



### Scope of Accreditation for Calibration

As per ISO/IEC 17025:2017

**CAB Name:** Vashisth Calibration Pvt Ltd

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**Address:** Plot No 6&7, Rajeev Gandhi Complex, 21/3, Mathura Road,  
Ballabgarh, Faridabad, Haryana

**Certificate No.:** C-0012

**Issue date :** 25.07.2025

**Validity :** 24.07.2029

**Amendment date:** 08.08.2025

Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
Discipline – Mechanical, Group - Dimension					
1	Bevel Protector (L.C.: 5 minute of arc)	Up to 180°	Using Angle Gauge Set by Direct Method	3.0 minute of arc	Permanent
2	Bore Gauge - Transmission Error (L.C.: 1 µm)	Up to 1.5 mm	Using Dial Calibration Tester & Electronic Probe by Comparison Method	1.4µm	Permanent
3	Caliper - Dial / Digital / Vernier (L.C.: 0.01 mm)	0 to 300 mm	Using Slip Gauge Set & Caliper Checker by Comparison Method	8.0µm	Permanent
4	Caliper - Dial / Digital / Vernier (L.C.: 0.01 mm)	0 to 600 mm	Using Slip Gauge Set & Caliper Checker by Comparison Method	11µm	Permanent
5	Depth Gauge - Dial / Digital / Vernier (L.C.: 0.01 mm)	0 to 150 mm	Using Slip Gauge Set by Comparison Method	13µm	Permanent
6	Depth Micrometer - Analog / Digital (L.C.: 0.01 mm)	0 to 100 mm	Using Slip Gauge Set by Comparison Method	8.0µm	Permanent
7	Dial Indicator Lever Type (L.C.: 1 µm)	0 to 0.14 mm	Using Dial Calibration Tester by Comparison Method	2.2µm	Permanent
8	Dial Indicator Lever Type (L.C.: 10 µm)	0 to 0.8 mm	Using Dial Calibration Tester by Comparison Method	11µm	Permanent
9	Dial Indicator Plunger Type (L.C.: 10 µm)	0 to 25 mm	Using Dial Calibration Tester by Comparison Method	9.3µm	Permanent

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10	Dial Thickness Gauge (L.C.: 0.01 mm)	0 to 25 mm	Using Slip Gauge Set by Comparison Method	7.3µm	Permanent
11	External Micrometer - Analog / Digital (L.C.: 0.001 mm & Coarser)	0 to 100 mm	Using Slip Gauge Set by Comparison Method	2.5 µm	Permanent
12	Feeler Gauge	0.5 mm to 3 mm	Using Electronic Probe with Indicator by Comparison Method	3.4µm	Permanent
13	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm & Coarser)	0 to 600 mm	Using Slip Gauge Set & Caliper Checker by Comparison Method	12µm	Permanent
14	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm & Coarser)	0 to 300 mm	Using Slip Gauge Set & Caliper Checker by Comparison Method	12µm	Permanent
15	Inside Dial Caliper (L.C.: 0.01 mm)	4 mm to 100 mm	Using Slip Gauge Block & Slip Gauge Accessories Set by Comparison Method	9.2µm	Permanent
16	Measuring Pin	0.5 mm to 20 mm	Using Slip Gauge Set & Electronic Probe by Comparison Method	2.7µm	Permanent
17	Micrometer Head (L.C.: 0.001 mm)	0 to 25 mm	Using Surface Plate & Electronic Probe with Indicator by Comparison Method	1.5µm	Permanent

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18	Plain Plug Gauge	3 mm to 200 mm	Using Slip Gauge Set & Electronic Probe with Indicator by Comparison Method	5.2µm	Permanent
19	Radius Gauge / Radius Template	1 mm to 100 mm	Using Profile Projector by Comparison Method	4.8µm	Permanent
20	Setting Rod	25 mm to 100 mm	Using Surface Plate, Slip Gauge Block & Electronic Probe with Indicator by Comparison Method	4.9µm	Permanent
21	Snap Gauge	1 mm to 250 mm	Using Slip Gauge Set & Slip Gauge Accessories Set by Comparison Method	4.9µm	Permanent
22	Test Sieves	0.1 mm to 25 mm	Using Profile Projector by Comparison Method	14µm	Permanent
23	Ultra Sonic Thickness Gauge L.C.: 0.01 mm	0 to 100 mm	Using Slip Gauge Block by Comparison Method	5.9µm	Permanent
24	Dial Calibration Tester (L.C.: 0.001 mm)	0 to 25 mm	Using Slip Gauge Block & Electronic Probe with Indicator by Comparison Method	1.8µm	Permanent
25	Electronic Probe (L.C.: 0.1 µm)	0 to 25 mm	Using Slip Gauge Block by Comparison Method	0.90µm	Permanent

Discipline: Mechanical, Group: Pressure & Vacuum



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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
26	Hydraulic Pressure - Dial / Digital Pressure Gauge, Pressure Transmitter Pressure Safety Valve, Pressure Switch	70 to 700 bar	Using Digital Pressure Calibrator and Digital Multimeter by Comparison Method as per DKD-R 6-1	0.40 bar	Permanent/Site
27	Hydraulic Pressure - Dial / Digital Pressure Gauge, Pressure Transmitter Pressure Safety Valve, Pressure Switch	15 to 70 bar	Using Digital Pressure Calibrator and Digital Multimeter by Comparison Method as per DKD-R 6-1	0.12 bar	Permanent/Site
28	Pneumatic Pressure - Dial / Digital Pressure Gauge, Pressure Transmitter Pressure Safety Valve, Pressure Switch	0 to 15 bar	Using Digital Compound Pressure Calibrator and Digital Multimeter by Comparison Method as per DKD-R 6-1	0.040 bar	Permanent/Site
29	Pneumatic Pressure - Dial / Digital Pressure Gauge, Pressure Transmitter with Indicator, Pressure Switch, Manometer, Magnehelic Gauge	0 to 98 mbar	Using Digital Compound Pressure Gauge and Digital Multimeter by Comparison Method as per DKD-R 6-1	0.41 mbr	Permanent/Site
30	Pneumatic Vacuum - Dial / Digital Vacuum Gauge, Vacuum Transmitter with Indicator, Vacuum Switch	(-) 0.9 bar to 0	Using Digital Compound Calibrator and Digital Multimeter by Comparison Method as per DKD-R 6-1	0.0090 bar	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
Discipline : Thermal Group : Specific Heat & Humidity					
31	Hygrometer – Digital / Analog, RH Sensor with Indicator Logger / Controller @ 25°C	20 %RH to 95 %RH	Using Digital Temperature & Humidity Indicator with Sensor and Temperature & Humidity Chamber by Comparison Method	2.1%RH	Permanent
Discipline : Thermal Group : Temperature					
32	IR Thermometer, Non Contact Thermometer, Radiation Thermometer, Thermal Imager (only Temperature) (Emissivity 0.95)	50 °C to 500 °C	Using Pyrometer with Black Body Source by Comparison Method	2.7°C	Permanent
33	Liquid in Glass Thermometer	(-) 40 °C to 45 °C	Using PRT with Temperature Indicator & Oil Bath by Comparison Method	0.71°C	Permanent
34	Liquid in Glass Thermometer	> 45 °C to 250 °C	Using PRT with Temperature Indicator & Oil Bath by Comparison Method	1.2°C	Permanent
35	RTD / Thermocouple with or without Temperature Indicator / Data Logger /	(-) 40 °C to 45 °C	Using PRT with Temperature Indicator, 6½ Digit Multimeter & Oil	0.51°C	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
	Temperature Transmitter		Bath by Comparison Method		
36	RTD / Thermocouple with or without Temperature Indicator / Data Logger / Temperature Transmitter	> 45 °C to 250 °C	Using PRT with Temperature Indicator, 6½ Digit Multimeter & Oil Bath by Comparison Method	0.70°C	Permanent/Site
37	Temperature Indicator with Sensor of Oven / Incubator / Bath - Multi Position (For Non Medical Purpose Only)	0 °C to 250 °C	Using PRT with Data logger by Comparison Method	0.60°C	Permanent/Site
38	Thermocouple with or without Indicator / Data Logger, Temperature Transmitter / Digital Thermometer	250 °C to 1200 °C	Using S Type Thermocouple with Indicator, 6½ Digit Multimeter & Dry Block Bath by Comparison Method	2.5°C	Permanent/Site
39	Temperature Indicator with Sensor of Oven /Furnace - Nine Position (For Non-Medical Purpose Only)	250 °C to 1200 °C	Using K Type sensor with Data logger by Comparison Method	5.9°C	Permanent/Site
40	Incubator/ Bath - Nine Position (For Non Medical Purpose Only)	Up to to 250 °C	Using RTD sensor with Data logger by Comparison Method	1.7°C	Permanent/Site
Discipline: Electro-technical, Group: Alternating Current (< 1 GHz)					



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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
41	AC Current @ 50 Hz (Measure)	100 mA to 3 A	Using 6½ Digit Multimeter by Direct Method	0.51% to 0.79%	Permanent/Site
42	DC Current (Measure)	1 mA to 100 mA	Using 6½ Digit Multimeter by Direct Method	0.91% to 0.74%	Permanent/Site
43	DC Current (Measure)	100 mA to 3 A	Using 6½ Digit Multimeter by Direct Method	0.087% to 0.17%	Permanent/Site
44	AC Voltage @ 50 Hz (Measure)	10 mV to 1 V	Using 6½ Digit Multimeter by Direct Method	0.28 % to 1.3%	Permanent/Site
45	DC Voltage (Measure)	1 mV to 1 V	Using 6½ Digit Multimeter by Direct Method	0.64 % to 0.10%	Permanent/Site
46	DC Voltage (Measure)	1 V to 1000 V	Using 6½ Digit Multimeter by Direct Method	0.10% to 0.050%	Permanent/Site
47	AC Power @ 50 Hz, 3Ø (110 V to 440 V, 1 A to 5 A @ UPF) (Measure)	100 W to 900 W	Using Digital Power Analyzer by Direct Method	1.3 %	Permanent/Site
48	Capacitance @ 1 kHz (Measure)	100 pF to 100 nF	Using LCR Meter by Direct Method	0.68% to 0.31%	Permanent/Site
49	Capacitance @ 1kHz (Measure)	100 nF to 1 µF	Using LCR Meter by Direct Method	0.31% to 0.44%	Permanent/Site
50	Inductance @ 1 kHz (Measure)	100 µH to 100 mH	Using LCR Meter by Direct Method	0.51 % to 0.58%	Permanent/Site
51	Inductance @ 1 kHz (Measure)	100 mH to 10 H	Using LCR Meter by Direct Method	0.58% to 0.73%	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
52	AC Current @ 50 Hz to 400 Hz (Source)	100 $\mu$ A to 0.1 A	Using Universal Calibrator by Direct Method	0.24% to 0.13%	Permanent/Site
53	AC Current @ 50 Hz to 400 Hz (Source)	0.1 A to 1 A	Using Universal Calibrator by Direct Method	0.34% to 0.38%	Permanent/Site
54	AC Current @ 50 Hz to 400 Hz (Source)	1 A to 20 A	Using Universal Calibrator by Direct Method	2.1% to 0.24%	Permanent/Site
55	AC Voltage @ 50 Hz to 400 Hz Source)	10 mV to 1 V	Using Universal Calibrator by Direct Method	0.61% to 0.52%	Permanent/Site
56	AC Voltage @ 50 Hz to 400 Hz (Source)	1 V to 1000 V	Using Universal Calibrator by Direct Method	1.0% to 0.61%	Permanent/Site
Discipline: Electro-technical Group: Direct Current (< 1 GHz)					
57	DC Voltage (Source)	1 mV to 1 V	Using Universal Calibrator by Direct Method	4.9% to 0.080%	Permanent/Site
58	DC Voltage (Source)	1 V to 1000 V	Using Universal Calibrator by Direct Method	0.080% to 0.070%	Permanent/Site
59	DC Current (Source)	10 $\mu$ A to 100 mA	Using Universal Calibrator by Direct Method	0.64% to 0.36%	Permanent/Site
60	DC Current (Source)	100 mA to 1 A	Using Universal Calibrator by Direct Method	0.64 % to 0.14%	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
61	DC Current (Source)	1A to 20 A	Using Universal Calibrator by Direct Method	0.14% to 0.64%	Permanent/Site
62	DC Current (Source)	20 A to 1000 A	Using Universal Calibrator & Current Coil by Direct Method	0.36%	Permanent/Site
63	Capacitance @ 1kHz (Source)	1 $\mu$ F to 10 $\mu$ F	Using Capacitance Box by Direct Method	2.3%	Permanent/Site
64	Inductance @ 1 kHz (Source)	100 $\mu$ H to 100 Mh	Using Inductance Box by Direct Method	2.5%	Permanent/Site
65	Inductance @ 1 kHz (Source)	100 mH to 10 H	Using Inductance Box by Direct Method	2.5%	Permanent/Site
66	AC Energy @ 50 Hz , 3 $\emptyset$ (110 V to 440 V , 1 A to 5 A @ UPF) (Measure)	100 Wh to 900 Wh	Using Digital Power Analyzer by Direct Method	1.3%	Permanent/Site
67	DC Resistance – 2 Wire (Measure)	0.001 Ohm to 1 Ohm	Using Low Resistance Meter by Direct Method	2.4% to 0.48%	Permanent/Site
68	DC Resistance – 2 Wire (Measure)	1 Ohm to 10 kOhm	Using 6½ Digit Multimeter by Direct Method	0.48% to 1.5%	Permanent/Site
69	DC Resistance – 2 Wire (Measure)	10 kOhm to 100 MOhm	Using 6½ Digit Multimeter by Direct Method	1.5 %	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
70	DC Resistance – 2 Wire (Source)	0.1 Ohm	Using Low Resistance Box by Direct Method	2.4%	Permanent/Site
71	DC Resistance – 2 Wire (Source)	1 mOhm	Using Low Resistance Box by Direct Method	2.7%	Permanent/Site
72	DC Resistance – 2 Wire (Source)	1 Ohm	Using Low Resistance Box by Direct Method	0.25%	Permanent/Site
73	DC Resistance – 2 Wire (Source)	10 Ohm to 24 kOhm	Using Low Resistance Box, High Resistance Box by Direct Method	1.3% to 0.26%	Permanent/Site
74	DC Resistance – 2 Wire (Source)	24 kOhm to 24 MOhm	Using High Resistance Box by Direct Method	0.52%	Permanent/Site
Discipline: Electro-technical Group : Temperature Simulation					
75	RTD (Measure)	(-) 200 °C to 700 °C	Using Digital Process Indicator by Direct Method	0.98 °C	Permanent/Site
76	RTD (Source)	(-) 200 °C to 800 °C	Using Temperature Calibrator by Direct Method	0.50 °C	Permanent/Site
77	Thermocouple J Type (Source)	(-) 100 °C to 800 °C	Using Temperature Calibrator by Direct Method	0.71 °C	Permanent/Site
78	Thermocouple K Type (Source)	(-) 100 °C to 1300 °C	Using Temperature Calibrator by Direct Method	0.96 °C	Permanent/Site

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79	Thermocouple R Type (Source)	200 °C to 1600 °C	Using Temperature Calibrator by Direct Method	1.4 °C	Permanent/Site
80	Thermocouple T Type (Source)	(-) 100 °C to 400 °C	Using Temperature Calibrator by Direct Method	1.0 °C	Permanent/Site
Discipline: Electro-technical, Group: Frequency & Time					
81	Frequency (Measure)	1 Hz to 1 MHz	Using 6½ Digit Multimeter & High Frequency Counter by Comparison Method	0.31% to 0.94%	Permanent/Site
82	Time (Measure)	1s to 86400 s	Using Timer Calibrator by Comparison Method	0.20s to 26s	Permanent/Site
83	Frequency (Source)	10 Hz to 1 MHz	Using Function Generator by Direct Method	0.26 % to 1.2%	Permanent/Site

Note: CMC in (±) at 95% confidence level