric Method as per<br>ISO 8655-6:2022 | >1 L to 10 L     | 1.1 ml                                 |

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### Mechanical Calibration (Laboratory-Based)

| S. No.             | Parameter  | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard  | Range              | Uncertainty in<br>Measurement<br>(±) * |
|--------------------|--|--|--------------------|--|
| 02                 | Glassware-Pipette,<br>Burette, Volumetric<br>Flask, Cylinder | Using Digital Weighing<br>Balance (Readability:0.1 g)<br>with Distilled Water by<br>Gravimetric Method as per<br>ISO 8655-6:2022 | 1 ml to 10 ml      | 5.8 µl                                 |
| 03                 | Glassware-Pipette,<br>Burette, Volumetric<br>Flask, Cylinder | Using Digital Weighing<br>Balance (Readability:0.1 g)<br>with Distilled Water by<br>Gravimetric Method as per<br>ISO 8655-6:2022 | 10 ml to 100 ml    | 60 µl                                  |
| 04                 | Glassware-<br>Volumetric Flask,<br>Cylinder                  | Using Digital Weighing<br>Balance (Readability:0.1 g)<br>with Distilled Water by<br>Gravimetric Method as per<br>ISO 8655-6:2022 | >100 ml to 1000 ml | 0.3 ml                                 |
| <b>Group: Mass</b> |  |  |                    |  |
| 01                 | Weight M1 Class<br>and Coarser                               | Using Standard Weights<br>of F1 Class & Weighing<br>Balance(Readability:0.01 mg)<br>as per OIML R 111-1:2004                     | (1 g to 200 g)     | 0.13 mg                                |
| 02                 | Weight M1 Class<br>and Coarser                               | Using Standard Weights<br>of F1 Class & Weighing<br>Balance (Readability:0.1 g) as<br>per OIML R 111-1:2004                      | 1 Kg               | 0.11 g                                 |
| 03                 | Weight M1 Class<br>and Coarser                               | Using Standard Weights<br>of F1 Class & Weighing<br>Balance (Readability:0.1 g)<br>as per OIML R 111-1:2004                      | 10 Kg              | 0.12 g                                 |

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### Mechanical Calibration (Laboratory-Based)

| S. No. | Parameter | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard | Range | Uncertainty in<br>Measurement<br>( $\pm$ ) * |
|--------|-----------|---|-------|--|
|--------|-----------|---|-------|--|

|    |                                |   |       |        |
|----|--------------------------------|---|-------|--------|
| 04 | Weight M1 Class<br>and Coarser | Using Standard Weights<br>of F1 Class & Weighing<br>Balance (Readability:0.1g)<br>as per OIML R 111-1:2004    | 2 Kg  | 0.11 g |
| 05 | Weight M1 Class<br>and Coarser | Using Standard Weights<br>of F1 Class & Weighing<br>Balance (Readability:0.1 g)<br>as per OIML R 111-1:2004   | 20 Kg | 0.12 g |
| 06 | Weight M1 Class<br>and Coarser | Using Standard Weights<br>of F1 Class & Weighing<br>Balance (Readability:0.1 g)<br>as per OIML R 111-1:2004   | 5 Kg  | 0.08 g |
| 07 | Weight M1 Class<br>and Coarser | Using Standard Weights<br>of F1 Class & Weighing<br>Balance (Readability:0.01 mg)<br>as per OIML R 111-1:2004 | 500 g | 0.08 g |

### **Group: Acceleration and Speed**

|    |  |   |                        |                  |
|----|--|---|------------------------|------------------|
| 01 | RPM Meter,<br>Tachometer<br>(Contact Type) | Using Digital<br>Tachometer & RPM<br>Calibrator (Electric Motor<br>with Rotating Disc &<br>Reflecting Tape) by<br>comparison method as per<br>TR 45-02/2007 | 100 rpm to 4000<br>rpm | 1.76 % to 0.45 % |
|----|--|---|------------------------|------------------|

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**Amended on:** NA

### Mechanical Calibration (Laboratory-Based)

| S. No. | Parameter                                       | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard   | Range                   | Uncertainty in<br>Measurement<br>( $\pm$ ) * |
|--------|---|---|-------------------------|--|
| 02     | RPM Meter,<br>Tachometer (Non-<br>Contact Type) | Using Digital<br>Tachometer & RPM<br>Calibrator (Electric Motor<br>with Rotating Disc &<br>Reflecting Tape) by<br>comparison method as per<br>TR 45-02/2007 | 100 rpm to<br>40000 rpm | 1.76% to 0.10%                               |

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### Mechanical Calibration (At Site)

| S. No. | Parameter | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard | Range | Uncertainty in<br>Measurement<br>(±) * |
|--------|-----------|---|-------|--|
|--------|-----------|---|-------|--|

#### Group: Weighing Scale and Balance

|    |   |   |              |        |
|----|---|---|--------------|--------|
| 01 | Weighing<br>Balance Class I<br>(Readability:10 mg<br>& Coarser)         | Using Standard Weights<br>of F1 Class as per OIML R 76-<br>1:2006 by Comparison<br>Method   | Up to 200 g  | 6.2 mg |
| 02 | Weighing<br>Balance Class I<br>(Readability:10 mg<br>& Coarser)         | Using Standard Weights<br>of F1 Class as per OIML R 76-<br>1:2006 by Comparison<br>Method   | Up to 600 g  | 6.2 mg |
| 03 | Weighing<br>Balance Class II<br>(Readability:0.1 g &<br>Coarser)        | Using Standard Weights<br>of F1/F2 Class as per OIML R<br>76-1:2006 by Comparison<br>Method | Up to 10 kg  | 2.6 g  |
| 04 | Weighing<br>Balance Class II<br>(Readability: :1 g &<br>Coarser)        | Using Standard Weights<br>of F1/F2 Class as per OIML R<br>76-1:2006 by Comparison<br>Method | Up to 20 kg  | 2.6 g  |
| 05 | Weighing<br>Balance / Batching<br>Plant Class III<br>(Readability:50 g) | Using Standard Weights of<br>M1 Class as per OIML R 76-<br>1:2006 by Comparison<br>Method   | Up to 300 kg | 31 g   |

#### Group: Acceleration and Speed

|    |  |   |                         |                  |
|----|--|---|-------------------------|------------------|
| 01 | Rotary Shaker,<br>Sieve Shaker,<br>Centrifuge (Non-<br>Contact Type) | Using Digital Tachometer<br>Comparison Method as per<br>TR 45-02/2007 | 100 rpm to 40000<br>rpm | 1.76 % to 0.45 % |
|----|--|---|-------------------------|------------------|

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### Mechanical Calibration (At Site)

| S. No.  | Parameter  | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard   | Range                      | Uncertainty in<br>Measurement<br>(±) *         |
|---|--|---|----------------------------|--|
| 02  | RPM Meter,<br>Tachometer (Non-<br>Contact Type)  | Using Digital<br>Tachometer & RPM<br>Calibrator (Electric Motor<br>with Rotating Disc &<br>Reflecting Tape) by<br>comparison method as per<br>TR 45-02/2007 | 100 rpm to<br>40000 rpm    | 1.76% to 0.10%                                 |
| <b>Group: Dimension (Precision Instruments)</b> |  |   |                            |  |
| 01  | Profile Projector<br>Angular<br>(L.C.: 1 second) | Using Angle Gauges by<br>Comparison Method  | 0° to 360°                 | 17.3 second                                    |
| 02  | Profile Projector<br>- Linear<br>(L.C.:0.001 mm) | Using Glass Scale,<br>Digital Caliper & Slip Gauge<br>by Comparison Method  | 0to 200 mm                 | 2.7 µm   |
| 03  | Profile Projector<br>- Magnification)            | Using Glass Scale,<br>Digital Caliper & Slip Gauge<br>by Comparison Method  | 10 X to 100 X              | 1.80 %   |
| 04  | Surface Plate -<br>Flatness                      | Using Precision Level (L.C.:<br>10 µm/m) by Comparison<br>Method as per IS 7327:2003<br>& IS 2285:2003  | Up to 2500 mm x<br>1600 mm | 2<br>$\sqrt{\{(L+W)/150\}}$<br>µm, L & W in mm |
| 05  | Bench Center -<br>Coaxially,<br>Parallelism      | Using Level, Dial Gauge, Test<br>Mandrel (Cylindrical &<br>Taper) by Comparison<br>Method as per IS 5980:1978   | Up to 1000 mm              | 6.0 µm   |

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### Mechanical Calibration (At Site)

| S. No. | Parameter | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard | Range | Uncertainty in<br>Measurement<br>(±) * |
|--------|-----------|---|-------|--|
|--------|-----------|---|-------|--|

| Group: Pressure |  |   |                        |           |
|-----------------|--|---|------------------------|-----------|
| 01              | Pressure Gauge<br>(Digital / Analog),<br>Magnarelli<br>Transducer,<br>Transmitter with<br>Readout,<br>Manometer -<br>Pneumatic | Using Differential Pressure<br>Gauge with Screw Pump by<br>Comparison Method as per<br>DKD-R-6-1:2003               | 24 mbar to 196<br>mbar | 0.18 mbar |
| 182             | Pressure Gauge,<br>Pressure Indicator,<br>Pressure Switch,<br>Pressure<br>Transmitter  | Using Digital Pressure Gauge<br>with DMM & Pneumatic<br>Comparator by Comparison<br>Method as per<br>DKD-R-6-1:2003 | 1 bar to 40 bar        | 0.15 bar  |
| 183             | Pressure Gauge,<br>Pressure Indicator,<br>Pressure Switch,<br>Pressure<br>Transmitter  | Using Digital Pressure Gauge<br>with DMM & Hydraulic<br>Comparator by Comparison<br>Method as per<br>DKD-R-6-1:2003 | 40 bar to 700 bar      | 0.5 bar   |
| 184             | Vacuum Gauge,<br>Vacuum<br>Transducer,<br>Vacuum<br>Transmitter &<br>Vacuum Switches -<br>Negative Pressure                    | Using Digital Pressure Gauge<br>with Comparator by<br>Comparison Method as per<br>DKD-R-6-1:2003                    | (-) 0.9 bar to 0 bar   | 0.048 bar |

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### Thermal Calibration (Laboratory Based)

| S. No. | Parameter | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard | Range | Uncertainty in<br>Measurement<br>( $\pm$ ) * |
|--------|-----------|---|-------|--|
|--------|-----------|---|-------|--|

#### Group: Humidity

|    |   |  |                             |         |
|----|---|--|-----------------------------|---------|
| 01 | Temperature/Humidity Meter with Sensor, Thermo-Hygrometer, Humidity Data Logger | Using Temperature/Humidity Meter & Humidity Chamber by Comparison Method | 20 %RH to 95 % RH<br>@ 25°C | 2.1% RH |
| 02 | Temperature/Humidity Meter with Sensor, Thermo-Hygrometer, Humidity Data Logger | Using Temperature/Humidity Meter & Humidity Chamber by Comparison Method | 10 °C to 45 °C<br>@50%RH    | 0.88 °C |

#### Group: Temperature

|    |   |  |                  |         |
|----|---|--|------------------|---------|
| 01 | Liquid In Glass Thermometer   | Using RTD with Temperature Indicator & Oil Bath by Comparison Method as per IS 6274:2017   | 40 °C to 250 °C  | 0.66 °C |
| 02 | RTD, Temperature Gauge, Thermocouple with or without Indicator, Temperature Indicator/Data Logger with Sensor | Using a Digital Multimeter, RTD with Digital Temperature Indicator & Dry Block Calibrator by Comparison Method as per DKD R 5-1:2023 | -30 °C to 200 °C | 0.33 °C |

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### Thermal Calibration (Laboratory Based)

| S. No. | Parameter   | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard  | Range              | Uncertainty in<br>Measurement<br>(±) * |
|--------|---|--|--------------------|--|
| 03     | RTD, Temperature Gauge,<br>Thermocouple with or without Indicator,<br>Temperature Indicator/Data Logger with Sensor | Using Digital Mustimeter, RTD with Digital Temperature Indicator & Dry Block Calibrator by Comparison Method DKD R 5-1:2023  | 200 °C to 500 °C   | 0.48 °C                                |
| 04     | Thermocouple with or without Temperature Indicator,<br>Temperature Indicator/Data Logger with Sensor                | Using Digital Mustimeter, S-Type Thermocouple with Digital Temperature Indicator & Dry Block Calibrator by Comparison Method as per ASTM E220-13:2023,ITS-90 & Euramet cg-8:2020 | 500 °C to 1000 °C  | 2.27 °C                                |
| 05     | Thermocouple with or without Temperature Indicator,<br>Temperature Indicator/Data Logger with Sensor                | Using Digital Mustimeter, S-Type Thermocouple with Digital Temperature Indicator & Dry Block Calibrator by Comparison Method as per ASTM E220-13:2023,ITS-90 & Euramet cg-8:2020 | 1000 °C to 1200 °C | 3.13 °C                                |
| 06     | IR Thermometer  | Using Black Body Radiation Source, Reference Digital Pyrometer by Comparison Method  | 50 °C to 500 °C    | 4.05 °C                                |

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### Thermal Calibration (At Site)

| S. No. | Parameter | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard | Range | Uncertainty in<br>Measurement<br>(±) * |
|--------|-----------|---|-------|--|
|--------|-----------|---|-------|--|

#### Group: Humidity

|    |  |  |                              |          |
|----|--|--|------------------------------|----------|
| 01 | Indicator with<br>Sensor of Humidity<br>Chamber/<br>Environmental<br>Chamber                             | Using Digital RH Indicator<br>with Probe (Single Position)<br>by Comparison Method | 20 % RH to 95 % RH<br>@ 25°C | 2.8 % RH |
| 02 | RH/Temperature<br>Indicator with<br>Sensor of RH<br>Chamber/<br>Environmental<br>Chamber/RH<br>Generator | Using Digital RH Indicator<br>with Probe (Single Position)<br>by Comparison Method | 10 °C to 45 °C<br>@50%RH     | 0.9 °C   |

#### Group: Temperature

|    |   |  |                  |        |
|----|---|--|------------------|--------|
| 01 | RTD, Thermocouple<br>with or without<br>Indicator,<br>Temperature<br>Indicator/Data<br>Logger with Sensor | Using Digital Mustimeter,<br>RTD with Digital<br>Temperature Indicator & Dry<br>Block Calibrator by<br>Comparison Method as per<br>DKD R 5-1:2023  | -30 °C to 200 °C | 0.33°C |
| 02 | RTD, Thermocouple<br>with or without<br>Indicator,<br>Temperature<br>Indicator/Data<br>Logger with Sensor | Using Digital Mustimeter,<br>RTD with Digital<br>Temperature Indicator & Dry<br>Block Calibrator by<br>Comparison Method as per<br>DKD R 5-1 :2023 | 200 °C to 500 °C | 0.48°C |

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### Thermal Calibration (At Site)

| S. No. | Parameter   | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard   | Range              | Uncertainty in<br>Measurement<br>(±) * |
|--------|---|---|--------------------|--|
| 03     | Thermocouple with<br>or without<br>Temperature<br>Indicator,<br>Temperature<br>Indicator/Data<br>Logger with Sensor | Using Digital Multimeter,<br>S-Type Thermocouple with<br>Digital Temperature<br>Indicator & Dry Block<br>Calibrator by Comparison<br>Method as Per ASTM E220-<br>13:2023, ITS-90 & Euramet<br>cg-8:2020 | 500 °C to 1000 °C  | 2.27 °C                                |
| 04     | Thermocouple with<br>or without<br>Temperature<br>Indicator,<br>Temperature<br>Indicator/Data<br>Logger with Sensor | Using Digital Multimeter,<br>S-Type Thermocouple with<br>Digital Temperature<br>Indicator & Dry Block<br>Calibrator by Comparison<br>Method as per ASTM E220-<br>13:2023, ITS-90 & Euramet<br>cg-8:2020 | 1000 °C to 1200 °C | 3.13 °C                                |
| 05     | Freezer, Oven,<br>Incubator,<br>Environmental<br>Chamber (Multi-<br>position Calibrator)                            | Using Temperature Data<br>Logger with RTD Sensor<br>(Minimum Nine Sensor) by<br>Mult position Method as per<br>IS 6365 & DKD R 5-7  | -30 °C to 300 °C   | 3.2 °C                                 |
| 06     | Furance (Multi-<br>position Calibrator)   | Using Data Logger with N<br>Type Thermocouple<br>(Minimum Nine Sensor) by<br>Mult position Method   | 300 °C to 1000 °C  | 5 °C                                   |

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### Thermal Calibration (At Site)

| S. No. | Parameter   | Calibration Method/<br>Procedure & Equipment<br>used as Reference<br>Standard | Range             | Uncertainty in<br>Measurement<br>( $\pm$ ) * |
|--------|---|---|-------------------|--|
| 07     | Temperature Indicator with Sensor of Cold Chamber, Oven, Incubator, Furnace, Bath | Using RTD with Temperature Indicator by Comparison Method                     | -80 °C to 500 °C  | 0.92 °C                                      |
| 08     | Temperature Indicator with Sensor of Oven, Furnace, Bath                          | Using S-Type Thermocouple with a Temperature Indicator by Comparison Method   | 500 °C to 1200 °C | 2.7 °C                                       |

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

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