Scope of Accreditation for Calibration

As per ISO/IEC 17025:2017

CAB Name: Balaji Control

Address: Near Gounchi Subzi Mandi, Sanjay Colony, 33 ft. Road, Sector-23, Faridabad-121005, Haryana

Certificate No.: C-0015

Issue date : 11.11.2025
Validity : 10.11.2029
Amendment date: N/A

Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
Discipline - Mechanical-, Group - Dimension (Basic Measuring Instrument)					
1	Air Gauge Unit (L.C.: 0.001 mm)	(-)40 µm to 40 µm	Using Setting Ring / Air Plug Gauge Set by Comparison Method	3.9 µm	Site
2	Angle Plate / Box Angle Plate (Flatness)	50 mm to 300 mm	Using Lever Dial, Surface Plate by Direct Method	8.2 µm	Permanent
3	Angle Plate / Box Angle Plate – Parallelism	Upto 300 mm	Using Lever Dial, Surface Plate by Direct Method	8.4 µm	Permanent
4	Angle Plate / Box Angle Plate – Squareness	Upto 300 mm	Using Surface Plate, Master Cylinder & Steel Gauge Block by Direct Method	9.8 µm at 180 mm Length	Permanent
5	Bench Center (Co-Axility)	0 mm to 500 mm	Test Mandrel & Dial Indicator (Plunger Type) by Direct Method	11 µm at 500 mm length	Permanent /Site
6	Bench Center (Parallesium of Centers w.r.t base	0 mm to 500 mm	Taper Mandrel & Dial Indicator (Plunger Type) by Direct Method	8.9 µm	Permanent /Site
7	Bevel Protector (L.C.: 0.1°)	0°-90°-0°	Using Angle Gauge Set by Direct Method	8.0 minute of Arc	Permanent
8	Bore Gauge - Transmission Only (L.C.: 0.001 mm)	0 to 2 mm	Using Universal Length Measuring Machine & Dial Indicator (Plunger Type) by Comparison Method	1.5 µm	Permanent
9	Coating Thickness Gauge (L.C.: 0.1 µm)	10 µm to 100 µm	Using Std. Foils by Direct Method	2.2 µm	Permanent
10	Coating Thickness Gauge (L.C.: 1 µm)	100 µm to 1000 µm	Using Std. Foils by Direct Method	7.4 µm	Permanent
11	Combination Set (L.C.: 5 minute)	up to 90°	Using Angle Gauge Set by Direct Method	42 minute of Arc	Permanent
12	Comparator Stand - Flatness of surface	300 x 300 mm	Using Dial Indicator (Lever Type), Surface Plate by Direct Method	9.1 µm	Permanent /Site
13	Core Cutter / Soil Core Cutter Apparatus (Height)	up to 300 mm	Using Digital Vernier Caliper by Direct Method	21 µm	Permanent

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14	CRB Mould / Marshal Mould / Proctor Mould – Length	0 to 300 mm	Using Digital Vernier caliper by Direct Method	25 µm	Permanent
15	Cube Mould – Length	50x50x50mm to 300x300x300 mm	Using Digital Vernier Caliper by Direct Method	42 µm	Permanent /Site
16	Cylindrical Setting Standard (Diameter)	5 mm to 300 mm	Using Universal Length Measuring Machine by Direct Method	2.4 µm	Permanent
17	Cylindrical Standard (Runout)	5 mm to 300 mm	Using Bench Center & Dial Indicator (Plunger Type) by Direct Method	12 µm	Permanent
18	Degree protector (L.C.: 1°)	Up to 90°	Using Angle Gauge Set by Direct Method	42 minute of Arc	Permanent
19	Depth Gauge / Vernier Depth Gauge (L.C.: 0.01 mm)	0 to 300 mm	Using Steel Gauge Block, Caliper Checker and Surface Plate by Direct Method	14µm	Permanent
20	Depth Micrometer (L.C.: 0.01 mm)	0 to 300 mm	Using Steel Gauge Block and Surface Plate by Direct Method	12 µm	Permanent
21	Dial Gauge (Lever Type) (L.C.: 0.001 mm)	0 to 0.14 mm	Using Universal Length Measuring Machine by Direct Method	2.0 µm	Permanent
22	Dial Gauge (Lever Type) (L.C.: 0.01 mm)	0 to 0.8 mm	Using Universal Length Measuring Machine by Direct Method	6.1 µm	Permanent
23	Dial Gauge (Plunger Type) (L.C.: 0.001 mm)	0 to 25 mm	Using Universal Length Measuring Machine by Direct Method	2.0 µm	Permanent
24	Dial Gauge (Plunger Type) (L.C.: 0.01 mm)	0 to 100 mm	Universal Length Measuring Machine by Direct Method	6.2 µm	Permanent
25	Dial Gauge (Plunger Type) L/c 0.0001 mm	0 to 25 mm	Universal Length Measuring Machine by Direct Method	1.5 µm	Permanent
26	Dial Thickness gauge (L.C.: 0.001 mm)	0 to 1 mm	Using Steel Gauge Block by Direct Method	1.4 µm	Permanent

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27	Dial Thickness gauge (L.C.: 0.01 mm)	0 to 25 mm	Using Steel Gauge Block by Direct Method	12 µm	Permanent
28	Elongation Gauge – Length	0 to 100 mm	Using Digital Vernier Caliper by Direct Method	23 µm	Permanent/Site
29	External Micrometer (Digital / Manual) (L.C.: 0.001 mm)	>75 to 100 mm	Using Steel Gauge Block by Direct Method	1.5µm	Permanent
30	External Micrometer (Digital / Manual) (L.C.: 0.001 mm)	0 to 25 mm	Using Steel Gauge Block by Direct Method	0.70 µm	Permanent
31	External Micrometer (Digital / Manual) (L.C.: 0.001 mm)	>25 to 50 mm	Using Steel Gauge Block by Direct Method	0.90 µm	Permanent
32	External Micrometer (Digital / Manual) L/c 0.001 mm	>50 to 75 mm	Using Steel Gauge Block by Direct Method	1.5 µm	Permanent
33	External Micrometer (L.C.: 0.01 mm)	0 to 300 mm	Using Steel Gauge Block by Direct Method	8.4 µm	Permanent
34	External Micrometer (L.C.: 0.01 mm)	0 to 600 mm	Using Steel Gauge Block & Long Gauge Block by Direct Method	9.5 µm	Permanent
35	Feeler Gauge	0.01 mm to 1 mm	Using Universal Length Measuring Machine By Direct Method	2.0 µm	Permanent
36	Flakiness Gauge – Length	0 to 100 mm	Using Digital Vernier Caliper by Direct Method	26 µm	Permanent&Site
37	GSM Cutter	up to 200 mm	Using Digital Vernier Caliper by Direct Method	21 µm	Permanent
38	Height Gauge / Electronic Height gauge (L.C.: 0.001 mm)	0 to 600 mm	Using Caliper Checker & Surface Plate by Direct Method	12 µm	Permanent
39	Height Gauge.(L.C.: 0.02 mm)	0 to 1000 mm	Using Long slip gauges, Caliper Checker & Surface Plate by Direct Method	17 µm	Permanent/Site
40	Inclinometer (L.C.: 0.1°)	Up to 60°	Using Angle Gauge Set by Direct Method	42 minute of Arc	Permanent
41	Inside Caliper (Dial / Digital) (L.C.: 0.01 mm)	5 mm to 100 mm	Using Steel Gauge Block & Gauge Block Accessories by Direct Method	13 µm	Permanent

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
42	Inside Micrometer / Internal Micrometer / (Jaw and Stick Type) (L.C.: 0.001 mm)	5 mm to 300 mm	Using Steel Gauge Block / Gauge Block Accessories by Direct Method	11 µm	Permanent
43	Measuring Pin	0.17 mm to 20 mm	Using Universal Length Measuring Machine by Direct Method	1.7 µm	Permanent
44	Measuring Tape / Steel Tape (L.C.: 1 mm & coarser)	0 to 50 m	Using Tape & Scale Measuring Machine by Direct Method	0.38 mm	Permanent
45	Micrometer Setting Rod	100 mm to 300 mm	Using Universal Length Measuring Machine and Long Gauge Block by Direct Method	4.7 µm	Permanent
46	Micrometer Setting Rod	25 mm to 100 mm	Using Universal Length Measuring Machine by Direct Method	1.8 µm	Permanent
47	Micrometer Setting Rod	300 mm to 575 mm	Using Slip gauges, Long Gauge Block and lever gauge with height gauge by Direct Method	8.0 µm	Permanent
48	Pie Tape (L.C.: 0.1 mm & coarser)	0 to 5 m	Using Tape & Scale Measuring Machine by Direct Method	0.13 √L mm Where L is in meter	Permanent
49	Pistol Caliper (L.C.: 0.01 mm)	0 to 1 mm	Using Steel Gauge Block by Direct Method	6.0 µm	Permanent
50	Pistol Caliper (L/c 0.01 mm)	0 to 25 mm	Using Steel Gauge Block by Direct Method	6.0 µm	Permanent
51	Plain Plug Gauge / Air Plug Gauge/ Master Plug Gauge	100 mm to 200 mm	Using Universal Length Measuring Machine by Direct Method	5.3µm	Permanent
52	Plain Plug Gauge / Air Plug Gauge/ Master Plug Gauge	3 mm to 100 mm	Using Universal Length Measuring Machine by Direct Method	2.7 µm	Permanent
53	Plain Ring Gauge / Air Ring Gauge / Master Ring Gauge	3 mm to 100 mm	Using Universal Length Measuring Machine by Direct Method	2.1 µm	Permanent

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
54	Portable Surface Roughness Tester - Roughness Measurement Ra	0.4 µm to 3.2 µm	Using Roughness Specimen Set 3 Nos by Direct Method	9.2 %	Permanent/Site
55	Roughness Specimen	0.4 µm to 3.2 µm	Using Roughness Tester by Direct Method	10.00%	Permanent/Site
56	Radius Gauge	1 mm to 100 mm	Using Profile Projector by Direct Method	50 µm	Permanent
57	Slump Cone (Height / Inner Diameter)	100 mm to 300 mm	Using Vernier Caliper, Height Gauge with Dial Gauge (Lever Type) & Surface Plate by Direct Method as per IS No 7320	0.22 mm (Dia) 0.22 mm (Height)	Permanent/Site
58	Snap Gauge	100 mm to 200 mm	Using Steel Gauge Block by Direct Method	5.7 µm	Permanent
59	Snap Gauge / Dial Snap Gauge (Only Parallelism)	5 mm to 100 mm	Using Steel Gauge Block by Direct Method	4.6 µm	Permanent
60	Straight Edge	50 mm to 1000 mm	Using Steel Gauge Block & Dial Gauge (Lever Type) by Direct Method	12 µm	Permanent/Site
61	Std. Foils	10 µm to 1200 µm	Using Universal Length Measuring Machine by Direct Method	1.5 µm	Permanent
62	Steel Scale / Scale (L.C.: 0.5 & coarser)	0 to 150 mm	Using Tape & Scale Measuring Machine by Direct Method	0.12 mm	Permanent
63	Steel Scale / Scale (L.C.: 1 mm & coarser)	>150 mm to 2000 mm	Using Tape & Scale Measuring Machine by Direct Method	0.12 √L mmm Where L is in meter	Permanent
64	Straight Mandrel (Run Out)	50 mm to 500 mm	Using Bench Center & Dial Indicator (Plunger Type) by Direct Method	8.0 µm	Permanent
65	Straight Mandrel (Size Variation)	50 mm to 300 mm	Using Universal Length Measuring Machine by Direct Method	6.1 µm	Permanent
66	Straight Mandrel (Straightness)	50 mm to 500 mm	Using Surface Plate & Dial Indicator (Plunger Type) by Direct Method	6.1 µm	Permanent

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
67	Surface Plate	2000 mm X 2000 mm	Using Electronic Level by Direct Method:	10 µm/m	Permanent/Site
68	Tape (Woven Metallic & Glass Fiber) (L.C: 1 mm & coarser)	0 to 5 m	Using Tape & Scale Measuring Machine by Direct Method	0.13 mm	Permanent
69	Taper Scale (L.C.: 0.1 mm)	0 to 15 mm	Using Profile Projector by Direct Method	13 µm	Permanent
70	Test Sieve	0.032 mm to 10 mm	Using Profile Projector by Direct Method	11 µm	Permanent
71	Test Sieve	10 mm to 100 mm	Using Digital Vernier Caliper by Direct Method	26 µm	Permanent/Site
72	Thread Pitch Gauge (Angle)	60°	Using Profile Projector by Direct Method	6.5 minute of Arc	Permanent
73	Thread Pitch Gauge (Pitch)	0.2 mm to 7 mm	Using Profile Projector by Direct Method	44 µm	Permanent
74	Thread Plug Gauge / Wear Check Plug (Pitch Dia Only)	4 mm to 100 mm	Using Universal Length Measuring Machine & Three Wire Unit Set by Direct Method	2.2 µm	Permanent
75	Thread Ring Gauge / Wear Check Ring (Pitch Dia Only)	4 mm to 100 mm	Using Universal Length Measuring Machine by Direct Method	2.0 µm	Permanent
76	Try Square / Right Angle – Parallelism	Upto 300 mm	Using Lever Dial, Surface Plate Direct Method	8.5 µm	Permanent
77	Try Square / Right Angle – Squareness	Upto 300 mm	Using Surface Plate, Master Cylinder & Steel Gauge Block by Direct Method	8.5 µm	Permanent
78	Try Square / Right Angle – Straightness	50 mm to 300 mm	Using Surface Plate, Slip Gauge Set and Lever dial Gauge by Direct Method	8.7 µm	Permanent
79	Ultrasonic Thickness Gauge (L.C.: 0.01 mm)	0 to 100 mm	Using Gauge Block Set by Direct Method	71 µm	Permanent
80	V Block (Flatness)	Upto (200x150x125) Mm	Using Surface Plate, Lever Dial, Slip Gauge by Direct Method	8.1 µm	Permanent

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
81	V Block (Parallelism of V Axis)	Upto (200x150x125) Mm	Using Test Mandrel, Surface Plate, Lever Dial by Direct Method	11 µm	Permanent
82	V Block (Squareness)	Upto (200x150x125) Mm	Using Surface Plate, Master Cylinder by Direct Method	9.9 µm	Permanent
83	V Block (Symmetry)	Upto (200x150x125) Mm	Using Test Mandrel, Lever Dial & Master Cylinder by Direct Method	11 µm	Permanent
84	Vernier Caliper (Plain / Digital / Dial) L/c 0.01 mm	0 to 600 mm	Using Caliper Checker / Steel Gauge Block by Direct Method	11 µm	Permanent
85	Vernier Caliper (Plain/Dial/Digital) (L.C.: 0.01 mm)	0 to 1000 mm	Using Long Gauge Block by Direct Method	15 µm	Permanent/Site
86	Vernier Caliper (Plain/Dial/Digital) (L.C.: 0.01 mm)	0 to 150 mm	Using Caliper Checker & Steel Gauge Block by Direct Method	9.6 µm	Permanent
87	Vernier Caliper (Plain/Dial/Digital) (L.C.: 0.01 mm)	0 to 300 mm	Using Caliper Checker & Steel Gauge Block by Direct Method	11 µm	Permanent
88	Vernier Caliper (Plain/Dial/Digital) (L.C.: 0.02 mm)	0 to 1000 mm	Using Long Gauge Block by Direct Method	15 µm	Permanent/Site
89	Vicat Apparataus (Scale Length)	0 to 40 mm	Using Tape & Scale Measuring Machine by Direct Method as per IS 5513	0.12 mm	Permanent
90	Vicat Apparatus (Cup Dia)	50 mm to 80 mm	Using Digital Vernier Caliper by Direct Method as per IS 5513	60 µm	Permanent
91	Weld Gauge / Fillet Gauge (Angle)	0° to 90°	Using Profile Projector by Direct Method	9.0 minute of Arc	Permanent
92	Weld Gauge / Fillet Gauge (Radius)	0 to 100 mm	Using Profile Projector by Direct Method	50 µm	Permanent
93	Weld Gauge / Fillet Gauge Linearity)	0.19 mm to 50 mm	Using Profile Projector by Direct Method	8.0 µm	Permanent

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
94	Eye Piece - L/c 0.01 mm	0 mm to 20 mm	Using Profile Projector by Direct Method	14 µm	Permanent
95	Wire Gauge	0.19 mm to 7.82 mm	Using Profile Projector by Direct Method	8.0 µm	Permanent
Discipline – Mechanical, Group - Dimension (Precision Instruments)					
96	Caliper Checker	0 to 600 mm	Using Gauge Block Set, Long Gauge Block, Surface Plate & Lever Dial Gauge by comparison method	9.6 µm	Permanent
97	Dial Calibration Tester (L.C.: 1 µm)	0 to 25 mm	Using Electronic Probe by Direct method	2.0 µm	Permanent
98	Electronic Probe (L.C.: 0.1 µm)	0 to 10 mm	Using Gauge Block Set with Comparator Stand by Direct method	1.2 µm	Permanent
99	Gauge Block Accessories (Flatness)	up to 300 mm	Using Surface Plate, Dial Indicator (Plunger Type) & Optical Flat by Direct Method	6.0 µm	Permanent
100	Gauge Block Accessories (Parallelism)	0 to 300 mm	Using Surface Plate, Dial Indicator (Plunger Type) by Direct Method	6.3 µm	Permanent
101	Long Gauge Block	upto 300 mm	Using ULM by Direct Method	5.7 µm	Permanent
102	Height Gauge (L.C.: 0.01 mm)	0 to 600 mm	Using Caliper Checker & Surface Plate by Direct Method	13 µm	Permanent
103	Height Gauge (L.C.: 0.01 mm)	0 to 1000 mm	Using long slip gauge, Caliper Checker & Surface Plate by Direct Method	17 µm	Permanent/Site
104	Height Gauge (L.C.:0.01 mm)	0 to 300 mm	Using Caliper Checker & Surface Plate by Direct Method	12 µm	Permanent
105	Microscope (Magnification)	10 X to 600 X	Using Glass Scale By Direct Method	5.5 %	Permanent/Site
106	Microscope / Travelling Microscope (linear Scale)	0 to 180 mm	Using Glass Scale by Direct Method	8.0 µm	Permanent/Site

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107	Microscope / Travelling Microscope (Magnification)	(10, 50, 100) X	Using Glass Scale by Direct Method	5.5 %	Permanent/Site
108	Profile Projector (Magnification)	10 X to 100 X	Using Steel Gauge Block & Glass Scale & Digital Vernier Caliper by Direct Method	0.70%	Permanent/Site
109	Profile Projector / VMM (Angle) (L.C.: 1')	Upto 180°	Using Angle Gauge by Direct Method	2.3 minute of arc	Permanent/Site
110	Profile Projector / VMM (Linear Scale) - (L.C.: 0.001 mm)	Up to 200 mm	Using Glass Scale by Direct Method	4.9 µm	Permanent/Site
111	Tape & Scale Measuring Machine (L.C.: 0.001 mm)	0 to 1000 mm	Using Steel Gauge Block & Long Gauge Block by Direct Method	19 µm	Permanent/Site
112	Three Wire Unit Set	0.17 to 6.3 mm	Using Universal Length Measuring Machine by Direct Method	1.4 µm	Permanent
113	Universal Length Measuring Machine (ULM) (L.C.: 0.0001 mm)	0 to 100 mm	Using Steel Gauge Block by Direct Method	1.5 µm	Permanent/Site
Discipline- Mechanical, Group - Acceleration and Speed					
114	Centrifuge/RPM Meter	20 rpm to 400 rpm	Using Tachometer by Direct Method	1.5 rpm	Permanent/Site
115	Storboscobe/Centrifuge / RPM Meter	1000 rpm to 6000 rpm	Using Tachometer by Direct Method	21 rpm	Permanent/Site
116	Storboscobe/Centrifuge / RPM Meter	400 rpm to 1000 rpm	Using Tachometer by Direct Method	5.0 rpm	Permanent/Site
117	Tachometer Contact Type	10 rpm to 100 rpm	Using Tachometer & RPM Source Disc Type Comparison Method	1.5 rpm	Permanent/Site
118	Tachometer Contact Type	100 rpm to 7500 rpm	Using Tachometer & RPM Source Disc Type Comparison Method	23 rpm	Permanent/Site
119	Tachometer-Non-Contact Type	10 rpm to 100 rpm	Using Tachometer & RPM Source Disc Type by Comparison Method	1.5 rpm	Permanent/Site

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120	Tachometer-Non-Contact Type	100 rpm to 1000 rpm	Using Tachometer & RPM Source Disc Type by Comparison Method	5.0 rpm	Permanent/Site
121	Tachometer-Non Contact Type	1000 rpm to 5000 rpm	Using Tachometer & RPM Source Disc Type by Comparison Method	17 rpm	Permanent/Site
122	Tachometer-Non Contact Type	5000 rpm to 30000 rpm	Using Tachometer & RPM Source Disc Type by Comparison Method	22 rpm	Permanent/Site
123	Tachometer-Non Contact Type	30000 rpm to 90000 rpm	Using Tachometer & RPM Source Disc Type by Comparison Method	58 rpm	Permanent/Site
124	Vibration Meter - Acceleration @ 10 Hz to 100 Hz	1.4 m/s2 to 60 m/s2	Using Vibration Meter & Vibration Meter Calibrator by comparison method	5.8 %	Permanent/Site
125	Vibration Meter - Displacement (10 Hz to 100 Hz)	0.02 mm to 1.2 mm	Using Vibration Meter & Vibration Meter Calibrator by comparison method	5.0 %	Permanent/Site
126	Vibration Meter - Velocity (10 Hz to 100 Hz)	1 mm/s to 70 mm/s	Using Vibration Meter & Vibration Meter Calibrator by comparison method	6.3 %	Permanent/Site
Discipline-Mechanical , Group : Acoustic					
127	Sound Level Meter @ 1 kHz	114 dB	Using Sound Level Calibrator by Direct Method:	0.73dB	Permanent
128	Sound Level Meter @ 1 kHz	94 dB	Using Sound Level Calibrator by Direct Method	0.73dB	Permanent
Discipline-Mechanical, Group : Hardness & Impact					
129	Rubber Hardness Tester - A,B,E,O	0 to 100 Shore A,B,E,O	Using Load Cell with Indicator as per ASTM-D2240-15 : 2021	0.80 Shore A,B,E,O	Permanent

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130	Rubber Hardness Tester - C,D,DO	0 to 100 Shore C,D,DO	Using Load Cell with Indicator as per ASTM-D2240-15 : 2021	1.2 Shore C,D.DO	Permanent
131	Rubber Hardness Tester - OO, OOO	0 to 100 Shore OO, OOO	Using Load Cell with Indicator as per ASTM-D2240-15 : 2021	1.1 Shore OO, OOO	Permanent
Discipline-Mechanical, Group : Hardness Testing Machines					
132	Rockwell / Portable / Poldy Hardness Testing Machine	HRBW to	Using Reference Blocks as per IS 1586 (Part 2):2018	0.85 HRBW	Site
133	Rockwell / Portable / Poldy Hardness Testing Machine	HRC to	Using Reference Blocks as per IS 1586 (Part 2):2018	0.87 HRC	Site
Discipline-Mechanical, Group : Force					
134	Push Pull Gauge, Force Gauge, Tension Gauge - Push/pull mode	0.5 to 500 N	MS & Al Newton Weights, Hanger Weights & Frame Based on VDI/VDE 2624-2.1	6.7 N	Permanent
135	UTM in Compression Mode & Compression Testing Machine	200 N to 200 kN	Using Force Proving Instruments Based on as per IS 1828 (Part 1):2022	0.81%	Site
136	UTM in Tension Mode & Tensile Testing Machine	100 N to 50 kN	Using Force Proving Instruments Based on as per IS 1828 (Part 1):2022	0.71%	Site
Discipline-Mechanical, Group : Torque					
137	Torque Wrench(Digital / Dial /Manual) Type / Class– B,C,D,E Type II / Class A,B,D,E	0.5 to 5 Nm	Using Torque Sensor with Indicator by comparison method based on IS 16906	6.6 %	Permanent
138	Torque Wrench(Digital / Dial /Manual) Type / Class– B,C,D,E Type II / Class A,B,D,E	5Nm to 1000 Nm	Using Torque Sensor with Indicator by comparison method based on IS 16906	2.0 %	Permanent
Discipline-Mechanical, Group : Pressure and Vacuum					

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139	Differential Pressure Gauge / Magnehelic Gauge / Manometer (Digital / Analog)	0 to 100 mbar	Using Digital Pressure Indicator & Low Pressure Pump by Comparison method as per DKD- R-6-1	0.50 mbar	Permanent/Site
140	Hydraulic Pressure Gauge - Digital / Dial / Analog Pressure Gauge / Pressure Transmitter With Pressure Display/ Transducer With Pressure Display	0 to 1000 bar	Using Digital Pressure Gauge (LC 0.1 bar) & Pressure Pump Based on DKD R6-1	0.45 bar	Permanent/Site
141	Hydraulic Pressure Gauge - Digital / Dial / Analog Pressure Gauge / Pressure Transmitter With Pressure Display/ Transducer With Pressure Display	0 to 70 bar	Using Digital Pressure Gauge (LC 0.001 bar) & Pressure Pump Based on DKD R6-1	0.075 bar	Permanent/Site
142	Hydraulic Pressure Gauge - Digital / Dial / Analog Pressure Gauge / Pressure Transmitter With Pressure Display/ Transducer With Pressure Display	0 to 700 bar	Using Digital Pressure Gauge (LC 0.01 bar) & Pressure Pump Based on DKD R6-1	0.36 bar	Permanent/Site
143	Pneumatic Pressure Gauge - Digital / Dial / Analog Pressure Gauge / Pressure Transmitter With Pressure Display/ Transducer With Pressure Display	0 to 2 bar	Using Digital Pressure Gauge & Pneumatic Pressure Pump Based on DKD R6-1	0.0040 bar	Permanent/Site
144	Vacuum Gauge - Digital / Dial / Analog Vacuum Gauge / Transmitter With Pressure Display / Transducer With Pressure Display	(-)0.9 bar to 0 bar	Using Digital Pressure Gauge & Vacuum Pump Based on DKD R6-1	0.0040 bar	Permanent/Site
Discipline-Mechanical, Group : Density and Viscosity					
145	Hydrometers, Specific Gravity Hydrometers, Lactometers, Brix Hydrometers, Soil Hydrometer	0.600 g/ml to 1.950 g/ml	Using Standard Hydrometer & Liquids of Known Densities By Comparison Method.	0.0020 g/ml	Permanent

Scope of Accreditation for Calibration

As per ISO/IEC 17025:2017

CAB Name: Balaji Control

Address: Near Gounchi Subzi Mandi, Sanjay Colony, 33 ft. Road, Sector-23, Faridabad-121005, Haryana

Certificate No.: C-0015

Issue date : 11.11.2025
Validity : 10.11.2029
Amendment date: N/A

Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
Discipline – Mechanical, Group: - Mass and Volume					
146	Micropipettes	20 µl to 100 µl	Using Weighing Balance (Readability: 0.01 mg) & Distilled Water by Gravimetric Method Based on ISO 8655-6 : 2022 & ISO 20461 : 2023	0.60 µl	Parmanent
147	Micropipette	100 µl to 1000 µl	Using Weighing Balance (Readability: 0.01 mg) & Distilled Water by Gravimetric Method Based on ISO 8655-6 : 2022 & ISO 20461 : 2023	5.8 µl	Parmanent
148	Volumetric Items - (Measuring Cylinder, Beaker, Flask, Burette, Pkyno meter, Lacto & Bytro meter)	1 ml to 20 ml	Using Weighing Balance (Readability: 0.01 mg) & Distilled Water by Gravimetric Method Based on ISO 4787 – 2021	0.060ml	Parmanent
149	Volumetric Items - (Measuring Cylinder, Beaker, Flask, Burette, Pkyno meter, Lacto & Bytro meter)	20 ml to 100 ml	Weighing Balance (Readability: 0.1 mg) & Distilled Water by Gravimetric Method Based on ISO 4787 – 2021	0.13ml	Parmanent
150	Volumetric Items - (Measuring Cylinder, Beaker, Flask, Burette, Pkyno meter, Lacto & Bytro meter)	100 ml to 500 ml	Weighing Balance (Readability: 0.001 g) & Distilled Water by Gravimetric Method Based on ISO 4787 – 2021	1.5 ml	Parmanent
151	Measuring Cylinder, Beaker, Flask, Container	500 ml to 1000 ml	Using Weighing Balance (Readability: 0.01 g) & Distilled Water by Gravimetric Method Based on ISO 4787 – 2021	1.6ml	Parmanent
152	Measuring Cylinder, Beaker, Flask, Container	> 1 l to 5 l	Weighing Balance (Readability: 0.1 g) & Distilled Water by	1.6ml	Parmanent

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
			Gravimetric Method Based on ISO 4787 – 2021		
153	Measuring Cylinder, Beaker, Flask, Container	> 5 l to 20 l	Weighing Balance (Readability: 0.1 g) & Distilled Water by Gravimetric Method Based on ISO 4787 – 2021	16 ml	Parmanent
154	Spring Balance (L.C.: 5 g)	0 kg to 10 kg	Using F2 class weights based on IS 16514-2 2019	5.0 g	Parmanent /Site
155	Spring Balance (L.C.: 10 g)	10 kg to 50 kg	Using F2 class weights based on IS 16514-2 2019	9.1g	Parmanent /Site
156	Weighing Balance / Scale (Digital/dial/electroni c) = 0.001 mg Class I and coarser	0 g to 5 g	E1 class weights based on OIML R 76-1	0.032mg	Site
157	Weighing Balance / Scale (Digital/dial/electroni c) = 0.01 mg Class I and coarser	0 g to 80 g	E1 class weights based on OIML R 76-1	0.052mg	Parmanent /Site
158	Weighing Balance / Scale (Digital/dial/electroni c) = 0.01 mg Class I and coarser	>80 g to 220 g	E1 class weights based on OIML R 76-1	2.5mg	Parmanent /Site
159	Weighing Scale / Balance (Digital / Dial / Electronic) Readability : 0.01 g (Class II and coarser)	>220 g to 6 kg	Using F1 Class Weights based on OIML R 76-1	0.49g	Parmanent /Site
160	Weighing Scale / Balance (Digital / Dial / Electronic) Readability : 0.1 g (Class III and coarser)	>6 kg to 20 kg	Using F1 Class Weights based on OIML R 76-1	1.1g	Parmanent /Site
161	Weighing Scale / Balance (Digital / Dial / Electronic) Readability : 1 g (Class III and coarser)	>20 kg to 50 kg	Using F1 Class Weights based on OIML R 76-1	9.1g	Parmanent /Site
162	Weighing Scale / Balance (Digital / Dial / Electronic) Readability : 5 g (Class IV)	>50 kg to 100 kg	Using F1 Class Weights based on OIML R 76-1	12g	Parmanent /Site
163	Weighing Scale / Balance (Digital / Dial / Electronic) Readability : 10 g (Class IV)	>100 kg to 300 kg	Using F1 / E2 Class Weights based on OIML R 76-1	28g	Parmanent /Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
164	Std. Weight F2 Accuracy class or coarser	1 mg	Using E1 class weights & weighing balance of Readability : 0.01 / 0.1 mg based on OIML R111-1 ABBA Method	0.020mg	Parmanent
165	Std. Weight F2 Accuracy class or coarser	2 mg	Using E1 class weights & weighing balance of Readability : 0.01 / 0.1 mg based on OIML R111-1 ABBA Method	0.020 mg	Parmanent
166	Std. Weight F2 Accuracy class or coarser	5 mg	Using E1 class weights & weighing balance of Readability : 0.01 / 0.1 mg based on OIML R111-1 ABBA Method	0.020 mg	Parmanent
167	Std. Weight F2 Accuracy class or coarser	10 mg	Using E1 class weights & weighing balance of Readability : 0.01 / 0.1mg based on OIML R111-1 ABBA Method	0.020mg	Parmanent
168	Std. Weight F2 Accuracy class or coarser	20 mg	Using E1 class weights & weighing balance of Readability : 0.01 / 0.1 mg) based on OIML R111-1 ABBA Method	0.020 mg	Parmanent
169	Std. Weight F2 Accuracy class or coarser	50 mg	Using E1 class weights & weighing balance of Readability :0.01 / 0.1 mg based on OIML R111-1 ABBA Method	0.020 mg	Parmanent
170	Std. Weight F2 Accuracy class or coarser	100 mg	Using E1 class weights & weighing balance of Readability : 0.01 / 0.1 mg based on OIML	0.020 mg	Parmanent

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Certificate No.: C-0015

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
			R111-1 ABBA Method		
171	Std. Weight F1 Accuracy class or coarser	200 mg	Using E1 class weights & weighing balance of Readability : 0.01 / 0.1 mg based on OIML R111-1 ABBA Method	0.020 mg	Parmanent
172	Std. Weight F1 Accuracy class or coarser	500 mg	Using E1 class weights & weighing balance of Readability : 0.01 / 0.1 mg based on OIML R111-1 ABBA Method	0.020 mg	Parmanent
173	Std. Weight F1 Accuracy class or coarser	1 g	Using E1 class weights & weighing balance of Readability : 0.01 / 0.1 mg based on OIML R111-1 ABBA Method	0.020 mg	Parmanent
174	Std. Weight F1 Accuracy class or coarser	2 g	Using E1 class weights & weighing balance of Readability : 0.01 / 0.1 mg based on OIML R111-1 ABBA Method	0.020 mg	Parmanent
175	Std. Weight F1 Accuracy class or coarser	5 g	Using E1 class weights & weighing balance of Readability : 0.01 / 0.1 mg based on OIML R111-1 ABBA Method	0.020 mg	Parmanent
176	Std. Weight F1 Accuracy class or coarser	10 g	Using E1 class u & weighing balance of Readability : 0.01 / 0.1 mg based on OIML R111-1 ABBA Method	0.020 mg	Parmanent

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
177	Std. Weight F1 Accuracy class or coarser	20 g	Using E1 class weights & weighing balance of Readability : 0.01 / 0.1 mg based on OIML R111-1 ABBA Method	0.030 mg	Parmanent
178	Std. Weight F1 Accuracy class or coarser	50 g	Using E1 class weights & weighing balance of Readability : 0.01 / 0.1 mg based on OIML R111-1 ABBA Method	0.040mg	Parmanent
179	Accuracy class F1 & coarser	100 g	Using E1 class weight & Weighing Balance of Readability: 0.01/0.1 mg based on OIML R111-1 ABBA Method	0.15mg	Parmanent
180	Std. Weight F1 Accuracy class or coarser	200 g	Using E1 class weights & weighing balance of Readability : 0.01 / 0.1 mg based on OIML R111-1 ABBA Method	0.21mg	Parmanent
181	Std Weight F2 Accuracy Class & Coarser	500 g	Using F1 Accuracy Class Weights & Weighing Balance of (Readability : 0.001 g) based on OIML R111-1 ABBA Method	6.5mg	Parmanent
182	Std Weight F2 Accuracy Class & Coarser	1 kg	Using F1 Accuracy Class Weights & Weighing Balance of Readability :0.001 g based on OIML R111-1 ABBA Method	39mg	Parmanent
183	Std. Weight M1 Accuracy Class & Coarser	2 kg	Using F1 Accuracy Class Weights & Weighing Balance of (Readability : 0.01 g) based on OIML	13mg	Parmanent

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
			R111-1 ABBA Method		
184	Std Weight M1 Accuracy Class & Coarser	5 kg	Using F1 Accuracy Class Weights & Weighing Balance of (Readability : 0.01 g) based on OIML R111-1 ABBA Method	13mg	Parmanent
185	Std Weight M1 Accuracy Class & Coarser	10 kg	Using F1 Accuracy Class Weights & Weighing Balance (Readability : 0.1 g) based on OIML R111-1 ABBA Method	0.11 g	Parmanent
186	Std. Weight M1 Accuracy class or coarser	20 Kg	Using F1 Accuracy Class Weights & Weighing Balance of Readability : 0.1g based on OIML R111-1 ABBA Method	0.12 g	Parmanent
187	Non Std. Weight	1 mg to 10 gm	Using Weighing balance of Readability : 0.01 mg based on OIML R111-1 Method	9.2mg	Parmanent
188	Non Std. Weight	10 mg to 60 gm	Using Weighing balance of Readability : 0.01 mg based on OIML R111-1 Method	9.2mg	Parmanent
189	Non Std. Weight	60 gm to 200 gm	Using Weighing balance of Readability : 0.1 mg based on OIML R111-1 Method	9.2mg	Parmanent
190	Non Std. Weight	200 g to 1000 gm	Using Weighing balance of Readability : 0.001 gm based on OIML R111-1 Method	39mg	Parmanent
191	Non Std. Weight	1000 g to 5000 gm	Using Weighing balance of Readability : 0.01 gm based on OIML R111-1 Method	21g	Parmanent

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
192	Non Std. Weight	5000 g to 20000 gm	Using Weighing balance of Readability : 0.1 gm based on OIML R111-1 Method	21g	Parmanent
Discipline : Electro-technical , Group :- Alternating Current (< 1 GHz) (Measure)					
193	3 Phase 4 Wire Active Energy @ 50 Hz (40 V to 300 V, 0.01 A to 100 A, 0.5 to UPF)	0.6 Wh to 30 kWh	Using Three Phase Energy Meter by Direct Method	0.070 % to 0.65%	Permanent/Site
194	3 Phase 4 Wire Active Power @ 50 Hz (240 V, 0.2 A to 5 A, 0.5 to UPF)	66 W to 3300 W	Using Three Phase Energy Meter by Direct Method	0.30%	Permanent/Site
195	AC Current @ 1 kHz to 5 kHz	30 µA to 100 µA	Using 8½ Digit Multimeter by Direct Method	0.95 % to 0.031 %	Permanent/Site
196	AC Current @ 1 kHz to 5 kHz	100 µA to 10 mA	Using 8½ Digit Multimeter by Direct Method	0.031 % to 0.020 %	Permanent/Site
197	AC Current @ 1 kHz to 5 kHz	10 mA to 100 mA	Using 8½ Digit Multimeter by Direct Method	0.020 % to 0.034 %	Permanent/Site
198	AC Current @ 1 kHz to 5 kHz	100 mA to 0.5A	Using 8½ Digit Multimeter by Direct Method	0.034 % to 0.074 %	Permanent/Site
199	AC Current @ 1 kHz to 5 kHz	0.5A to 2 A	Using 8½ Digit Multimeter by Direct Method	0.074 % to 0.064 %	Permanent/Site
200	AC Current @ 1 kHz to 5 kHz	2 A to 20 A	Using 8½ Digit Multimeter by Direct Method	0.064 % to 0.060 %	Permanent/Site
201	AC Current @ 5 kHz to 10 kHz	100 µA to 10 mA	Using 8½ Digit Multimeter by Direct Method	0.17 % to 0.15 %	Permanent/Site
202	AC Current @ 5 kHz to 10 kHz	10 mA to 100 mA	Using 8½ Digit Multimeter by Direct Method	0.15 % to 0.11 %	Permanent/Site
203	AC Current @ 5 kHz to 10 kHz	100 mA to 0.5A	Using 8½ Digit Multimeter by Direct Method	0.11 % to 0.62 %	Permanent/Site
204	AC Current @ 5 kHz to 10 kHz	0.5 A to 20A	Using 8½ Digit Multimeter by Direct Method	0.62 % to 0.21 %	Permanent/Site
205	AC Current @ 50 Hz (Single / Three Phase)	0.01 A to 100 A	Using Three Phase Energy Meter by Direct Method	0.070% to 0.090%	Permanent/Site
206	AC Voltage @ 50 Hz (Single / Three Phase)	40 V to 480 V	Using Three Phase Energy Meter by Direct Method	0.060 %	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
207	AC Current @ 50 Hz to 1 kHz	5 A to 20 A	Using 8½ Digit Multimeter by Direct Method	0.065 % to 0.060%	Permanent/Site
208	AC Current @ 50 Hz to 1 kHz	1 mA to 100 mA	Using 6½ Digit Multimeter by Direct Method	0.070 % to 0.090 %	Permanent/Site
209	AC Current @ 50 Hz to 1 kHz	100 µA to 100 mA	Using 8½ Digit Multimeter by Direct Method	0.031 % to 0.020 %	Permanent/Site
210	AC Current @ 50 Hz to 1 kHz	100 mA to 10 A	Using 6½ Digit Multimeter by Direct Method	0.090 % to 0.50 %	Permanent/Site
211	AC Current @ 50 Hz to 1 kHz	100 mA to 0.5 A	Using 8½ Digit Multimeter by Direct Method	0.020 % to 0.039 %	Permanent/Site
212	AC Current @ 50 Hz to 1 kHz	0.5 A to 2 A	Using 8½ Digit Multimeter by Direct Method	0.039 % to 0.034 %	Permanent/Site
213	AC Current @ 50 Hz to 1 kHz	2 A to 5 A	Using 8½ Digit Multimeter by Direct Method	0.034 % to 0.065 %	Permanent/Site
214	AC Current @ 50 Hz to 1 kHz	30 µA to 100 µA	Using 8½ Digit Multimeter by Direct Method	0.25 % to 0.031 %	Permanent/Site
215	AC High Voltage @ 50 Hz	1 kV to 28 kV	Using High Voltge Probe with 4½ Digit Multimeter by Direct method	4.0 % to 5.0 %	Site
216	AC High Voltage @ 50 Hz	20 kV to 100 kV	Using High Voltage Measuring Set by Direct Method	6.70%	Site
217	AC Voltage @ 1 kHz	100 mV to 750 V	Using 6½ Digit Multimeter by Direct Method	0.030 %	Permanent/Site
218	AC Voltage @ 1 kHz to 5 kHz	1 mV to 100 mV	Using 8½ Digit Multimeter by Direct Method	0.69 % to 0.015 %	Permanent/Site
219	AC Voltage @ 1 kHz to 10 kHz	100 mV to 100 V	Using 8½ Digit Multimeter by Direct Method	0.015 % to 0.0064 %	Permanent/Site
220	AC Voltage @ 1 kHz to 10 kHz	100 V to 1000 V	Using 8½ Digit Multimeter by Direct Method	0.0064 % to 0.0080 %	Permanent/Site
221	AC Voltage @ 10 kHz to 20 kHz	1 mV to 100 mV	Using 8½ Digit Multimeter by Direct Method	0.69 % to 0.017 %	Permanent/Site
222	AC Voltage @ 10 kHz to 20 kHz	100 mV to 200 V	Using 8½ Digit Multimeter by Direct Method	0.017 % to 0.0071 %	Permanent/Site
223	AC Voltage @ 50 Hz	1 mV to 100 mV	Using 6½ Digit Multimeter by Direct Method	0.70 % to 0.010 %	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
224	AC Voltage @ 50 Hz	100 mV to 750 V	Using 6½ Digital Multimeter Digit by Direct Method	0.030 %	Permanent/Site
225	AC Voltage @ 50 Hz to 1 kHz	1 mV to 100 mV	Using 8½ Digit Multimeter by Direct Method	0.70 % to 0.015 %	Permanent/Site
226	AC Voltage @ 50 Hz to 1 kHz	100 mV to 100 V	Using 8½ Digit Multimeter by Direct Method	0.015 % to 0.0060 %	Permanent/Site
227	AC Voltage @ 50 Hz to 1 kHz	100 V to 1000 V	Using 8½ Digit Multimeter by Direct Method	0.0060 % to 0.0080 %	Permanent/Site
228	Capacitance @ 1 kHz	40 nF to 7 µF	Using Digital LCR Meter by Direct Method	0.16% to 2.2%	Permanent/Site
229	Harmonics @ 50 Hz, 230 V, 5A	1 Order to 39 Order	Using Three Phase Energy Meter by Direct Method	0.92%	Permanent/Site
230	Inductance @ 1 kHz	100 µH to 800 mH	Using Digital LCR Meter by Direct Method	0.85% to 3.3%	Permanent/Site
231	Magnet (Gauss)	2.5 Gauss to 10 kGauss	Using Digital Gauss Meter by Direct Method	5.90%	Permanent/Site
232	Power Factor (Lag / Lead) @ 50 Hz, 240 V, 10 A	0.2 PF to UPF	Using Three Phase Energy Meter by Direct Method	0.060 PF	Permanent/Site
233	Single Phase Active Power @ 50 Hz (40 V to 300 V, 0.01 A to 100 A, 0.5 PF to UPF)	0.2 W to 30 kW	Using Three phase Meter by Direct method	0.10%	Permanent/Site
234	Three Phase 4 wire AC Active Energy @ 50 Hz (220 V to 230 V, 0.2 A to 3.9 A, 0.5 to UPF)	0.066 kWh to 0.45 kWh	Using Three Phase Energy Meter by Direct Method	0.24%	Permanent/Site
235	Three Phase 4 wire AC Active Power @ 50 Hz (40 V to 300 V, 0.01 A to 100 A, 0.5 (Lead / Lag) to UPF)	0.6 W to 90 kW	Using Three Phase Energy Meter by Direct Method	0.08%	Permanent/Site
Discipline : Electro-technical , Group :- Alternating Current (< 1 GHz) (Source)					
234	AC Active Power @ 50 Hz (30 V to 1000 V, 0.01 A to 20 A, UPF)	0.3 W to 20 kW	Using MPC by Direct method	0.040 % to 0.080 %	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
235	AC Active Power @ 50 Hz (30 V to 1000 V, 0.01 A to 20 A, 0.1 Lag/Lead)	0.03 W to 1200 W	Using MPC by Direct method	0.060 % to 0.31 %	Permanent/Site
236	AC Active Power @ 50 Hz (30 V to 1000 V, 0.01 A to 20 A, 0.5 Lag/Lead)	0.150 W to 6000 W	Using MPC by Direct method	0.050 % to 0.080 %	Permanent/Site
237	AC Current @ 1 kHz	330 mA to 3.3 A	Using Multi Product Calibrator by Direct Method	0.015 % to 0.034 %	Permanent/Site
238	AC Current @ 1 kHz	3.3 A to 20 A	Using Multi Product Calibrator by Direct Method	0.034 % to 0.030 %	Permanent/Site
239	AC Current @ 1 kHz	3.3 mA to 330 mA	Using Multi Product Calibrator by Direct Method	0.014 % to 0.015 %	Permanent/Site
240	AC Current @ 1 kHz	30 µA to 330 µA	Using Multi Product Calibrator by Direct Method	0.026 % to 0.021 %	Permanent/Site
241	AC Current @ 1 kHz	330 µA to 3.3 mA	Using Multi Product Calibrator by Direct Method	0.021 % to 0.014 %	Permanent/Site
242	AC Current @ 50 Hz	330 mA to 3.3 A	Using Multi Product Calibrator by Direct Method	0.028 % to 0.032 %	Permanent/Site
243	AC Current @ 50 Hz	3.3 mA to 20 A	Using Multi Product Calibrator by Direct Method	0.032 % to 0.023 %	Permanent/Site
244	AC Current @ 50 Hz	3.3 mA to 330 mA	Using Multi Product Calibrator by Direct Method	0.015 % to 0.028 %	Permanent/Site
245	AC Current @ 50 Hz	30 µA to 330 µA	Using Multi Product Calibrator by Direct Method	0.26 % to 0.021 %	Permanent/Site
246	AC Current @ 50 Hz	330 µA to 3.3 mA	Using Multi Product Calibrator by Direct Method	0.021 % to 0.015 %	Permanent/Site
247	AC High Current @ 50 Hz	20 A to 1000 A	Using MPC & Current Coil 50 Turn by Direct Method	1.6% to 0.82%	Permanent/Site
248	Ac Voltage @ 10 kHz	1 mV to 100 mV	Using MPC by Direct method	0.51 % to 0.0090 %	Permanent/Site
249	Ac Voltage @ 10 kHz	100 mV to 100 V	Using MPC by Direct method	0.0090 % to 0.0070 %	Permanent/Site
250	Ac Voltage @ 10 kHz	100 V to 330 V	Using MPC by Direct method	0.0070 % to 0.0090 %	Permanent/Site
251	Ac Voltage @ 10 kHz	330 V to 1000 V	Using MPC by Direct method	0.0090 % to 0.0070 %	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
252	AC Voltage @ 50 Hz	1 mV to 33 mV	Using MPC by Direct method	0.33 % to 0.012 %	Permanent/Site
253	AC Voltage @ 1 kHz	1 mV to 33 mV	Using MPC by Direct method	0.52 % to 0.0060 %	Permanent/Site
254	AC Voltage @ 50 Hz	33 mV to 100 mV	Using MPC by Direct method	0.012 % to 0.0060 %	Permanent/Site
255	AC Voltage @ 1 kHz	33 mV to 100 mV	Using MPC by Direct method	0.0060 % to 0.0070 %	Permanent/Site
256	AC Voltage @ 50 Hz	100 mV to 330 mV	Using MPC by Direct method	0.0060 %	Permanent/Site
257	AC Voltage @ 1 kHz	100 mV to 330 mV	Using MPC by Direct method	0.0070 %	Permanent/Site
258	AC Voltage @ 50 Hz	330 mV to 1000 V	Using MPC by Direct method	0.0060 % to 0.0050 %	Permanent/Site
259	AC Voltage @ 1 kHz	330 mV to 1000 V	Using MPC by Direct method	0.0070 % to 0.0050 %	Permanent/Site
260	Capacitance @ 1 kHz	220 pF to 0.5 nF	Using MPC by Direct method	0.070 %	Permanent/Site
261	Capacitance @ 1 kHz	0.5 nF to 100 nF	Using MPC by Direct method	0.066% to 0.062 %	Permanent/Site
262	Capacitance @ 1 kHz	100 nF to 300 nF	Using MPC by Direct method	0.062% to 0.065 %	Permanent/Site
263	Capacitance @ 1 kHz	100 pF to 100 µF	Using Decade Capacitance Box by Direct Method	0.60%	Permanent/Site
264	Capacitance @ 100 Hz	1µF to 10 µF	Using MPC by Direct method	0.065 % to 0.099 %	Permanent/Site
265	Capacitance @ 100 Hz	10 µF to 100 µF	Using MPC by Direct method	0.099 % to 0.076 %	Permanent/Site
266	Inductance @ 1 kHz	100 µH to 1000 mH	Using Decade Inductance Box by Direct Method	0.65%	Permanent/Site
267	Power Factor @ 50 Hz, 240 V, 10 A (Lag / Lead)	0.1 PF to UPF	Using MPC by Direct method	0.0060 PF	Permanent/Site
268	Single phase Active Power @ 50 Hz (220 V to 230 V, 0.2 A to 3.9 A, 0.5 (lag / Lead) to UPF)	22 W to 897 W	Using Three Phase Energy Meter by Direct Method	0.30%	Permanent/Site

Scope of Accreditation for Calibration

As per ISO/IEC 17025:2017

CAB Name: Balaji Control

Address: Near Gounchi Subzi Mandi, Sanjay Colony, 33 ft. Road, Sector-23, Faridabad-121005, Haryana

Certificate No.: C-0015

Issue date : 11.11.2025
Validity : 10.11.2029
Amendment date: N/A

Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
269	Three phase Active Power @ 50 Hz (220 V to 230 V, 0.2 A to 3.9 A, 0.5 (lag / Lead) to UPF)	66 W to 2691 W	Using Three Phase Energy Meter by Direct Method	0.30%	Permanent/Site
Discipline: Electro-technical, Group: - Direct Current (< 1 GHz) (Measure)					
270	DC Current	10 µA to 100 mA	Using 6½ Digit Multimeter by Direct Method	0.90 % to 0.050 %	Permanent/Site
271	DC Current	100 µA to 100 mA	Using 8½ Digit Multimeter by Direct Method	0.012 % to 0.0062 %	Permanent/Site
272	DC Current	100 mA to 10 A	Using 6½ Digit Digital Multimeter by Direct Method	0.050 % to 0.090 %	Permanent/Site
273	DC Current	100 mA to 2 A	Using 8½ Digit Multimeter by Direct Method	0.0062 % to 0.018 %	Permanent/Site
274	DC Current	2 A to 5 A	Using 8½ Digit Multimeter by Direct Method	0.018 % to 0.029 %	Permanent/Site
275	DC Current	5 A to 10 A	Using 8½ Digit Multimeter by Direct Method	0.029 % to 0.032 %	Permanent/Site
276	DC Current	10 A to 20 A	Using 8½ Digit Multimeter by Direct Method	0.032 % to 0.019 %	Permanent/Site
277	DC Current	1 µA to 100 µA	Using 8½ Digit Multimeter by Direct Method	0.7% to 0.012%	Permanent /Site
278	DC High Voltage	1 kV to 25 kV	Using High voltage probe with 4½ Digit Digital Multimeter by Direct Method	3.6 % to 3.3 %	Site
279	DC Resistance (2 Wire)	100 kohm to 100 Mohm	Using 6½ Digit Digital Multimeter by Direct Method	0.030% to 0.14%	Permanent/Site
280	DC Resistance (2 Wire)	100 Mohm to 20 Gohm	Using 8½ Digit Multimeter by Direct Method	0.024 % to 1.2 %	Permanent/Site
281	DC Resistance (4 Wire)	10 kohm to 100 kohm	Using 8½ Digit Multimeter & MFC by Direct Method	0.00080 % to 0.0041 %	Permanent/Site
282	DC Resistance (4 Wire)	10 ohm to 100 kohm	Using 6½ Digit Digital Multimeter by Direct Method	0.010 % to 0.030 %	Permanent/Site
283	DC Voltage	0.01 mV to 0.1 mV	Using 8½ Digit Multimeter by Direct Method	5.0 % to 0.49 %	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
284	DC Voltage	0.1 mV to 1 mV	Using 8½ Digit Multimeter by Direct Method	0.49 % to 0.13 %	Permanent/Site
285	DC Voltage	1 mV to 100 mV	Using 8½ Digit Digital Multimeter by Direct Method	0.013 % to 0.0015 %	Permanent/Site
286	DC Voltage	1 mV to 100 mV	Using 6½ Digit Multimeter by Direct Method	0.50 % to 0.010 %	Permanent/Site
287	DC Voltage	100 mV to 100 V	Using 8½ Digit Multimeter by Direct Method	0.0015 % to 0.00071 %	Permanent/Site
288	DC Voltage	100 mV to 1000 V	Using 6½ Digit Multimeter by Direct Method	0.010 % to 0.016 %	Permanent/Site
289	DC Voltage	100 V to 1000 V	Using 8½ Digit Digital Multimeter by Direct Method	0.00071 % to 0.0011 %	Permanent/Site
290	Resistance (4 Wire)	0.1 ohm to 10 kohm	Using 8½ Digit Multimeter by Direct Method	0.016 % to 0.00080 %	Permanent/Site
291	Resistance (2 Wire)	100 kohm to 100 Mohm	Using 8½ Digit Multimeter by Direct Method	0.0041 % to 0.024 %	Permanent/Site
292	Resistance (2 Wire) @ 1 kV	20 Gohm to 1 Tohm	Using Digital High Insulation Tester by Direct Method	1.7 % to 7.3%	Permanent/Site
293	Resistance (2 Wire) upto 1 kV	1 Mohm to 20 Gohm	Using Digital Insulation tester by Direct Method	3.0 % to 3.6 %	Permanent/Site
294	Resistance (4 Wire)	0.001 ohm to 0.1 ohm	Using 8½ Digit Multimeter by Direct Method	0.56 % to 0.010 %	Permanent/Site
295	Resistance (4 Wire)	0.1 ohm to 10 kohm	Using 8½ Digit Multimeter by Direct Method	0.010 % to 0.00080 %	Permanent/Site
296	Resistance (4 Wire)	1 mohm to 10 mohm	Using Digital Micro ohm meter by Direct Method	0.90 %	Permanent/Site
297	Resistance (4 Wire)	10 kohm to 100 kohm	Using 8½ Digit Multimeter by Direct Method	0.00080 % to 0.0041 %	Permanent/Site
298	Resistance (4 Wire)	10 mohm to 10 ohm	Using Digital Micro ohm meter by Direct Method	0.90 %	Permanent/Site
Discipline : Electro-technical , Group :- Direct Current (Source)					

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
299	DC Current	100 µA to 100 mA	Using MPC by Direct Method	0.010 %	Permanent/Site
300	DC Current	100 mA to 3 A	Using MPC by Direct Method	0.011 % to 0.067%	Permanent/Site
301	DC Current	3 A to 20 A	Using MPC by Direct Method	0.067 % to 0.051 %	Permanent/Site
302	DC High Current	20 A to 1000 A	Using MPC with Current Coil 50 Turn by Direct Method	2.0 % to 0.90 %	Permanent/Site
303	DC Power (1 V to 1000 V, 0.01 A to 20 A)	0.01 W to 20000 W	Using MPC by Direct Method	4.4 % to 0.15 %	Permanent/Site
304	DC Resistance (2 Wire)	10 Mohm to 100 Mohm	Using MPC by Direct Method	0.0072 % to 0.033 %	Permanent/Site
305	DC Resistance (2 Wire)	100 Mohm to 1000 Mohm	Using MPC by Direct Method	0.033 % to 0.33 %	Permanent/Site
306	DC Resistance (2 Wire)	100 kohm to 10 Mohm	Using MPC by Direct Method	0.010 % to 0.0072 %	Permanent/Site
307	DC Resistance (4 Wire)	0.1 ohm to 1 ohm	Using MPC by Direct Method	0.58 % to 0.058 %	Permanent/Site
308	DC Resistance (4 Wire)	1 ohm to 10 kohm	Using MPC by Direct Method	0.058 % to 0.0060 %	Permanent/Site
309	DC Resistance (4 Wire)	10 kohm to 30 kohm	Using MPC by Direct Method	0.0060 % to 0.033 %	Permanent/Site
310	DC Resistance (4 Wire)	30 kohm to 100 kohm	Using MPC by Direct Method	0.033 % to 0.010 %	Permanent/Site
311	DC Voltage	0.1 mV to 1 mV	Using MPC by Direct Method	0.30 % to 0.031 %	Permanent/Site
312	DC Voltage	1 mV to 10 mV	Using MPC by Direct Method	0.031 % to 0.0040 %	Permanent/Site
313	DC Voltage	10 mV to 100 mV	Using MPC by Direct Method	0.004 % to 0.0011 %	Permanent/Site
314	DC Voltage	100 mV to 330 mV	Using MPC by Direct Method	0.0011 % to 0.00080 %	Permanent/Site
315	DC Voltage	330 mV to 33 V	Using MPC by Direct Method	0.00080 % to 0.0016 %	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
316	DC Voltage	33 V to 330 V	Using MPC by Direct Method	0.0016 % to 0.00080 %	Permanent/Site
317	DC Voltage	330 V to 1000 V	Using MPC by Direct Method	0.00080 % to 0.00070 %	Permanent/Site
318	Resistance (2 Wire)	115 Mohm	Using Std. Resistance Box by Direct Method	0.12%	Permanent/Site
319	Resistance (2 Wire)	1 Gohm	Using Std. Resistance Box by Direct Method	0.70%	Permanent/Site
320	Resistance (2 Wire)	1 ohm to 100 Mohm	Using Decade Resistance Box Direct Method	0.015 % to 0.025 %	Permanent/Site
321	Resistance (2 Wire)	10 Gohm	Using Std. Resistance Box by Direct Method	0.70%	Permanent/Site
322	Resistance (2 Wire)	10 kohm	Using Std. Resistance Box by Direct Method	0.30%	Permanent/Site
323	Resistance (2 Wire)	10 Mohm	Using Std. Resistance Box by Direct Method	0.030 %	Permanent/Site
324	Resistance (2 Wire)	100 Mohm	Using Std. Resistance Box by Direct Method	0.12%	Permanent/Site
325	Resistance (2 Wire)	2 Gohm	Using Std. Resistance Box by Direct Method	0.70%	Permanent/Site
326	Resistance (2 Wire)	2 Mohm	Using Std. Resistance Box by Direct Method	0.60%	Permanent/Site
327	Resistance (2 Wire)	20 Mohm	Using Std. Resistance Box by Direct Method	0.030 %	Permanent/Site
328	Resistance (2 Wire)	200 Mohm	Using Std. Resistance Box by Direct Method	0.40%	Permanent/Site
329	Resistance (2 Wire)	25 Mohm	Using Std. Resistance Box by Direct Method	0.12%	Permanent/Site
330	Resistance (2 Wire)	40 Mohm	Using Std. Resistance Box by Direct Method	0.030 %	Permanent/Site
331	Resistance (2 Wire)	5 Mohm	Using Std. Resistance Box by Direct Method	0.030 %	Permanent/Site
332	Resistance (2 Wire)	50 kohm	Using Std. Resistance Box by Direct Method	0.30%	Permanent/Site
333	Resistance (2 Wire)	50 Mohm	Using Std. Resistance Box by Direct Method	0.12%	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
334	Resistance (2 Wire)	75 Mohm	Using Std. Resistance Box by Direct Method	0.12%	Permanent/Site
335	Resistance (2 Wire) 500 V to 1 kV	20 Gohm	Using Std. Resistance Box by Direct Method	1.2 %	Permanent/Site
336	Resistance (4 Wire)	1 kohm	Using Std. Resistance Box by Direct Method	0.30%	Permanent/Site
337	Resistance (4 Wire)	1 kohm	Using Std. Resistance Box by Direct Method	0.30%	Permanent/Site
338	Resistance (4 Wire)	1 mohm	Using Std. Resistance Box by Direct Method	0.30%	Permanent/Site
339	Resistance (4 Wire)	1 ohm	Using Std. Resistance Box by Direct Method	0.30%	Permanent/Site
340	Resistance (4 Wire)	10 mohm	Using Std. Resistance Box by Direct Method	0.30%	Permanent/Site
341	Resistance (4 Wire)	10 ohm	Using Std. Resistance Box by Direct Method	0.30%	Permanent/Site
342	Resistance (4 Wire)	100 µohm to 100 mohm	Using Low Resistance Box by Direct Method	1.5 % to 1.4 %	Permanent/Site
343	Resistance (4 Wire)	100 kohm	Using Std. Resistance Box by Direct Method	0.30%	Permanent/Site
344	Resistance (4 Wire)	100 mohm	Using Std. Resistance Box by Direct Method	0.30%	Permanent/Site
345	Resistance (4 Wire)	100 mohm to 1 ohm	Using Low Resistance Box by Direct Method	1.8 %	Permanent/Site
346	Resistance (4 Wire)	100 ohm	Using Std. Resistance Box by Direct Method	0.30%	Permanent/Site
347	Resistance (4 Wire)	5 kohm	Using Std. Resistance Box by Direct Method	0.010 %	Permanent/Site
348	Resistance (4 Wire)	50 µohm to 100 µohm	Using Low Resistance Box by Direct Method	1.8 %	Permanent/Site
349	Resistance 2 Wire (1 kV)	20 Gohm to 1 Tohm	Using High Resistance Box by Direct Method	1.2 % to 3.1 %	Permanent/Site
Discipline - Electro- Technical, Group : Temperature Simulation (Measure)					
350	B Type Thermocouple	600 °C to 1500 °C	Using Digital Thermometer by Direct Method	1.1 °C	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
351	B Type Thermocouple	600 °C to 1800 °C	Using MPC by Direct Method	0.12 °C	Permanent/Site
352	B Type Thermocouple	600 °C to 1800 °C	Using Universal Calibrator by Direct Method	1.3 °C	Permanent/Site
353	E Type Thermocouple	(-)100 °C to 500 °C	Using Digital Thermometer by Direct Method	0.49 °C	Permanent/Site
354	E Type Thermocouple	(-)200 °C to 1000 °C	Using Universal Calibrator by Direct Method	0.40 °C	Permanent/Site
355	E Type Thermocouple	(-)200 °C to 1000 °C	Using MPC by Direct Method	0.11 °C	Permanent/Site
356	J Type Thermocouple	(-)200 °C to 1200 °C	Using MPC by Direct Method	0.080 °C	Permanent/Site
357	J Type Thermocouple	(-)200 °C to 1000 °C	Using Universal calibrator by Direct Method	0.20 °C	Permanent/Site
358	J Type Thermocouple	(-)200 °C to 1200 °C	Using Digital Thermometer by Direct Method	0.60 °C	Permanent/Site
359	K Type Thermocouple	(-)200 °C to 1300 °C	Using MPC by Direct Method	0.097 °C	Permanent/Site
360	K Type Thermocouple	(-)200 °C to 1200 °C	Using Digital Thermometer by Direct Method	0.60 °C	Permanent/Site
361	K Type Thermocouple	0 °C to 1200 °C	Using Universal Calibrator by Direct Method	0.20 °C	Permanent/Site
362	N Type Thermocouple	(-)200 °C to 1300 °C	Using MPC by Direct Method	0.10 °C	Permanent/Site
363	N Type Thermocouple	(-)200 °C to 1300 °C	Using Digital Thermometer by Direct Method	0.60 °C	Permanent/Site
364	R Type Thermocouple	0 °C to 1700 °C	Using MPC by Direct Method	0.11 °C	Permanent/Site
365	R Type Thermocouple	100 °C to 1700 °C	Using Digital Thermometer by Direct Method	0.95 °C	Permanent/Site
366	R Type Thermocouple	300 °C to 1700 °C	Using Universal Calibrator by Direct Method	0.30 °C	Permanent/Site
367	RTD (PT-100)	(-)200 °C to 800 °C	Using 8½ Digit Multimeter by Direct Method	0.050 °C	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
368	RTD (PT-100) Type	(-)200 °C to 800 °C	Using Digital Thermometer by Direct Method	0.30 °C	Permanent/Site
369	RTD (PT-100) Type	(-)200 °C to 800 °C	Using Universal Calibrator by Direct Method	0.20 °C	Permanent/Site
370	S Type Thermocouple	0 °C to 1700 °C	Using MPC by Direct Method	0.12 °C	Permanent/Site
371	S Type Thermocouple	100 °C to 1700 °C	Using Universal Calibrator by Direct Method	0.30 °C	Permanent/Site
372	S Type Thermocouple	100 °C to 1700 °C	Using Digital Thermometer by Direct Method	0.95 °C	Permanent/Site
373	T Type Thermocouple	(-)150 °C to 300 °C	Using Universal Calibrator by Direct Method	0.30 °C	Permanent/Site
374	T Type Thermocouple	(-)200 °C to 390 °C	Using Digital Thermometer by Direct Method	0.72 °C	Permanent/Site
375	T Type Thermocouple	(-)200 °C to 400 °C	Using MPC by Direct Method	0.11 °C	Permanent/Site
376	L Type Thermocouple	(-)200 °C to 900 °C	Using MPC by Direct Method	0.11 °C	Permanent/Site
377	C Type Thermocouple	0 °C to 1800 °C	Using MPC by Direct Method	0.12 °C	Permanent/Site
Discipline - Electro- Technical , Group : Temperature Simulation (Source)					
378	B Type Thermocouple	600 °C to 1800 °C	Using MPC by Direct Method	0.10 °C	Permanent/Site
379	B Type Thermocouple	600 °C to 1750 °C	Using Process Meter by Direct Method	2.5 °C	Permanent/Site
380	B Type Thermocouple	600 °C to 1800 °C	Using Universal Calibrator by Direct Method	1.5 °C	Permanent/Site
381	E Type Thermocouple	(-)100 °C to 600 °C	Using Process Meter by Direct Method	2.9 °C	Permanent/Site
382	E Type Thermocouple	(-)200 °C to 1000 °C	Using Universal Calibrator by Direct Method	0.71 °C	Permanent/Site
383	E Type Thermocouple	(-)250 °C to 1000 °C	Using MPC by Direct Method	0.070 °C	Permanent/Site
384	J Type Thermocouple	(-)200 °C to 1200 °C	Using MPC by Direct Method	0.050 °C	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
385	J Type Thermocouple	(-)200 °C to 1100 °C	Using Universal Calibrator by Direct Method	0.70 °C	Permanent/Site
386	J Type Thermocouple	(-)200 °C to 1200 °C	Using Process Meter by Direct Method	1.2 °C	Permanent/Site
387	K Type Thermocouple	(-)200 °C to 1300 °C	Using MPC by Direct Method	0.050 °C	Permanent/Site
388	K Type Thermocouple	(-)200 °C to 1200 °C	Using Process Meter by Direct Method	1.3 °C	Permanent/Site
389	K Type Thermocouple	(-)200 °C to 1300 °C	Using Universal Calibrator by Direct Method	0.70 °C	Permanent/Site
390	N Type Thermocouple	(-)200 °C to 1300 °C	Using MPC by Direct Method	0.060 °C	Permanent/Site
391	N Type Thermocouple	(-)200 °C to 1300 °C	Using Process Meter by Direct Method	1.8 °C	Permanent/Site
392	R Type Thermocouple	0 °C to 1700 °C	Using Process Meter by Direct Method	1.5 °C	Permanent/Site
393	R Type Thermocouple	0 °C to 1750 °C	Using MPC by Direct Method	0.072 °C	Permanent/Site
394	R Type Thermocouple	300 °C to 1700 °C	Using Universal Calibrator by Direct Method	1.3 °C	Permanent/Site
395	RTD (PT 100) Type	(-)200 °C to 800 °C	Using MPC by Direct Method	0.040 °C	Permanent/Site
396	RTD (PT-100) Type	(-)200 °C to 800 °C	Using Process Meter by Direct Method	1.2 °C	Permanent/Site
397	RTD (PT-100) Type	(-)200 °C to 800 °C	Using Universal Calibrator by Direct Method	0.70 °C	Permanent/Site
398	S Type Thermocouple	0 °C to 1700 °C	Using MPC by Direct Method	0.070 °C	Permanent/Site
399	S Type Thermocouple	0 °C to 1700 °C	Using Process Meter by Direct Method	2.1 °C	Permanent/Site
400	S Type Thermocouple	300 °C to 1750 °C	Using Universal Calibrator by Direct Method	1.3 °C	Permanent/Site
401	T Type Thermocouple	(-)150 °C to 350 °C	Using Universal Calibrator by Direct Method	0.70 °C	Permanent/Site
402	T Type Thermocouple	(-)200 °C to 400 °C	Using MPC by Direct Method	0.050 °C	Permanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
403	T Type Thermocouple	0 °C to 400 °C	Using Process Meter by Direct Method	1.2 °C	Permanent/Site
404	C Type Thermocouple	0 °C to 1800 °C	Using MPC by Direct Method	0.090 °C	Permanent/Site
405	L Type Thermocouple	(-)200 °C to 900 °C	Using MPC by Direct Method	0.13 °C	Permanent/Site
Discipline - Electro- Technical, Group :- Time & Frequency (Measure)					
406	Frequency	10 Hz to 100 kHz	Using 8½ Digit Multimeter by Direct Method	0.0030 %	Permanent/Site
407	Frequency	10 Hz to 300 KHz	Using 6½ Digit Multimeter by Direct Method	0.0090% to 0.067%	Permanent/Site
408	Frequency @ 240V	40 to 70 Hz	Using Three Phase Energy Meter by Direct Method	0.070 %	Permanent/Site
409	Frequency	10 Hz to 1 kHz	Using Digital Frequency Meter by Direct Method	0.015% to 0.90%	Permanent/Site
410	Frequency	1 kHz to 1 MHz	Using Digital Frequency Meter by Direct Method	0.90 % to 0.95%	Permanent/Site
411	Frequency	1 MHz to 350 MHz	Using Digital Frequency Meter by Direct Method	0.95 % to 0.11%	Permanent/Site
412	Frequency @ 3V	100 kHz to 1 MHz	Using 8½ Digit Multimeter by Direct Method	0.0080 %	Permanent/Site
413	Time	10 s to 1000 s	Using Digital Time Interval Meter by Direct Method	0.70 s	Permanent/Site
414	Time	1000 s to 3600 s	Using Digital Time Interval Meter by Direct Method	6.1 s	Permanent/Site
415	Time	5 s to 1000 s	Using Timer Calibrator by Direct Method	0.75 s to 1.0 s	Permanent/Site
416	Time	1000 s to 10000 s	Using Timer Calibrator by Direct Method	1.0 s to 1.2 s	Permanent/Site
417	Time	10000 s to 50000 s	Using Timer Calibrator by Direct Method	1.2 s to 1.3 s	Permanent/Site
418	Time	50000 s to 80000 s	Using Timer Calibrator by Direct Method	1.3 s to 11 s	Permanent/Site
Discipline - Electro- Technical, Group: - Time & Frequency (Source)					

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
419	Frequency	1 MHz to 3 MHz	Using Frequency generator by Direct Method	0.0082 %	Permanent/Site
420	Frequency	1 MHz to 350 MHz	Using Multi Product Calibrator by Direct Method	0.00030 %	Permanent/Site
421	Frequency	1 Hz to 2 MHz	Using MPC by Direct Method	0.00070 %	Permanent/Site
Discipline - Electro- Technical, Group:- Electrical Equipment (Measure)					
422	DPM Meter (Transmitter/Switch)	15 mV to 75 mV	Using Process by Direct Method	0.010 %	Permanent/Site
423	DPM Meter (Transmitter/Switch)	45 Hz to 55 Hz	Using Process by Direct Method	0.010%	Permanent/Site
424	DPM Meter (Transmitter/Switch)	4 mA to 20 mA	Using Process by Direct Method	0.010%	Permanent/Site
425	Frequency Counter Meter - 100 Hz	100 Count ot 90000 Count	Using Digital Frequency Counter Meter	1.5 %	Permanent/Site
426	Frequency Counter Meter - 1 kHz	100 Count ot 90000 Count	Using Digital Frequency Counter Meter	1.5 %	Permanent/Site
Discipline - Electro- Technical, Group:- Electrical Equipment (Source)					
427	pH by Simulation (0 to 14 pH)	(-)414 mV to 414 mV	Using Universal Calibrator & pH Calibration Stanard by direct method	0.40%	Permanent/Site
428	Oscilloscope Bandwidth (Leveling)	100 k Hz to 350 M Hz	Multi Product Calibrator by Direct Method	2.30%	Permanent/Site
429	Oscilloscope - DC Voltage @ 1 MΩ	1 mV to 33 V	Multi Product Calibrator by Direct Method	0.35%	Permanent/Site
430	Oscilloscope - DC Voltage @ 50 Ω	1 mV to 2.2 V	Multi Product Calibrator by Direct Method	0.35%	Permanent/Site
431	Oscilloscope - Square Wave @ 1kHz (Vp-p)	10 mV to 55 V	Multi Product Calibrator by Direct Method	0.35%	Permanent/Site
432	Oscilloscope - Horizontal - Time Base	2 ns to 1 s	Multi Product Calibrator by Direct Method	0.00070 %	Permanent/Site

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Validity : 10.11.2029
Amendment date: N/A

Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
Discipline - Electro- Technical, Group - Electrical Equipment (Source)					
433	DPM Meter (Transmitter/Switch)	45 Hz to 55 Hz	Using Process by Direct Method	0.010 %	Permanent/Site
434	DPM Meter (Transmitter/Switch)	4 mA to 20 mA	Using Process by Direct Method	0.010 %	Permanent/Site
435	DPM Meter (Transmitter/Switch)	15 mV to 75 mV	Using Process by Direct Method	0.010 %	Permanent/Site
436	Gauss Meter	2.5 Gauss to 10.14 kGauss	Using Magnet	5.9 %	Permanent/Site
Discipline – Thermal, Group: - Temperature					
437	I.R. Thermometer ,Laser Gun , Optical Pyrometer, Thermal Imager, (Non Medical Purpose)	50 °C to 300 °C	Using I.R. Thermometer and Black Body Source (Emissivity : 0.95) by Comparison Calibration	4.7 °C	Parmanent/Site
438	I.R. Thermometer, Laser Gun, Optical Pyrometer, Thermal Imager, (Non Medical Purpose)	300 °C to 500 °C	Using I.R. Thermometer and Black Body Source (Emissivity : 0.95) by Comparison Calibration)	4.8 °C	Parmanent/Site
439	I.R. Thermometer, Laser Gun, Optical Pyrometer, Thermal Imager, (Non Medical Purpose)	500 °C to 900 °C	Using I.R. Thermometer and Black Body Source (Emissivity : 0.95) by Comparison Calibration)	5.0 °C	Parmanent/Site
440	I.R. Thermometer, Laser Gun, Optical Pyrometer, Thermal Imager, (Non Medical Purpose)	500 °C to 1500 °sC	Using I.R. Thermometer and Black Body Source (Emissivity : 0.95) by Comparison Calibration)	7 °C up to 1500°C	Parmanent
441	Temperature Indicator With Sensor Of Black Body Source (Emissivity 0.95) - (Single Position Calibration)	50 °C to 500 °C	Using I.R. Thermometer by Comparison Method	4.9 °C	Parmanent/Site
442	Liquid In Glass Thermometer	(-) 40 °C to 250 °C	Using SPRT With Digital Temperature Indicator With Temp Bath by Comparison Calibration	1.5 °C	Parmanent/Site
443	RTDs, PRT, Thermocouple with or without Temperature Indicator/	(-) 80 °C to (-) 40°C	Using PRT With Digital Temp Indicator & Low Temperature Liquid Bath,	0.56 °C	Parmanent/Site

Scope of Accreditation for Calibration

As per ISO/IEC 17025:2017

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
	Controller / Data Logger / Recorder, Digital Thermometer, Temperature Transmitter with Sensor		Digital Multimeter by Comparison Calibration		
444	RTDs, PRT, Thermocouple with or without Temperature Indicator/ Controller / Data Logger / Recorder, Digital Thermometer, Temperature Transmitter with Sensor	(-) 40 °C to 50 °C	Using PRT With Digital Temp Indicator & Low Temperature Liquid Bath, Digital Multimeter by Comparison Calibration	0.59 °C	Parmanent/Site
445	RTDs, PRT, Thermocouple with or without Temperature Indicator/ Controller / Data Logger / Recorder, Digital Thermometer, Temperature Transmitter with Sensor	50 °C to 150 °C	Using SPRT With Digital Temperature Indicator & Low Temperature Liquid Bath, Digital Multimeter by Comparison Calibration	0.56 °C	Parmanent/Site
446	RTDs, PRT, Thermocouple with or without Temperature Indicator/ Controller / Data Logger / Recorder, Digital Thermometer, Temperature Transmitter with Sensor	150 °C to 250 °C	Using PRT With Digital Temperature Indicator And Liquid & Oil Bath, Digital Multimeter by Comparison Calibration	0.55 °C	Parmanent/Site
447	Thermocouple with or without Temperature Indicator/ Controller / Data Logger / Recorder /Digital Thermometer, Temperature Transmitter with Sensor	250 °C to 600 °C	Using S Type Thermocouple With Digital Temperature Indicator & Dry Block Furnace, Digital Multimeter by Comparison Calibration	1.2°C	Parmanent/Site
448	Thermocouple with or without Temperature Indicator/ Controller / Data Logger / Recorder, Digital Thermometer, Temperature Transmitter with Sensor	600 °C to 800 °C	Using S Type Thermocouple With Digital Temperature Indicator & Dry Block Furnace, Digital Multimeter by Comparison Calibration	2.1 °C	Parmanent/Site
449	Thermocouple with or without Temperature Indicator/ Controller	800 °C to 1200 °C	Using S Type Thermocouple With Digital Temperature Indicator &	2.4 °C	Parmanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
	/ Data Logger / Recorder /Digital Thermometer, Temperature Transmitter with Sensor		Dry Block Furnace, Digital Multimeter by Comparison Calibration		
450	Temp Gauge	0 °C to 250 °C	Using SPRT With Digital Temperature Indicator With Temp Bath by Comparison Calibration	1.2 °C	Parmanent/Site
451	Temperature Indicator With Sensor Of Freezers, Environment / Stability Chamber, Liquid Bath, Cold Room (Single Position)	(-) 40 °C to 50 °C	Using PRT With Digital Temperature Indicator by Comparison Calibration	0.60°C	Parmanent/Site
452	Temperature Indicator With Sensor Of Oven, Incubator, Oil Bath, (Non Medical Purpose) (Single Position)	0 °C to 250 °C	Using PRT With Digital Temperature Indicator By Comparison Method	1.6 °C	Parmanent/Site
453	Temperature Indicator With Sensor Of Furnace, Dry Block Furnace & Oven (Single Position)	250 °C to 600 °C	Using S Type Thermocouple With Digital Temperature Indicator by Comparison Calibration:	1.3 °C	Parmanent/Site
454	Temperature Indicator With Sensor Of Furnace, Dry Block Furnace & Oven (Single Position)	600 °C to 800 °C	Using S Type Thermocouple With Digital Temperature Indicator by Comparison Calibration:	2.1 °C	Parmanent/Site
455	Temperature Indicator With Sensor Of Furnace, Dry Block Furnace, Oven (Single Position)	800 °C to 1200 °C	Using S Type Thermocouple With Digital Temperature Indicator by Comparison Calibration	2.2 °C	Parmanent/Site
456	Freezers, Cold Rooms, Baths (Multiposition) .(Non Medical Purpose)	(-)40 °C to 50 °C	Using Multi Point Data Logger With Rtd (Pt-100) Sensors (Minimum Nine) By Comparison Method	2.7 °C	Parmanent/Site
457	Environmental / Stability Chamber (Multiposition) (Non Medical Purpose)	(-)10 °C to 100 °C	Using Multi Point Data Logger With Rtd (Pt-100) Sensors (Minimum Nine) By Comparison Method	2.7 °C	Parmanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
458	Incubator (Multipositions) .(Non Medical Purpose)	0 °C to 50 °C	Using Multi Point Data Logger With Rtd (Pt-100) Sensors (Minimum Nine) By Comparison Method	2.7 °C	Parmanent/Site
459	Oven, Bath (Multipositions) .(Non Medical Purpose)	0 °C to 250 °C	Using Multi Point Data Logger With Rtd (Pt-100) Sensors (Minimum Nine) By Comparison Method	2.7 °C	Parmanent/Site
460	Industrial Furnace, Oven	250 °C to 1200 °C	Using Multi Point Data Logger With 'N' Type Thermocouple (Minimum Nine) By Comparison Method	5.9 °C	Parmanent/Site
Discipline – Thermal, Group: - Specific Heat & Humidity					
461	DIGITAL & ANALOG HYGROMETER, HUMIDITY / TEMPERATURE SENSORS WITH INDICATOR/CONTROLLER/RECORDER / DATA LOGGER , THERMOHYGROMETER @ 50 %RH	10 °C to 50 °C	USING STD. RH/TEMPERATURE SENSOR WITH INDICATOR & TEMPERATURE HUMIDITY CHAMBER	0.30 °C	Parmanent/Site
462	DIGITAL & ANALOG HYGROMETER, HUMIDITY / TEMPERATURE SENSORS WITH INDICATOR/CONTROLLER/RECORDER / DATA LOGGER , THERMOHYGROMETER @ 25°C	20 %RH to 95 %RH @25°C	USING STD. RH/TEMPERATURE SENSOR WITH INDICATOR & TEMPERATURE HUMIDITY CHAMBER	1.9 % RH	Parmanent/Site

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Sr. NO.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
463	HUMIDITY GENERATOR / CHAMBER (Multiposition) @ @ 25°C	20 %RH to 95 %RH @25°C	USING Data Logger Multi Point Calibration Minimum 9 Points by Comparison Method	7.2 % RH	Parmanent/Site
Discipline -Optical					
464	Lux Meter	10 to 100 lux	Using Lux Meter & Light Source	9.3 %	Permanent
465	Lux Meter	>100 to 10000 lux	Using Lux Meter & Light Source	9.3 %	Permanent
Discipline - Fluid Flow Group: Flow Measuring Devices					
466	Water Meter, Flow Meter, Flow Switch, Flow Transmitter, Level	0.6 m^3/h to 1100 m^3/h	Using Digital Ultrasonic Flow Meter, Ultrasonic Thickness Gauge, Digital Stop Watch, Measuring Tape, Digital Thermometer by Comparison Method	7.2% to 1.2%	site
467	Velocity of Anemometer / Pitot Tube	0.4 m/s to 20 m/s	Using Wind Tunnel & Hot Wire Anemometer by Comparison Method	13% to 7.0 %	Permanent

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