



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

SARRC TEST HOUSE

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

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

for its facilities at

HOUSE NO 100, SECTOR 29, FARIDABAD, HARYANA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2076

Issue Date: 28/01/2022

Valid Until: 27/01/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : SARRC TEST HOUSE

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



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Validity

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current	6.5 digit DMM Direct Method	> 200 mA to 1 A	0.23 % to 0.26 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current	6.5 digit DMM Direct Method	1 A to 10 A	0.26 % to 0.3%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current	6.5 digit DMM Direct Method	1 mA to 200 mA	0.17 % to 0.23 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage	6.5 digit DMM Direct Method	10 mV to 100 mV	0.21 % to 0.13 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage	6.5 digit DMM Direct Method	100 mV to 5 V	0.13 % to 0.59 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage	6.5 digit DMM Comparison / Direct Method	230 V to 1000 V	0.79 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage	6.5 digit DMM Comparison / Direct Method	5 V to 230 V	0.59 % to 0.79 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current	MFC 5.5 digit Direct method	1 A to 10 A	0.6 % to 0.32 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current	MFC 5.5 digit Direct method	1 mA to 200 mA	0.5 % to 0.3 %



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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current	MFC 5.5 digit Direct method with current coil	20 A to 1000 A	2.8% % to 2.8 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC current	MFC 5.5 digit Direct method	200 mA to 1 A	0.3 % to 0.6 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage	MFC 5.5 digit Direct method	10 mV to 200 mV	0.45 % to 0.3 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage	MFC 5.5 digit Direct method	2 to 500 V	0.7 % to 0.8 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage	MFC 5.5 digit Direct method	200 mV to 2 V	0.3 % to 0.7 %
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Capacitance	6.5 digit DMM Direct Method	1 nF to 100 nF	0.174 % to 0.1 %



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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Capacitance	6.5 digit DMM Direct Method	1 uF to 1 μF	0.6 % to 0.6 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Capacitance	6.5 digit DMM Direct Method	100 nF to 1 μF	0.10% to 0.6 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	6.5 digit DMM Direct Method	1 A to 10 A	0.19 % to 0.19 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	6.5 digit DMM Direct Method	1 mA to 200 mA	0.08 % to 0.08 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	6.5 digit DMM Direct Method	200 mA to 1 A	0.08 % to 0.19 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance 2w/4 w	6.5 digit DMM Direct Method	1 M ohm to 100 M ohm	0.029 % to 0.94 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance 2w/4w	Using DMM 6.5 Digit	1 ohm to 100 ohm	0.06 % to 0.016 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance 2w/4w	6.5 digit DMM Direct Method	10 k ohm to 1 M ohm	0.013 % to 0.029 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance 2w/4w	6.5 digit DMM Direct Method	10 ohm to 100 ohm	0.048 % to 0.016 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance 2w/4w	6.5 digit DMM Direct Method	100 M ohm to 900 M ohm	0.94 % to 2.5 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance 2w/4w	6.5 digit DMM Direct Method	100 ohm to 10 k ohm	0.016 % to 0.013 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	6.5 digit DMM Comparison / Direct Method	1 mV to 100 mV	0.48 % to 0.041 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	6.5 digit DMM Comparison / Direct Method	1 V to 100 V	0.041%
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	6.5 digit DMM Comparison / Direct Method	100 mV to 1 V	0.042 % to 0.042%
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	6.5 digit DMM Comparison / Direct Method	100 V to 1000 V	0.041 % to 0.055 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	MFC 5.5 digit Direct method	1 A to 10 A	0.4 % to 0.24 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	MFC 5.5 digit Direct method	1 mA to 200 mA	0.4 % to 0.2 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	MFC 5.5 digit Direct method with current coil	20 A to 1000 A	1.9 % to 2.0 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	MFC 5.5 digit Direct method	200 mA to 1 A	0.2 % to 0.4 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box by Direct Method	1 ohm to 10 ohm	0.3 % to 0.14 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2w/4 w	Std. Resistance box-sigma discrete values + Std. Resistance box by direct method	0.01 ohm to 0.01 ohm	4.8 % to 4.8 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2w/4 w	Std. Resistance box-sigma discrete values + Std. Resistance box by direct method	0.01 ohm to 0.1 ohm	4.8 % to 0.4 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2w/4 w	Std. Resistance box-sigma discrete values + Std. Resistance box by direct method	0.1 ohm to 1 ohm	0.4 % to 0.2 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2w/4 w	Std. Resistance box-sigma discrete values + Std. Resistance box by direct method	1 M ohm to 100 M ohm	0.58 % to 1.11 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2w/4 w	Std. Resistance box-sigma discrete values + Std. Resistance box by direct method	10 k ohm to 1 M ohm	0.17 % to 0.58 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2w/4 w	Std. Resistance box-sigma discrete values + Std. Resistance box by direct method	10 ohm to 100 ohm	0.14 % to 0.52 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2w/4 w	Std. Resistance box-sigma discrete values + Std. Resistance box by direct method	100 ohm to 10 k ohm	0.52 % to 0.17 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	MFC 5.5 digit Direct method	1 mV to 200 mV	0.6 % to 0.15 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	MFC 5.5 digit Direct method	2 V to 200 V	0.19%
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	MFC 5.5 digit Direct method	200 mV to 2 V	0.15 % to 0.19 %



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	MFC 5.5 digit Direct method	200 V to 1000 V	0.19 % to 0.14 %
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Universal Calibrator	400 °C to 1800 °C	1.38°C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using (Radix) + ITS-90 Direct Method	50 °C to 760 °C	0.67°C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Universal Calibrator	-190 °C to 1300 °C	0.86°C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Universal Calibrator	50 °C to 1700 °C	1.38°C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Pt-100	Using Universal Calibrator	-199 °C to 600 °C	0.55°C



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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Universal Calibrator	50 °C to 1750 °C	0.78°C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Universal Calibrator	-199 °C to 400 °C	0.76°C
54	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	6.5 digit DMM Direct Method	10 Hz to 100 kHz	0.10 % to 0.07 %
55	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch / Timer	Digital Timer/Comparision	10 s to 60 s	0.8 % to 0.13 %
56	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch / Timer	Digital Timer/Comparision	60 s to 990 min	0.13 % to 0.06 %
57	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	MFC 5.5 digit Direct method	50 Hz to 1 k Hz	0.15 % to 0.076 %



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58	MECHANICAL-ACCELERATION AND SPEED	(Non-Contact type) Tachometer/RPM	Using Laser Tachometer by comparison method	>7500 rpm to 60000 rpm	0.02%
59	MECHANICAL-ACCELERATION AND SPEED	(Non-Contact type) Tachometer/RPM	Using Laser Tachometer by comparison method	50 rpm to 120 rpm	2%
60	MECHANICAL-ACCELERATION AND SPEED	(Non-Contact type)Tachometer/RPM	Using Laser Tachometer by comparison method	>120 rpm to 7500 rpm	0.14%
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle plate - Flatness/parallelism/ Squareness	Using Gauge block, Feeler gauge, Master cylinder by comparison method	0 to 300 mm	9µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre(Coaxiality, Parallelism of Axis of centers)	Using Mandrel/Dial Indicator by Comparison Method	0 to 350 mm	8.0µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector/ Combination Set	Using Angle Gauge by Comparison Method	0 to 180 degree	3.0min



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64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Transmission only) LC-0.001 mm and coarser	Using Dial calibration tester by Comparison Method	0 to 1 mm	2.3µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Angle plate - Squareness	Using Gauge block, Feeler gauge, Master cylinder by comparison method	0 to 300 mm	9µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C.- 0.001 mm	Using Coating Thickness Films by Comparison Method	0 to 1200 µm	2.0µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator stand flatness of base plate	Using Surface Plate, Spirit Level, Dial indicator, Gauge Block and accessories by Comparison Method	100 mm x 100 mm	3µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator stand flatness of base plate	Using plunger dial, comparator stand electronic levelmeter by Comparison Method	300 mm x 300 mm	4µm



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69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Vernier Caliper by comparison method	1 mm to 200 mm	18.5µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting masters	Using ULMM/Gauge block and comparator by Comparison Method	0 to 100 mm	1.5µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C.- 0.01 mm	Using gauge block, Granite Surface plate by Comparison Method	0 to 150 mm	6µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer LC 0.01mm	Using gauge block, Granite Surface plate by Comparison Method	0 to 25 mm	5.9µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer LC 0.01mm	Using gauge block, Granite Surface plate by Comparison Method	0 to 300 mm	7µm



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74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Caliper L.C - 0.01 mm and coarser	Using gauge block, Caliper checker, Granite surface plate by Comparison Method	>300 mm to 600 mm	14µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Caliper L.C - 0.01 mm and coarser	Using gauge block, Caliper checker, Granite surface plate by Comparison Method	up to 300 mm	13µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator Plunger type LC-0.001 mm & coarser	Using Dial calibration tester by Comparison Method	0 to 1 mm	1.4µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial indicator Plunger type LC-0.001 mm & coarser	Using Dial calibration tester by Comparison Method	0 to 25 mm	1.5µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator Plunger type LC-0.01 mm	Using Dial calibration tester by Comparison Method	0 to 50mm	6µm



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79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.- 0.001 mm	Using Gauge Block by Comparison Method	0 to 10 mm	2.4µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.- 0.001 mm & coarser	Using Gauge Block by Comparison Method	0 to 100 mm	7.0µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe with DRO L.C.- 0.1 µm	Using Gauge block by Comparison Method	0 to 25 mm	0.15µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Eye Piece L.C.-0.1 mm	Using Profile Projector & Glass Scale-10 mm, 0.1 mm by Comparison Method	0 to 10 mm	6µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler gauge	Using ULMM by comparison Method	0.02 mm to 10 mm	1µm



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84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge LC 0.01mm	Using gauge block, caliper checker, Granite Surface plate & Puppy dial by Comparison Method	0 to 300 mm	12µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge LC 0.01mm	Using gauge block, caliper checker, Granite Surface plate & Puppy dial by Comparison Method	0 mm to 600 mm	14µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge LC 0.01mm & Coarser	Using gauge block, caliper checker, Granite Surface plate & Puppy dial by Comparison Method	>600 mm to 1000 mm	18µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Master L.C.- 0.001 mm	Using Gauge Block by Comparison Method	5 mm to 310 mm	6.4µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	IIW V1,V2 Blocks (Thickness, Radius)	Using Gauge Blocks , Electronic probe with indicator,profile projector by Comparison Method	up to 300 mm	7.0µm



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89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Angle Gauge	Using Profile Projector by Comparison Method	0° to 180°	15'
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper L.C.- 0.01 mm	Using Gauge Block, Gauge Block accessories by Comparison Method	4 mm to 100 mm	7 μ m
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer LC 0.01mm	Using gauge block, Gauge block accessories & Caliper checker by Comparison Method	>300 mm to 600 mm	14 μ m
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer LC 0.01mm	Using gauge block, Gauge block accessories & Caliper checker by Comparison Method	50 mm to 1000 mm	20 μ m
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer LC 0.01mm	Using gauge block, Gauge block accessories & Caliper checker by Comparison Method	50 mm to 300 mm	9 μ m



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94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Bar	Using ULMM/Gauge Block by Comparison Method	> 200 mm to 300 mm	2.3µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Bar	Using ULMM/Gauge Block by Comparison Method	>100 mm to 200 mm	1.6µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Bar	Using ULMM/Gauge Block by Comparison Method	up to 100 mm	1.2µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever type Dial Gauge: LC 0.002 mm or coarser	Using Dial calibration tester by Comparison Method	0 to 0.2 mm	2.3µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever type Dial Gauge : LC 0.001 mm or coarser	Using Dial calibration tester by Comparison Method	0 to 0.14 mm	2.1µm



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99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever type dial gauge ; LC 0.01mm	Using Dial calibration tester by Comparison Method	0 to 0.8 mm	6µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mandrels Concentricity Roundness	Using Electronic probe with indicator and Fcdmm by Comparison Method	0 to 100 mm	4.8µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/ Pie Tape L.C.- 1 mm	Using scale and tape calibration unit by Comparison Method	0 to 15 m	37 sqrt (L)where L is in mm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/ Pie Tape L.C.- 1 mm	Using scale and tape calibration unit by Comparison Method	0 to 30 m	37 sqrt (L)where L is in mm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/ Pie Tape L.C.- 1 mm	Using Scale and tape calibration unit by Comparison Method	0 to 5 m	37 sqrt (L)where L is in mm



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104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/ Pie Tape L.C.- 1 mm	Using scale and tape calibration unit by Comparison Method	0 to 50 m	37 sqrt (L)where L is in mm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer L.C.- 0.001 mm	Using Gauge Block by Comparison Method	25 mm to 50 mm	1.5µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer L.C.- 0.001 mm	Using Gauge Block by Comparison Method	50 mm to 100 mm	2.2µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer L.C.- 0.001 mm & coarser	Using Gauge Block by Comparison Method	0 to 25 mm	1.2µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer LC 0.01mm	Using Gauge Block & Caliper checker by Comparison Method	> 800 mm to 900 mm	18µm



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109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer LC 0.01mm	Using Gauge block & Caliper checker by Comparison Method	>100 mm to 150 mm	7 μ m
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer LC 0.01mm	Using Gauge Blocks by Comparison Method	>150 mm to 300 mm	9 μ m
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer LC 0.01mm	Using Gauge Block & Caliper checker by Comparison Method	>300 mm to 400 mm	10 μ m
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer LC 0.01mm	Using Gauge Block & Caliper checker by Comparison Method	>400 mm to 500 mm	11 μ m
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer LC 0.01mm	Using Gauge Block & Caliper checker by Comparison Method	>500 mm to 600 mm	14 μ m



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114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer LC 0.01mm	Using Gauge Block & Caliper checker by Comparison Method	>600 mm to 700 mm	15µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer LC 0.01mm	Using Gauge Block & Caliper checker by Comparison Method	>700 mm to 800 mm	17µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer LC 0.01mm	Using Gauge Block & Caliper checker by Comparison Method	>900 mm to 1000 mm	20µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer- LC 0.01 mm	Using Gauge block, caliper checker by Comparison Method	0 to 100 mm	6µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C.- 0.1 mm	Using Slip Gauge by Comparison Method	0 to 100 mm	58.0µm



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119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge (Pitch and Angle)	Using Profile Projector by Comparison Method	0 to 10 mm	2.2 μ m
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge (Pitch and Angle)	Using Profile Projector by Comparison Method	0° to 90°	0.6"
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer L.C.-0.001 mm	Using Gauge Block by Comparison Method	0 to 100 mm	2.3 μ m
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer L.C.-0.01 mm	Using Gauge Block by Comparison Method	0 to 200 mm	7.0 μ m
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ULMM/Gauge block and comparator by Comparison Method	> 200 mm Dia to 300 mm Dia	3 μ m



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124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ULMM/Gauge block and comparator by Comparison Method	>100 mm Dia to 200 mm Dia	2.2 μ m
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ULMM/Gauge block and comparator by Comparison Method	up to 100 mm Dia	1.5 μ m
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug gauge Taper	Using ULMM/Gauge block and comparator by Comparison Method	up to 100 mm Dia	3s
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain ring gauge	Using ULMM, Gauge block by Comparison Method	>100 mm Dia to 200 mm Dia	2.2 μ m
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain ring gauge	Using ULMM, Gauge block by Comparison Method	>200 mm Dia to 300 mm Dia	3.2 μ m



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129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain ring gauge	Using ULMM, Gauge block by Comparison Method	3 mm Dia to 100 mm Dia	1.6 μ m
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain ring gauge-taper	Using ULMM, Gauge block by Comparison Method	0 to 100 mm Dia	3s
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Point/Ball Outside Micrometer L.C.- 0.001 mm or coarser	Using Slip Gauge by Comparison Method	>100 mm to 200 mm	7.0 μ m
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Point/Ball Outside Micrometer I.C.- 0.001 mm or coarser	Using Slip Gauge by Comparison Method	0 to 100 mm	6.2 μ m
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Comparison Method	0.5 mm to 50 mm	2.4 μ m



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134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Reference blocks FBH/SDH	ULMM, VC, DM, SGA, SG,/ASME Sec V, ASTM E 127	>200 mm to 400 mm	10 μ m
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Reference blocks Flat bottom hole/Side Drill Hole	Using ULMM, VC, DM, SGA, SG,/ASME Sec V, ASTM E 127 by Comparison Method	up to 200 mm	5 μ m
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Right Angle/Engineer's Square	Using Surface plate & Master Cylinder/Bevel Protector by Comparison Method	Up to 600 mm	6.0 μ m
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine bar	Using lever type dial gauge, gauge block, angle gauge by Comparison Method	up to 200 mm	4.3 μ m
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge blocks by Comparison Method	>100 mm to 200 mm	0.82 μ m



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139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge blocks by Comparison Method	up to 100 mm	0.58µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit level LC 0.01mm/m & coarser(Type 1,2 & 3)	Using Electronic level by Comparison Method	base up to 200 mm	14µm / m
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Pin/Wires	Using ULMM by Comparison Method	0.1 mm to 20 mm	1.2 µm to 1.5 µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Wire Gauge	Using Slip Gauge/Profile Projector by Comparison Method	Up to 10 mm	3µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale L.C.- 0.5 mm	using scale and tape calibration unit by Comparison Method	0 to 1 m	37 sqrt (L)where L is in m



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144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale L.C.- 0.5 mm	using scale and tape calibration unit by Comparison Method	0 to 2 m	37 sqrt (L)where L is in m
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight edge-Straightness	Using Electronic levelmeter by Comparison Method	up to 4000 mm	1.3 sqrt(L/150)where L & W are in mm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface plate(Granite/Cast Iron)	Using electronic level meter by Comparison Method	up to mm to 6000 mm	0.5 sqrt((L+W)/150) μm Where L is length in mm
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Tester Ra	Using Roughness Specimen by Comparison Method	up to 25 μm	6.5%
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale L.C.- 0.1 mm	Using Profile Projector by Comparison Method	Up to 15 mm	2.5μm



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149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test sieves	Using Profile Projector/Vernier Caliper by Comparison Method	10 mm to 200 mm	13.0µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector/Vernier Caliper by Comparison Method	32 µm to 10 mm	13.0µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foil	Using ULMM by Comparison Method	10 µm to 1200 µm	1.0µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Prisms	Using ULMM by Comparison Method	up to 20 mm	1.5µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauge(Major / Minor/Effective diameter)	Using ULMM/Gauge blocks, FCDMM, Cyl. masters, pin, prisms by Comparison Method	> 200 mm to 300 mm	2.3µm



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154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauge(Major /Minor/ Effective diameter)	Using ULMM/Gauge blocks, FCDMM, Cyl. masters, pin, prisms by Comparison Method	up to 100 mm	1.5µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauge(Major/Minor/E ffective diameter)	Using ULMM/Gauge blocks, FCDMM, Cyl. masters, pin, prisms by Comparison Method	>100 mm to 200 mm	1.6µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge - Taper	Using ULMM,Plain Ring Gauge by Comparison Method	3 mm to 100 mm	2.2µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring gauge(Effective/Min or diameter)	Using ULMM, Plain ring gauge/prisms by Comparison Method	> 100 mm Dia to 200 mm Dia	3µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring gauge(Effective/Min or diameter)	Using ULMM, Plain ring gauge/prisms by Comparison Method	> 200 mm to 300 mm	4µm



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159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring gauge(Effective/Min or diameter)	Using ULMM, Plain ring gauge/prisms by Comparison Method	3 mm to 100 mm	1.3µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block-Flatness, parallelism, Squareness ,Symmetry	Using gauge block accessories, lever type dial, Master mandrel by Comparison Method	up to 200 mm	4.0 µm, 4'
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial/Digital) L.C.-0.01 mm& Coarser	Using Gauge block/Caliper Checker by Comparison Method	>200 mm to 600 mm	14µm
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial/Digital) L.C.-0.01 mm& Coarser	Using Gauge block/Caliper Checker by Comparison Method	>600 mm to 1000 mm	16µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial/Digital) L.C.-0.01 mm& Coarser	Using Gauge block/Caliper Checker by Comparison Method	0 to 200 mm	10µm



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164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge/Rectangular Block	Using ULMM by Comparison Method	Up to 300 mm	2 μ m
165	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial calibration tester LC-0.02 microns/0.001mm & coarser	Using electronic probe. gauge block by Comparison Method	0 to 50 mm	1.2 μ m
166	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating carriage diameter measuring machine	Using mandrels/Gauge blocks, Pins by Comparison Method	0 to 100 mm	1.55mm
167	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Calibrator	Using Gauge Blocks by Comparison Method	4 mm to 100 mm	0.12 μ m
168	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Calibrator	Using Gauge Blocks by Comparison Method	Up to 4 mm	0.082 μ m
169	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Glass Scale	Profile projector	up to 300 mm	5 μ m
170	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Master cylinder - Squareness	Using gauge block and master cylinder	up to 300 mm	5 μ m



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171	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/Microscope Linear Scale L.C.- 0.001 mm Angluar scale-1" Magnification-10X,20X,50X,100X	Using Glass scale,Gauge Block,Angle Gauge,Vernier Caliper,Glass Scale by Comparision Method	0 to 300 mm	2.4 μ m
172	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/Microscope Linear Scale L.C.- 0.001 mm Angluar scale-1" Magnification-10X,20X,50X,100X	Using Glass scale,Gauge Block,Angle Gauge,Vernier Caliper,Glass Scale by Comparision Method	0° to 360°	4'
173	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/Microscope Linear Scale L.C.- 0.001 mm Angular scale-1" Magnification-10X,20X,50X,100X	Using Glass scale,Gauge Block,Angle Gauge,Vernier Caliper,Glass Scale by Comparision Method	10X to 100X	1%
174	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauges/Gauge blocks	Using gauge block calibrator, Gauge block set by Comparision Method	>0.5 mm to 25 mm	0.12 μ m
175	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauges/Gauge blocks	Using gauge block calibrator, Gauge block set by Comparision Method	>25 mm	0.15 μ m



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176	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauges/Gauge blocks	Using gauge block calibrator, Gauge block set by Comparison Method	>50 mm to 100 mm	0.25 μ m
177	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Thickness Gauge Block	Using ULMM/Dial Comparator by Comparison Method	1 mm to 10 mm	10.0 μ m
178	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Ultrasonic Thickness Testing Machine	Using Slip Gauge/Step Gauge Block by Comparison Method	Up to 200 mm	14.0 μ m
179	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C.- 0.1 micron	Using Gauge Block by Comparison Method	>100 mm to 200 mm	1.5 μ m
180	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C.- 0.1 micron	Using Gauge Block by Comparison Method	>200 mm to 300 mm	2.0 μ m
181	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C.- 0.1 micron	Using Gauge Block by Comparison Method	0 to 100 mm	1.1 μ m



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182	MECHANICAL-DUROMETER	Indentation Depth of Shore A/D Hardness Tester	Using Dial Calibration Tester, L.C.- 0.0002 mm /ISO:18898: 2016/ASTM D 2240 by Comparison Method	0 to 100 Shore A/D	0.58Shore A/D
183	MECHANICAL-PRESSURE INDICATING DEVICES	(Hydraulic) Digital/Analogue Pressure Gauges/Transmitter Switches	Using Digital Pressure Gauge & Digital Test Gauge by Comparison Method	>30 bar to 700 bar	0.1% rdg
184	MECHANICAL-PRESSURE INDICATING DEVICES	(Pneumatic)Digital/A analogue Pressure Gauges/Transmitter Switches	Using Digital Pressure Gauge as per DKD-R 6-1 by Comparison Method	0 to 30 bar	0.21% rdg
185	MECHANICAL-PRESSURE INDICATING DEVICES	(Vaccum) Digital/Analogue Vaccum Gauges	Using Digital Pressure Gauge & Digital Test Gauge by Comparison Method	0 to -0.95 bar	1.8% rdg
186	MECHANICAL-TORQUE MEASURING DEVICES	Torque Wrench (Type- I , Class B & C) (Type-II, Class A, B,C & G)	Using Torque Transducer with Indicator IS : 16906:2018 by Comparison Method	0.4 Nm to 20 Nm	1 % rdg to 0.4 % rdg



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187	MECHANICAL-TORQUE MEASURING DEVICES	Torque Wrench (Type- I , Class B & C) (Type-II, Class A, B,C & G)	Using Torque Transducer with Indicator IS : 16906:2018 by Comparison Method	20 Nm to 200 Nm	0.5 % rdg to 0.22 % rdg
188	MECHANICAL-TORQUE MEASURING DEVICES	Torque Wrench (Type- I , Class B & C) (Type-II, Class A, B,C & G)	Using Torque Transducer with Indicator IS : 16906:2018 by Comparison Method	200 Nm to 2000 Nm	0.77% rdg
189	MECHANICAL-VOLUME	Glass Burette	Digital Precision Balance and distilled water of known density having balance L.C. for 1 ml to 50 ml as 0.01 mg and for 1 ml to 2000 ml as per ISO/TR 20461 & 4787	>25 ml to 50 ml	0.005 ml to 0.009 ml
190	MECHANICAL-VOLUME	Glass Burette	Digital Precision Balance and distilled water of known density having balance L.C. for 1 ml to 50 ml as 0.01 mg and for 1 ml to 2000 ml as per ISO/TR 20461 & 4787	1 ml to 25 ml	0.005 ml to 0.009 ml



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191	MECHANICAL-VOLUME	Glass Pipettes	Digital Precision Balance and distilled water of known density having balance L.C. for 1 ml to 50 ml as 0.01 mg and for 1 ml to 2000 ml as per ISO/TR 20461 & 4787	>25 ml to 50 ml	0.005 ml to 0.009 ml
192	MECHANICAL-VOLUME	Glass Pipettes	Digital Precision Balance and distilled water of known density having balance L.C. for 1 ml to 50 ml as 0.01 mg and for 1 ml to 2000 ml as per ISO/TR 20461 & 4787	1 ml to 25 ml	0.005 ml to 0.009 ml
193	MECHANICAL-VOLUME	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker	Digital Precision Balance and distilled water of known density having balance L.C. for 1 ml to 50 ml as 0.01 mg and for 1 ml to 2000 ml as per ISO/TR 20461 & 4787	> 10 ml to 900 ml	0.009 ml to 0.012 ml



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194	MECHANICAL-VOLUME	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker	Digital Precision Balance and distilled water of known density having balance L.C. for 1 ml to 50 ml as 0.01 mg and for 1 ml to 2000 ml as per ISO/TR 20461 & 4787	>900 ml to 19000 ml	0.012 ml to 0.226 ml
195	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class -I , d= 100 mg and coarser	using weights of E1,E2,F1 as per OIML R-76-1 :2006:	up to 100 kg	1.6g
196	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Class I , d= 10 mg & Coarser	using Weights of E1 & E2 as per OIML R-76-1 :2006	up to 5 kg	0.01g
197	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Class I , d=(0.1mg& coarser)	using weights of E1 Class as per OIML R-76-1 :2006	>82 g to 200 g	0.07mg
198	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Class I, d= 1mg & coarser	Using Weights of E1 & E2 as per OIML R-76-1 :2006	up to 1 kg	0.002g
199	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Class I, d=(0.01 mg & coarser)	using Standard weights of E1 Class as per OIML R-76-1 :2006	up to 82 g	0.04mg



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200	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Class II, d= 10 g & Coarser	Using Weights of E1, E2 & F1 as per OIML R-76-1	>60 kg to 150 kg	3.2g
201	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Class II, d= 50 g & Coarser	using weights of E1, E2 and F1 as per OIML R-76-1	>100 kg to 150 kg	14.5g
202	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Class II, d=2g & coarser	Using Weights of E1, E2 & F1 as per OIML R-76-1 :2006	>30 kg to 60 kg	1.306g
203	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d= 100 mg & Coarser , Class II	using E1, E2 and F1 class of Weights as per OIML R-76-1 :2006	>20 kg to 30 kg	0.184g
204	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (50 mg) & coarser Class I	Calibration of Electronic Weighing Balance using Standard weights of E2 Class	>200 g to 20 kg	0.073g



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205	MECHANICAL-WEIGHTS	Weights (Conventional Mass) Class F2 and Coarser	Weights of accuracy class E2 and Digital Balance up to 20 kg readability 0.1 g Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	10 kg	0.055g
206	MECHANICAL-WEIGHTS	Weights (Conventional Mass) Class F2 and Coarser	Weights of accuracy class E2 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	10 mg	0.015mg



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207	MECHANICAL-WEIGHTS	Weights (Conventional Mass) Class F2 and Coarser	Weights of accuracy class E2 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	5 mg	0.014mg
208	MECHANICAL-WEIGHTS	Weights (Conventional Mass) Class F2 and Coarser	Weights of accuracy class E1 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	20 g	0.02mg



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209	MECHANICAL-WEIGHTS	Weights (Conventional Mass) Class M1 and coarser	Weights of accuracy class E2 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	100 mg	0.015mg
210	MECHANICAL-WEIGHTS	Weights (Conventional Mass) Class M1 and coarser	Weights of accuracy class E2 and Digital Balance up to 20 kg readability 0.1 g Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	20 kg	0.056g



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211	MECHANICAL-WEIGHTS	Weights (Conventional Mass) Class M1 and coarser	Weights of accuracy class E2 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	20 mg	0.015mg
212	MECHANICAL-WEIGHTS	Weights (Conventional Mass) Class M1 and coarser	Weights of accuracy class E2 and Digital Balance up to 60000 g readability 2g Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	50 kg	0.913g



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213	MECHANICAL-WEIGHTS	Weights (Conventional Mass) Class M2 and Coarser	Weights of accuracy class E2 and Digital Balance up to 1000 g readability 1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	1 kg	0.026g
214	MECHANICAL-WEIGHTS	Weights (Conventional Mass) F2 & Coarser	Weights of accuracy class E2 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	1 g	0.015mg



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215	MECHANICAL-WEIGHTS	Weights (Conventional Mass) F2 & Coarser	Weights of accuracy class E1 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	10 g	0.01mg
216	MECHANICAL-WEIGHTS	Weights (Conventional Mass) F2 & Coarser	Weights of accuracy class E1 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	100 g	0.07mg



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217	MECHANICAL-WEIGHTS	Weights (Conventional Mass) F2 & Coarser	Weights of accuracy class E2 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	2 g	0.015mg
218	MECHANICAL-WEIGHTS	Weights (Conventional Mass) F2 & Coarser	Weights of accuracy class E2 and Digital Balance up to 5000 g readability 10 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	2 kg	0.038g



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219	MECHANICAL-WEIGHTS	Weights (Conventional Mass) F2 & Coarser	Weights of accuracy class E1 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	200 g	0.07mg
220	MECHANICAL-WEIGHTS	Weights (Conventional Mass) F2 & Coarser	Weights of accuracy class E1 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	200 mg	0.015mg



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221	MECHANICAL-WEIGHTS	Weights (Conventional Mass) F2 & Coarser	Weights of accuracy class E2 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	5 g	0.015mg
222	MECHANICAL-WEIGHTS	Weights (Conventional Mass) F2 & Coarser	Weights of accuracy class E1 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	50 g	0.02mg



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223	MECHANICAL-WEIGHTS	Weights (Conventional Mass) F2 & Coarser	Weights of accuracy class E2 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	50 mg	0.015mg
224	MECHANICAL-WEIGHTS	Weights (Conventional Mass) F2 & Coarser	Weights of accuracy class E2 and Digital Balance up to 1000 g readability 1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	500 g	0.001g



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225	MECHANICAL-WEIGHTS	Weights (Conventional Mass) F2 & Coarser	Weights of accuracy class E1 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	500 mg	0.015mg
226	MECHANICAL-WEIGHTS	Weights (Conventional Mass) F2 and Coarser	Weights of accuracy class E1 and Digital Balance up to 80/200 g readability 0.01/0.1 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	1 mg	0.013mg



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227	MECHANICAL-WEIGHTS	Weights (Conventional Mass) M2 Class and Coarser	Weights of accuracy class E2 and Digital Balance up to 5000 g readability 10 mg Substitution Method & ABBA Weighing Cycle Procedure. Calibration of Weights of Class F1 Accuracy and Coarser based on OIML R 111	5 kg	0.038g
228	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor Of Humidity Chamber at 25 Degree Celsius	Digital Hygrometer Single Position calibration	15 %rh to 90 %rh	1.57%rh
229	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicators with Inbuild Or External Sensor, Thermo Hygrometers at 25 Degree Celsius.	Digital Hygrometer , Humidity Chamber Comparison Method	15 %rh to 90 %rh	1.53%rh @ 25 °C
230	THERMAL-TEMPERATURE	INFRARED THERMOMETER	BLACK BODY SOURCE WITH RTD BY COMPARISON METHOD	0°C to 50 °C	2.6°C



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231	THERMAL-TEMPERATURE	Liquid In Glass Thermometers/Temperature Gauges	Using RTD-4 wire and DMM-6.5 digit, low temperature bath/oil bath Comparison Method	-30 °C to 250 °C	0.22°C
232	THERMAL-TEMPERATURE	RTD, Thermocouple with or without Temperature Indicator/Data Logger/Recorder, Digital Thermometer	Using RTD-4 wire and DMM-6.5 digit (upto 250 deg C), low temperature bath/oil bath & thermocouple S type and DMM-6.5, Dry Block Furnace (from 250 deg C to 1200 deg C) Comparison Method	250 °C to 500 °C	1.83°C
233	THERMAL-TEMPERATURE	RTD, Thermocouple with or without Temperature Indicator/Data Logger/Recorder, Digital Thermometer	Using RTD-4 wire and DMM-6.5 digit (upto 250 deg C), low temperature bath/oil bath & thermocouple S type and DMM-6.5, Dry Block Furnace (from 250 deg C to 1200 deg C) Comparison Method	-30 °C to 50 °C	0.16°C



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234	THERMAL-TEMPERATURE	RTD,Thermocouple with or without Temperature Indicator/Data Logger/Recorder, Digital Thermometer	Using RTD-4 wire and DMM-6.5 digit (upto 250 deg C),low temperature bath/oil bath & thermocouple S type and DMM-6.5, Dry Block Furnace (from 250 deg C to 1200 deg C) Comparison Method	50 °C to 250 °C	0.19°C
235	THERMAL-TEMPERATURE	RTD,Thermocouple with or without Temperature Indicator/Data Logger/Recorder, Digital Thermometer	Using RTD-4 wire and DMM-6.5 digit (upto 250 deg C),low temperature bath/oil bath & thermocouple S type and DMM-6.5, Dry Block Furnace (from 250 deg C to 1200 deg C) Comparison Method	500 °C to 1000 °C	1.85°C
236	THERMAL-TEMPERATURE	Temperature Indicator with Sensor Of Dry Block Furnace	Using Thermocouple S type and DMM-6.5 (from 250 deg C to 1200 deg C) Single Position Method	1000 °C to 1200 °C	2.24°C



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237	THERMAL-TEMPERATURE	Temperature Indicator with Sensor Of Dry Block Furnace	Using RTD-4 wire and DMM-6.5 digit (upto 250 deg C) & thermocouple S type and DMM-6.5 (from 250 deg C to 1200 deg C) Single Position Method	250 °C to 700 °C	1.44°C
238	THERMAL-TEMPERATURE	Temperature Indicator with Sensor Of Dry Block Furnace	Using Thermocouple S type and DMM-6.5 (from 250 deg C to 1200 deg C) Single Position Method	700 °C to 1000 °C	2.15°C
239	THERMAL-TEMPERATURE	Temperature Indicator with Sensor Of Liquid Bath/Temperature Indicator with Sensor	Using RTD-4 wire and DMM-6.5 digit (upto 250 deg C) & thermocouple S type and DMM-6.5 (from 250 deg C to 1200 deg C) Single Position Method	-30 °C to 50 °C	0.28°C
240	THERMAL-TEMPERATURE	Temperature Indicator with Sensor Of Liquid Bath/Temperature Indicator with Sensor	Using RTD-4 wire and DMM-6.5 digit (upto 250 deg C) & thermocouple S type and DMM-6.5 (from 250 deg C to 1200 deg C) Single Position Method	50 °C to 250 °C	0.30°C



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241	THERMAL-TEMPERATURE	Thermocouple with or without Temperature Indicator/Data Logger/Recorder, Digital Thermometer	Using thermocouple S type and DMM-6.5, Dry Block Furnace (from 250 deg C to 1200 deg C) Comparison Method	1000 °C to 1200 °C	1.96°C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current	MFC 5.5 digit Direct method	1 A to 10 A	0.6 % to 0.32 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current	MFC 5.5 digit Direct method	1 mA to 200 mA	0.5 % to 0.3 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current	MFC 5.5 digit Direct method with current coil	20 A to 1000 A	2.8% % to 2.8 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current	MFC 5.5 digit Direct method	200 mA to 1 A	0.3 % to 0.6 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage	MFC 5.5 digit Direct method	10 mV to 200 mV	0.45 % to 0.3 %



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6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage	MFC 5.5 digit Direct method	2 to 500 V	0.7 % to 0.8 %
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage	MFC 5.5 digit Direct method	200 mV to 2 V	0.3 % to 0.7 %
8	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance 2w/4 w	Using DMM 6.5 Digit	1 ohm to 100 ohm	0.06 % to 0.016 %
9	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	MFC 5.5 digit Direct method	1 A to 10 A	0.4 % to 0.24 %
10	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	MFC 5.5 digit Direct method	1 mA to 200 mA	0.4 % to 0.2 %
11	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	MFC 5.5 digit Direct method with current coil	20 A to 1000 A	1.9 % to 2.0 %



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12	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	MFC 5.5 digit Direct method	200 mA to 1 A	0.2 % to 0.4 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2w/4 w	Std. Resistance box-sigma discrete values + Std. Resistance box by direct method	0.01 ohm to 0.01 ohm	4.8 % to 4.8 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2w/4 w	Std. Resistance box-sigma discrete values + Std. Resistance box by direct method	0.01 ohm to 0.1 ohm	4.8 % to 0.4 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2w/4 w	Std. Resistance box-sigma discrete values + Std. Resistance box by direct method	0.1 ohm to 1 ohm	0.4 % to 0.2 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2w/4 w	Std. Resistance box-sigma discrete values + Std. Resistance box by direct method	1 M ohm to 100 M ohm	0.58 % to 1.11 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2w/4 w	Std. Resistance box-sigma discrete values + Std. Resistance box by direct method	10 k ohm to 1 M ohm	0.17 % to 0.58 %



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18	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2w/4w	Std. Resistance box-sigma discrete values + Std. Resistance box by direct method	10 ohm to 100 ohm	0.14 % to 0.52 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2w/4w	Std. Resistance box-sigma discrete values + Std. Resistance box by direct method	100 ohm to 10 k ohm	0.52 % to 0.17 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	MFC 5.5 digit Direct method	1 mV to 200 mV	0.6 % to 0.15 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	MFC 5.5 digit Direct method	2 V to 200 V	0.19%
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	MFC 5.5 digit Direct method	200 mV to 2 V	0.15 % to 0.19 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	MFC 5.5 digit Direct method	200 V to 1000 V	0.19 % to 0.14 %



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24	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Universal Calibrator	400 °C to 1800 °C	1.38°C
25	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using (Radix) + ITS-90 Direct Method	50 °C to 760 °C	0.67°C
26	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Universal Calibrator	-190 °C to 1300 °C	0.86°C
27	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Universal Calibrator	50 °C to 1700 °C	1.38°C
28	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Pt-100	Using Universal Calibrator	-199 °C to 600 °C	0.55°C
29	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Universal Calibrator	50 °C to 1750 °C	0.78°C



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30	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Universal Calibrator	-199 °C to 400 °C	0.76°C
31	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	MFC 5.5 digit Direct method	50 Hz to 1 k Hz	0.15 % to 0.076 %
32	MECHANICAL-ACCELERATION AND SPEED	(Non-Contact type) Tachometer/RPM	Using Laser Tachometer by comparison method	>7500 rpm to 60000 rpm	0.02%
33	MECHANICAL-ACCELERATION AND SPEED	(Non-Contact type) Tachometer/RPM	Using Laser Tachometer by comparison method	50 rpm to 120 rpm	2%
34	MECHANICAL-ACCELERATION AND SPEED	(Non-Contact type)Tachometer/RPM	Using Laser Tachometer by comparison method	>120 rpm to 7500 rpm	0.14%
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle plate - Flatness/parallelism/ Squareness	Using Gauge block, Feeler gauge, Master cylinder by comparison method	0 to 300 mm	9µm



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36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre(Coaxiality, Parallelism of Axis of centers)	Using Mandrel/Dial Indicator by Comparison Method	0 to 350 mm	8.0µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Angle plate - Squareness	Using Gauge block, Feeler gauge, Master cylinder by comparison method	0 to 300 mm	9µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator stand flatness of base plate	Using Surface Plate, Spirit Level, Dial indicator, Gauge Block and accessories by Comparison Method	100 mm x 100 mm	3µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator stand flatness of base plate	Using plunger dial, comparator stand electronic levelmeter by Comparison Method	300 mm x 300 mm	4µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge LC 0.01mm	Using gauge block, caliper checker, Granite Surface plate & Puppy dial by Comparison Method	0 to 300 mm	12µm



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41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge LC 0.01mm	Using gauge block, caliper checker, Granite Surface plate & Puppy dial by Comparison Method	0 mm to 600 mm	14µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge LC 0.01mm & Coarser	Using gauge block, caliper checker, Granite Surface plate & Puppy dial by Comparison Method	>600 mm to 1000 mm	18µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight edge-Straightness	Using Electronic levelmeter by Comparison Method	up to 4000 mm	1.3 sqrt(L/150)where L & W are in mm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface plate(Granite/Cast Iron)	Using electronic level meter by Comparison Method	up to mm to 6000 mm	0.5 sqrt((L+W)/150) µm Where L is length in mm
45	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial calibration tester LC-0.02 microns/0.001mm & coarser	Using electronic probe. gauge block by Comparison Method	0 to 50 mm	1.2µm



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46	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating carriage diameter measuring machine	Using mandrels/Gauge blocks, Pins by Comparison Method	0 to 100 mm	1.55mm
47	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Calibrator	Using Gauge Blocks by Comparison Method	4 mm to 100 mm	0.12µm
48	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Calibrator	Using Gauge Blocks by Comparison Method	Up to 4 mm	0.082µm
49	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/Microscope Linear Scale L.C.- 0.001 mm Angluar scale-1" Magnification-10X,20X,50X,100X	Using Glass scale,Gauge Block,Angle Gauge,Vernier Caliper,Glass Scale by Comparison Method	0 to 300 mm	2.4µm
50	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/Microscope Linear Scale L.C.- 0.001 mm Angluar scale-1" Magnification-10X,20X,50X,100X	Using Glass scale,Gauge Block,Angle Gauge,Vernier Caliper,Glass Scale by Comparison Method	0° to 360°	4'



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51	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/Microscope Linear Scale L.C.- 0.001 mm Angular scale-1" Magnification-10X,20X,50X,100X	Using Glass scale,Gauge Block,Angle Gauge,Vernier Caliper,Glass Scale by Comparision Method	10X to 100X	1%
52	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C.- 0.1 micron	Using Gauge Block by Comparision Method	>100 mm to 200 mm	1.5µm
53	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C.- 0.1 micron	Using Gauge Block by Comparision Method	>200 mm to 300 mm	2.0µm
54	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C.- 0.1 micron	Using Gauge Block by Comparision Method	0 to 100 mm	1.1µm
55	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Reference Hardness Block as per IS 1586-2-2012 by Comparision Method	0 to 100 HRBW	0.6HRBW
56	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Reference Hardness Block as per IS 1586-2-2012 by Comparision Method	0 to 100 HRC	0.6HRC



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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
57	MECHANICAL-PRESSURE INDICATING DEVICES	(Hydraulic) Digital/Analogue Pressure Gauges/Transmitter Switches	Using Digital Pressure Gauge & Digital Test Gauge by Comparison Method	>30 bar to 700 bar	0.1% rdg
58	MECHANICAL-PRESSURE INDICATING DEVICES	(Pneumatic)Digital/Analogue Pressure Gauges/Transmitter Switches	Using Digital Pressure Gauge as per DKD-R 6-1 by Comparison Method	0 to 30 bar	0.21% rdg
59	MECHANICAL-PRESSURE INDICATING DEVICES	(Vaccum) Digital/Analogue Vaccum Gauges	Using Digital Pressure Gauge & Digital Test Gauge by Comparison Method	0 to -0.95 bar	1.8% rdg
60	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class -I , d= 100 mg and coarser	using weights of E1,E2,F1 as per OIML R-76-1 :2006:	up to 100 kg	1.6g
61	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Class I , d= 10 mg & Coarser	using Weights of E1 & E2 as per OIML R-76-1 :2006	up to 5 kg	0.01g
62	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Class I , d=(0.1mg& coarser)	using weights of E1 Class as per OIML R-76-1 :2006	>82 g to 200 g	0.07mg
63	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Class I, d= 1mg & coarser	Using Weights of E1 & E2 as per OIML R-76-1 :2006	up to 1 kg	0.002g



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64	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Class I, d=(0.01 mg & coarser)	using Standard weights of E1 Class as per OIML R-76-1 :2006	up to 82 g	0.04mg
65	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Class II, d= 10 g & Coarser	Using Weights of E1, E2 & F1 as per OIML R-76-1	>60 kg to 150 kg	3.2g
66	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Class II, d= 50 g & Coarser	using weights of E1, E2 and F1 as per OIML R-76-1	>100 kg to 150 kg	14.5g
67	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Class II, d=2g & coarser	Using Weights of E1, E2 & F1 as per OIML R-76-1 :2006	>30 kg to 60 kg	1.306g
68	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d= 100 mg & Coarser , Class II	using E1, E2 and F1 class of Weights as per OIML R-76-1 :2006	>20 kg to 30 kg	0.184g
69	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (50 mg) & coarser Class I	Calibration of Electronic Weighing Balance using Standard weights of E2 Class	>200 g to 20 kg	0.073g
70	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor Of Humidity Chamber at 25 Degree Celsius	Digital Hygrometer Single Position calibration	15 %rh to 90 %rh	1.57%rh



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71	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicators with Inbuild Or External Sensor, Thermo Hygometers at 25 Degree Celsius.	Digital Hygrometer , Humidity Chamber Comparison Method	15 %rh to 90 %rh	1.53%rh @ 25 °C
72	THERMAL-TEMPERATURE	Liquid In Glass Thermometers/Temp erature Gauges	Using RTD-4 wire and DMM-6.5 digit,low temperature bath/oil bath Comparison Method	-30 °C to 250 °C	0.22°C
73	THERMAL-TEMPERATURE	RTD,Thermocouple with or without Temperature Indicator/Data Logger/Recorder, Digital Thermometer	Using RTD-4 wire and DMM-6.5 digit (upto 250 deg C),low temperature bath/oil bath & thermocouple S type and DMM-6.5, Dry Block Furnace (from 250 deg C to 1200 deg C) Comparison Method	250 °C to 500 °C	1.83°C



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74	THERMAL-TEMPERATURE	RTD,Thermocouple with or without Temperature Indicator/Data Logger/Recorder, Digital Thermometer	Using RTD-4 wire and DMM-6.5 digit (upto 250 deg C),low temperature bath/oil bath & thermocouple S type and DMM-6.5, Dry Block Furnace (from 250 deg C to 1200 deg C) Comparison Method	-30 °C to 50 °C	0.16°C
75	THERMAL-TEMPERATURE	RTD,Thermocouple with or without Temperature Indicator/Data Logger/Recorder, Digital Thermometer	Using RTD-4 wire and DMM-6.5 digit (upto 250 deg C),low temperature bath/oil bath & thermocouple S type and DMM-6.5, Dry Block Furnace (from 250 deg C to 1200 deg C) Comparison Method	50 °C to 250 °C	0.19°C



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76	THERMAL-TEMPERATURE	RTD,Thermocouple with or without Temperature Indicator/Data Logger/Recorder, Digital Thermometer	Using RTD-4 wire and DMM-6.5 digit (upto 250 deg C),low temperature bath/oil bath & thermocouple S type and DMM-6.5, Dry Block Furnace (from 250 deg C to 1200 deg C) Comparison Method	500 °C to 1000 °C	1.85°C
77	THERMAL-TEMPERATURE	Temperature Indicator with Sensor Of Dry Block Furnace	Using Thermocouple S type and DMM-6.5 (from 250 deg C to 1200 deg C) Single Position Method	1000 °C to 1200 °C	2.24°C
78	THERMAL-TEMPERATURE	Temperature Indicator with Sensor Of Dry Block Furnace	Using RTD-4 wire and DMM-6.5 digit (upto 250 deg C) & thermocouple S type and DMM-6.5 (from 250 deg C to 1200 deg C) Single Position Method	250 °C to 700 °C	1.44°C
79	THERMAL-TEMPERATURE	Temperature Indicator with Sensor Of Dry Block Furnace	Using Thermocouple S type and DMM-6.5 (from 250 deg C to 1200 deg C) Single Position Method	700 °C to 1000 °C	2.15°C



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80	THERMAL-TEMPERATURE	Temperature Indicator with Sensor Of Liquid Bath/Temperature Indicator with Sensor	Using RTD-4 wire and DMM-6.5 digit (upto 250 deg C) & thermocouple S type and DMM-6.5 (from 250 deg C to 1200 deg C) Single Position Method	-30 °C to 50 °C	0.28°C
81	THERMAL-TEMPERATURE	Temperature Indicator with Sensor Of Liquid Bath/Temperature Indicator with Sensor	Using RTD-4 wire and DMM-6.5 digit (upto 250 deg C) & thermocouple S type and DMM-6.5 (from 250 deg C to 1200 deg C) Single Position Method	50 °C to 250 °C	0.30°C
82	THERMAL-TEMPERATURE	Thermocouple with or without Temperature Indicator/Data Logger/Recorder, Digital Thermometer	Using thermocouple S type and DMM-6.5, Dry Block Furnace (from 250 deg C to 1200 deg C) Comparison Method	1000 °C to 1200 °C	1.96°C

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