National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	SHREE RADHEY TECHNOLOGY, S-19 & 20 RIICO INDUSTRIAL AREA, BINDAYAKA, JAIPUR, RAJASTHAN, INDIA		
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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	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 Active Power / Energy (230 V to 300 V, 2 A to 20 A, At 50 Hz , ± 0.5 to 1 PF, @50 Hz)	Using Digital Energy logger (Fluke 1730A) by Direct Method	0.23 kW to 36 kW	2.8%
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @50 Hz	Using Fluke 8846A, 6½ DMM & Energy Logger (1730A) By Direct Method	10 A to 900 A	0.3 % to 1.5 %
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @50 Hz	Using Fluke 8846A, 6½ DMM By Direct Method	100 µA to 10 A	0.6 % to 0.3 %
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage @50 Hz	Using Fluke 8846A, 6½ DMM By Direct Method	1 mV to 1000 mV	0.7 % to 0.2 %

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5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage @50 Hz	Using Fluke 8846A, 6½ DMM By Direct Method	1 V to 1000 V	0.2%
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Power Factor	Using Digital Energy logger (Fluke 1730A) by Direct Method	(-)0.2 UPF to (+)0.2 UPF	0.001 PF to 0.001 PF
7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Active Power (40V-600V, 0.1A-20A, 50 HZ , UPF)	Using 5 1/2 Digit Multi Function Calibrator (Fluke 5080A) By Direct Method	0.004 kW to 12 kW	1.8%
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current	Using 5 1/2 Digit Multi Function Calibrator (Fluke 5080A) By Direct Method	0.03 mA to 100 mA	3.2 % to 0.50 %
9	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current	Using 5 1/2 Digit Multi Function Calibrator (Fluke 5080A) By Direct Method	1 A to 20 A	0.9 % to 0.8 %

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10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current	Using 5 1/2 Digit Multi Function Calibrator (Fluke 5080A) By Direct Method	100 mA to 1 A	0.90%
11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current	Using 5½ Digit Digital M.F. calibrator (Fluke 5080A) & Current Coil By Direct Method	20 A to 1000 A	0.5%
12	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage @50 Hz	Using 5 1/2 Digit Multi Function Calibrator (Fluke 5080A) By Direct Method	1 V to 1000 V	0.6 % to 0.3 %
13	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage @50 Hz	Using 5 1/2 Digit Multi Function Calibrator (Fluke 5080A) By Direct Method	10 mV to 1 V	1.05 % to 0.6 %
14	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Power Factor @(240 V, 5A)	Using 5 1/2 Digit Multi Function Calibrator (Fluke 5080A) By Direct Method	(-)0.2 UPF to (+)0.2 UPF	0.007PF

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15	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Turn Ration Meter	Using standard Turn Ration Calibrator by Direct Method	11 Turn Ratio to 1900 Turn Ratio	0.8%
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Fluke 8846A, 6½ DMM By Direct Method	10 µA to 10 A	0.4 % to 0.2 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Fluke 8846A, 6½ DMM By Direct Method	1 mV to 1 V	0.42 % to 0.2 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Fluke 8846A, 6½ DMM By Direct Method	1 V to 1000 V	0.2 % to 0.1 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Digital Micro Ohm meter, Fluke 8864A,61/2 DMM By Direct Method	1 kohm to 10 kohm	0.3 % to 0.1 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Digital Micro Ohm meter, Fluke 8864A,61/2 DMM By Direct Method	1 mohm to 10 ohm	1.02 % to 0.08 %

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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Fluke 8864A,61/2 DMM By Direct Method	10 kohm to 100 kohm	0.1%
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Digital Micro Ohm meter/ Fluke 8864A,61/2 DMM By Direct Method	10 ohm to 100 ohm	0.08 % to 0.3 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Fluke 8864A,61/2 DMM By Direct Method	100 kohm to 1 Gohm	0.1 % to 2.5%
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Digital Micro Ohm meter, Fluke 8864A,61/2 DMM By Direct Method	100 ohm to 1 kohm	0.3 % to 0.5 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 1/2 Digit Multi Function Calibrator (Fluke 5080A) By Direct Method	10 µA to 20 mA	1.53 % to 0.4 %

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26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 1/2 Digit Multi Function Calibrator (Fluke 5080A) & Current Coil By Direct Method	20 A to 1000 A	0.7 % to 0.2%
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 1/2 Digit Multi Function Calibrator (Fluke 5080A) By Direct Method	20 mA to 20 A	0.40 % to 0.7 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Digital calibrator (Fluke 5080A) by Direct Method	1 mV to 1 V	1.4 % to 0.11 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 1/2 Digit Multi Function Calibrator (Fluke 5080A) By Direct Method	1 V to 1000 V	0.11 % to 0.07 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using 5 1/2 Digit Multi Function Calibrator (Fluke 5080A) By Direct Method	190 kohm to 190 Mohm	0.05 % to 1.15 %

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31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	1 kohm	0.23%
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Box by Direct Method	1 Mohm to 210 Gohm	0.6 % to 4.5 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	10 kohm	0.23%
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	10 mohm	0.28%
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	1 mohm	0.24%
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	1 ohm	0.24%

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37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using 5 1/2 Digit Multi Function Calibrator (Fluke 5080A) By Direct Method	1 ohm to 190 kohm	1.2 % to 0.05 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	10 ohm	0.23%
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Digital Calibrator (Masibus) by Direct Method	10 ohm to 2 kohm	7.1 % to 0.2 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	100 mohm	0.23%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	100 ohm	0.23%
42	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance (at 1 kHz)	Using Digital LCR Meter By Direct Method	1 nF to 1 µF	4.79%

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43	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Inductance 1 kHz	Using Digital LCR Meter By Direct Method	1 mH to 1 H	3.2%
44	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Capacitance(at 1 kHz)	Using Standard Capacitance Box By Direct Method	1 nF to 3 µF	1.7%
45	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Inductance(at 1 kHz)	Using Standard Inductance Box By Direct Method	1 mH to 1 H	1.6%
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD Simulator, Calibrator	Using 6.5 Digit DMM (Fluke 8846A)	-200 °C to 790 °C	0.4°C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation -B- Type Thermocouple	Using 6.5Digit DMM (8846A Fluke)	500 °C to 1700 °C	2.7 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation -E- Type Thermocouple	Using 6.5 Digit DMM (8846A, Fluke)	-50 °C to 900 °C	0.8 °C

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49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation -J- Type Thermocouple	Using 6.5 Digit DMM (Fluke 8846A)	50 °C to 800 °C	0.5°C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation -K- Type Thermocouple	Using 6.5 Digit DMM(FLUKE 8846A)	50 °C to 1200 °C	0.8°C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation -N- Type Thermocouple	Using 6.5 Digit DMM By Simulation Method	-100 ºC to 1300 ºC	0.8ºC
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation -R- Type Thermocouple	Using 6.5Digit DMM (Fluke 8846A)	100 °C to 1600 °C	2.7 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation -S- Type Thermocouple	Using 6.5 Digit DMM (Fluke 8846A)	200 °C to 1600 °C	2.7°C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation -T- Type Thermocouple	Using 6.5 Digit DMM (8846A, Fluke)	-100 °C to 400 °C	0.8 °C

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55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) -RTD	Using Digital calibrator (Masibus), & 6.5 Digit DMM (Fluke 8846A) by Simulation Method	-200 ºC to 790 ºC	0.4ºC
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) B-Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	500 ºC to 1700 ºC	2.7ºC
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) E-Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	(-)50 ºC to 900 ºC	0.8ºC
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) J-Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	50 ºC to 800 ºC	0.5ºC
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) K-Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	50 ºC to 1200 ºC	0.8ºC

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60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) N- Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	-100 ºC to 1300 ºC	0.8ºC
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) R-Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	100ºC to 1600ºC	3.4ºC
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) S-Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	200 ºC to 1600 ºC	3.4ºC
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) T-Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	(-)100 ºC to 900 ºC	2.5ºC
64	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	6.5 Digit DMM [Fluke 8846A] By Direct Method	50 Hz to 1000 Hz	0.6 % to 0.3 %

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65	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer (Stop Watch/Timer/Hour Meter)	Using Digital Timer and Stop Watch By Comparison Method	1 s to 12 h	2 % to 0.5 %
66	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5½ Digit Digital calibrator By Direct Metod	45 Hz to 1000 Hz	0.6 % to 0.3 %
67	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Ultra Sonic Plus Velosity Meter	Ultrasonic pulse echo, Direct method	30 µs to 100 µs	0.3 % to 0.1 %
68	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, Vibrating Machine, RPM Measurement L.C :0.1 rpm	Using Tachometer with Source By Comparison Method	10 RPM to 1000 RPM	1.39%
69	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, Vibrating Machine, RPM Measurement L.C :0.1 rpm	Using Tachometer with Source By Comparison Method	1000 RPM to 30000 RPM	0.25%
70	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Tachometer with Source By Comparison Method	10 RPM to 1000 RPM	1.39 %
71	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Tachometer with Source By Comparison Method	1000 RPM to 30000 RPM	0.25%

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72	MECHANICAL-ACOUSTICS	Sound Level Meter @1 kHz L.C.: 0.1 dB	Using Sound Level Generator By Direct Method	114 dB	1.0dB
73	MECHANICAL-ACOUSTICS	Sound Level Meter @1 kHz L.C.: 0.1 dB	Using Sound Level Generator By Direct Method	94 dB	1.0dB
74	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer	Using Reference Standard Hydrometer by Comparison Method based on IS 3104	0.600 g/ml to 1.800 g/ml	0.003g/ml
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Mould	Using Bore Gauge & Height gauge by comparison method	50 mm to 300 mm	40µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Aggregate Impact Machine (Dimension measurement of parts)	Using digital Vernier caliper, Surface Plate ,Height gauge by Comparison method	6 mm to 250 mm	29µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector L.C. : 5'	Using Angle Gauge By Comparison Method	0 ° to 180 °	3.3'

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78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (Digital/Analog) L.C. : 0.1µm	Using Standard Foils By Comparison Method	0 to 1 mm	1.8µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge L. C. = 0.01 mm	Using slip Gauge Set by Comparison Method	0 to 300 mm	11.3µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digital Gauge L.C = 0.001mm	Usig Slip Gauge Set & Comparator Stand By Comparison Method	0 to 25 mm	2.1µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digital Gauge L.C = 0.01mm	Usig Slip Gauge Set & Comparator Stand By Comparison Method	0 to 100 mm	17µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Index	Using Digital Vernier Caliper by Comparison Method	0 to 100 mm	20µm

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83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Comparison Method	up to 1 mm	0.4 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Index	Using Digital Vernier Caliper by Comparison Method	0 to 100 mm	20µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C = 0.01mm	Using Caliper Checker by Comparison Method	0 to 600 mm	8.8µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape L. C. = 0.5 mm	Using Scale and Tape Measuring Machine	0 to 50000 mm	289 SQRT L µm where L is in metres
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer L. C. = 0.001 mm	Using slip Gauge Set by Comparison Method	0 to 25 mm	3.0µm

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88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer L. C. = 0.01 mm	Using slip Gauge Set by Comparison Method	0 to 200 mm	8.0µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mould	Using Digital Vernier caliper by Comparison method	50X50X50 mm to 150X150X150 mm	47µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PI-Tape L. C. = 0.5 mm /1 mm	Using Scale and Tape Measuring Machine	0 to 50000 mm	289 SQRT L µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pin gauge	Using Digital micrometer by comparison method	0.1 mm to 25 mm	0.6µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector	Using Glass Scale by comparison method	0 to 200 mm	1.5µm

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93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector	Using Angle Gauge by comparison method	0° to 360°	30s
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector	Using Digital Vernier caliper By Comparison method	10 X to 100 X	1.7%
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector By Comparison Method	0 to 25 mm	7.0µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale L. C. = 0.5 mm / 1 mm	Using Scale and Tape Measuring Machine By Comparison Method	0 to 1000 mm	289µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector/Dig. Vernier Caliper By Comparison Method	10 mm to 150 mm	14.5µm

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98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector/Dig. Vernier Caliper By Comparison Method	32 µm to 10 mm	5.4µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultra Sonic Thickness Gauge L. C. = 0.1 mm	Using slip Gauge Set by Comparison Method	0 to 100 mm	106µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L. C. = 0.01 mm	Using Caliper Checker / Slip Gauge Set by Comparison Method	0 to 300 mm	12.5µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L. C. = 0.02 mm	Using Caliper Checker / Slip Gauge Set by Comparison Method	0 to 600 mm	13.0µm
102	MECHANICAL-DUROMETER	Shore A Rubber Hardness Tester	Using Digital Weighing Balance as per ASTM D 2240-2015	0 Shore A to 100 Shore A	1Shore A

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103	MECHANICAL-DUROMETER	Shore D Rubber Hardness Tester	Using Digital Weighing Balance as per ASTM D 2240-2015	0 Shore D to 100 Shore D	1Shore D
104	MECHANICAL-HARDNESS TESTING MACHINES	Rebound Hammer	Using Standrad Anvil by comparison (Ref ASTM C-805-2)	10 Rebound to 100 Rebound	15%
105	MECHANICAL-HARDNESS TESTING MACHINES	Standard Anvil	Using Leeb Hardness Tester by comparison method (Ref. ASTM C-805-2)	64 HRC to 68 HRC	1.9HRC
106	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure : Pressure Gauge / Pressure Transmeter (Digital / Analog)	Using Digital Pressure Gauge & Camparator (Hydraulic Oil Pump) by Comparison method as per DKD R-6-1	0 to 700 bar	0.7% of rdg
107	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure : Pressure Gauge / Pressure Transmeter (Digital / Analog)	Using Digital Pressure Gauge & Camparator (Pneumatic Type) by Comparison method as per DKD R-6-1	0 to 10 bar	0.5% of rdg
108	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Digital / Analog)	Using Digital Gauge Camparator (Pneumatic Type) by Comparison method as per DKD R-6-1	(-) 0.9 bar to 0	0.51% of rdg

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109	MECHANICAL-VOLUME	Glassware (Pipettes, burettes, Volumetric Flask, Beaker, Measuring Cylinder)	Using Weighing Balance of 220 g Capacity and Readability up to 82 g, 0.01 mg and above ,0.1 mg & Distilled Water Gravimetric Method Based on ISO 4787	>10 ml to 100 ml	7.7µl
110	MECHANICAL-VOLUME	Glassware (Pipettes, burettes, Volumetric Flask, Beaker, Measuring Cylinder)	Using Weighing Balance of 3000 g Capacity and 1 mg Readability & Distilled Water Gravimetric Method Based on ISO 4787	>100 ml to 2000 ml	1ml
111	MECHANICAL-VOLUME	Glassware (Pipettes, burettes, Volumetric Flask, Beaker, Measuring Cylinder)	Using Weighing Balance of 220 g Capacity and Readability up to 82 g, 0.01 mg and above ,0.1 mg & Distilled Water Gravimetric Method Based on ISO 4787	1 ml to 10 ml	1.2µl

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112	MECHANICAL-VOLUME	Glassware (Pipettes, burettes, Volumetric Flask, Beaker, Measuring Cylinder)	Using Weighing Balance of 20 kg Capacity and 0.1 g Readability & Distilled Water Gravimetric Method Based on ISO 4787	2 l to 10 l	8ml
113	MECHANICAL-VOLUME	Micro Pipette	Using Weighing Balance of 220 g Capacity and Readability up to 82 g, 0.01 mg and above ,0.1 mg & Distilled Water Gravimetric Method Based on ISO 8655 part 6)	10 µl to 100 µl	1.1µl
114	MECHANICAL-VOLUME	Micro Pipette	Using Weighing Balance of 220 g Capacity and Readability up to 82 g, 0.01 mg and above ,0.1 mg & Distilled Water Gravimetric Method Based on ISO 8655 part 6)	100 µl to 1000 µl	1.1µl
115	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class-I) (Readability: 0.1 mg)	Using standard weights of E-1 class as per OIML R-76-1	>82 g to 220 g	0.2mg

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116	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class-I) (Readability: 1 mg)	Using standard weights of E-2 class as per OIML R-76-1	>220 g to 3 kg	3.15mg
117	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class-I) Readability:0.001 mg	Using Standard Weight of E1 Class, as OIML-R-76-1	1 mg to 6 g	0.008mg
118	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class-I) Readability:0.01 mg	Using standard weights of E-1 class as per OIML R-76-1	>6 g to 82 g	0.08mg
119	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class-III) (Readability:0.1 g)	Using standard weights of E-2 class as per OIML R-76-1	>3 kg to 20 kg	200mg
120	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class-IV) (Readability: 1 g)	Using Standard weights of M-1 Classas per OIML R-76-1	> 20 kg to 50 kg	2g
121	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class-IV) (Readability: 20 g)	Using standard weights M-1 class as per OIML R-76-1	>50 kg to 200 kg	20g
122	MECHANICAL-WEIGHTS	Aggregate Impact Machine (Weight of Hammer)	Using Standard Weight and Digital weighing Balance By comparison method	13.75 kg	50g

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123	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E2 Class weight and Balance Readability 1 mg , as per OIML R-111	1 kg	1mg
124	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.01 mg as per OIML R-111	1 g	0.03mg
125	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.01 mg as per OIML R-111	1 mg	0.01mg
126	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.01 mg as per OIML R-111	10 g	0.06mg
127	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.01 mg as per OIML R-111	10 mg	0.01mg
128	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.1 mg as per OIML R-111	100 g	0.1mg

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129	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.01 mg, as per OIML R-111	100 mg	0.01mg
130	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.01 mg as per OIML R-111	2 g	0.04mg
131	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-2 Class Weights and Balance of Readability 1 mg as per OIML R-111	2 kg	3mg
132	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.01 mg as per OIML R-111	2 mg	0.01mg
133	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.01 mg, as per OIML R-111	20 g	0.08mg
134	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.01 mg as per OIML R-111	20 mg	0.01mg

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135	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.1 mg as per OIML R-111	200 g	0.33mg
136	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.01 mg as per OIML R-111	200 mg	0.02mg
137	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.01 mg as per OIML R-111	5 g	0.05mg
138	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.01 mg as per OIML R-111	5 mg	0.01mg
139	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.01 mg, as per OIML R-111	50 g	0.10mg
140	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.01 mg ,as per OIML R-111	50 mg	0.01mg

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141	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-2 Class Weights and Balance of Readaability 1 mg as per OIML R-111	500 g	1mg
142	MECHANICAL-WEIGHTS	Weights F1 Accuracy class weight and coarser	Using E-1 Class Weights and Balance of Readability 0.01 mg, as per OIML R-111	500 mg	0.02mg
143	MECHANICAL-WEIGHTS	Weights M1 Accuracy class weight and coarser	Using E-2 Class Weights and Balance of Readability 100 mg as per OIML R-111	10 kg	0.33g
144	MECHANICAL-WEIGHTS	Weights M1 Accuracy class weight and coarser	Using E-2 Class Weights and Balance of Readability 100 mg as per OIML R-111	20 kg	0.33g
145	MECHANICAL-WEIGHTS	Weights M1 Accuracy class weight and coarser	Using E-2 Class Weights and Balance of Readability 100 mg as per OIML R-111	5 kg	0.33g
146	MECHANICAL-WEIGHTS	Weights M2 Accuracy class weight and coarser	Using M-1 Class Weights and Balance of Readability 1 g as per OIML R-111	50 kg	2g

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147	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity & Temperature Indicator of Humidity Chamber, Conditioning Chamber etc. (@25°C)	Using Temperature cum RH Probe with Indicator/Data logger ,Single & Multi Position Calibration, Comparison method	25 %RH to 95 %RH	2.84%RH
148	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity & Temperature Indicator of Humidity Chamber, Conditioning Chamber etc. (@50% RH)	Using Temperature Cum RH Probe /Data logger, Single & Multi Position Calibration Comparison method	10 °C to 50 °C	1.1°C
149	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Controller / Indicator /Digital Hygro Thermometer / Dial Hygrometer / Wet & Dry Blub Thermometer @25 ºC	Using Temperature cum RH Probe with Indicator and Humidity Chamber by Comparison method	25 %RH to 95 %RH	1.9%RH
150	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Controller / Indicator /Digital Hygro Thermometer / Dial Hygrometer / Wet & Dry Blub Thermometer @50 %RH	Using Temperature cum RH Probe with Indicator and Humidity Chamber by Comparison method	10 °C to 50 °C	1.1°C

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151	THERMAL-TEMPERATURE	Infrared Temperature Indicator / Thermal Imager / Pyrometer	Using with Digital Pyrometer (IR Thermometer)and black body source with emissivity 0.99 (± 0.01) By Comparison Method	>300 °C to 1200 °C	3.8°C
152	THERMAL-TEMPERATURE	Infrared Temperature Indicator / Thermal Imager / Pyrometer	Using with Digital Pyrometer (IR Thermometer)and black body source with emissivity 0.99 (± 0.01) By Comparison Method	10 °C to 300 °C	2.5°C
153	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without indicator, Digital temperature controller/Indicator/Temperature data logger with sensor/Liquid glass thermometer/Temperature transmitter	Using RTD With Digital indicator, by comparison method	(-)30 °C to 50 °C	0.25 °C

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154	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without indicator, Digital temperature controller/Indicator/Temperature data logger with sensor/Liquid glass thermometer/Temperature transmitter	Using RTD With Digital Indicator , By Comparison Method	>50 °C to 300 °C	0.4 °C
155	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without indicator, Digital temperature controller/Indicator/Temperature data logger with sensor/Temperature transmitter	Using S-Type Thermocouple with Digital Indicator ,By Comparison Method	>300 °C to 600 °C	0.93 °C
156	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of C.B.C, Oven, Autoclave, Liquid Bath,Furnace ,Dry Block Furnace etc.	Using RTD/Thermocouple with Indicator /data logger, Single & Multi Position Calibration By Comparison Method	>50 °C to 500 °C	4.3°C

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157	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Furnace ,Dry Block Furnace etc.	Using Thermocouple With Indicator / Data Logger , Single & Multi Position Calibration By comparison method	>500 °C to 1200 °C	8.0 °C
158	THERMAL-TEMPERATURE	Temperaure Indicator with Sensor of Defreeze/ Incubator /B.O.D./Water Bath/ Cold Chamber/liquid bath/Conditioning Chamber etc.	Using RTD with Digital Indicator/ Data Logger ,Single & Multi Position By Comparison Method (Non Medical Purpose Only)	-80 °C to 100 °C	2.6 °C
159	THERMAL-TEMPERATURE	Thermocouple with or without Indicator, Digital Temp. Controller/ Indicator/ Temp. Data Logger with Sensor / Temperature Transmitter	Using S-Type Thermocouple with Digital Indicator, By Comparison Method	>600 °C to 1200 °C	1.92 °C

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Site Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Active Power / Energy (230 V to 300 V, 2 A to 20 A, At 50 Hz , ± 0.5 to 1 PF, @50 Hz)	Using Digital Energy logger (Fluke 1730A) by Direct Method	0.23 kW to 36 kW	2.8%
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC High Voltage @50 Hz	Using HV Probe with Digital Multimeter By Comparison Method	1 kV to 100 kV	4.6%
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Power Factor	Using Digital Energy logger (Fluke 1730A) by Direct Method	(-)0.2 UPF to (+)0.2 UPF	0.001 PF to 0.001 PF
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Turn Ration Meter	Using standard Turn Ration Calibrator by Direct Method	11 Turn Ratio to 1900 Turn Ratio	0.8%
5	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Digital Multimeter By Coparison Method	1 kV to 30 kV	3.3%

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6	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using 5 1/2 Digit Multi Function Calibrator (Fluke 5080A) By Direct Method	190 kohm to 190 Mohm	0.05 % to 1.15 %
7	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	1 kohm	0.23%
8	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Box by Direct Method	1 Mohm to 210 Gohm	0.6 % to 4.5 %
9	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	10 kohm	0.23%
10	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	10 mohm	0.28%
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	1 mohm	0.24%

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12	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	1 ohm	0.24%
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using 5 1/2 Digit Multi Function Calibrator (Fluke 5080A) By Direct Method	1 ohm to 190 kohm	1.2 % to 0.05 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	10 ohm	0.23%
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Digital Calibrator (Masibus) by Direct Method	10 ohm to 2 kohm	7.1 % to 0.2 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	100 mohm	0.23%
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	100 ohm	0.23%

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18	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Capacitance(at 1 kHz)	Using Standard Capacitance Box By Direct Method	1 nF to 3 µF	1.7%
19	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Inductance(at 1 kHz)	Using Standard Inductance Box By Direct Method	1 mH to 1 H	1.6%
20	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation -N- Type Thermocouple	Using 6.5 Digit DMM By Simulation Method	-100 ºC to 1300 ºC	0.8ºC
21	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) -RTD	Using Digital calibrator (Masibus), & 6.5 Digit DMM (Fluke 8846A) by Simulation Method	-200 ºC to 790 ºC	0.4ºC
22	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) B-Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	500 ºC to 1700 ºC	2.7ºC

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23	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) E-Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	(-)50 ºC to 900 ºC	0.8ºC
24	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) J-Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	50 ºC to 800 ºC	0.5ºC
25	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) K-Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	50 ºC to 1200 ºC	0.8ºC
26	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) N- Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	-100 ºC to 1300 ºC	0.8ºC
27	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) R-Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	100ºC to 1600ºC	3.4ºC

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28	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) S-Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	200 ºC to 1600 ºC	3.4ºC
29	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Recorder) T-Type Thermocouple	Using 5.5 Digit M.F.C.(Fluke 5080A) By Simulation Method	(-)100 ºC to 900 ºC	2.5ºC
30	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer (Stop Watch/Timer/Hour Meter)	Using Digital Timer and Stop Watch By Comparison Method	1 s to 12 h	2 % to 0.5 %
31	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, Vibrating Machine, RPM Measurement L.C :0.1 rpm	Using Tachometer with Source By Comparison Method	10 RPM to 1000 RPM	1.39%
32	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, Vibrating Machine, RPM Measurement L.C :0.1 rpm	Using Tachometer with Source By Comparison Method	1000 RPM to 30000 RPM	0.25%
33	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Tachometer with Source By Comparison Method	10 RPM to 1000 RPM	1.39 %

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34	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Tachometer with Source By Comparison Method	1000 RPM to 30000 RPM	0.25%
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Aggregate Impact Machine (Dimension measurement of parts)	Using digital Vernier caliper, Surface Plate ,Height gauge by Comparison method	6 mm to 250 mm	29µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector	Using Glass Scale by comparison method	0 to 200 mm	1.5µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector	Using Angle Gauge by comparison method	0° to 360°	30s
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector	Using Digital Vernier caliper By Comparison method	10 X to 100 X	1.7%

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39	MECHANICAL-HARDNESS TESTING MACHINES	Rebound Hammer	Using Standrad Anvil by comparison (Ref ASTM C-805-2)	10 Rebound to 100 Rebound	15%
40	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Test Block as per IS:1586 (part-2) by Indirect method	20 HRC to 70 HRC	0.72HRC
41	MECHANICAL-HARDNESS TESTING MACHINES	Standard Anvil	Using Leeb Hardness Tester by comparison method (Ref. ASTM C-805-2)	64 HRC to 68 HRC	1.9HRC
42	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure : Pressure Gauge / Pressure Transmeter (Digital / Analog)	Using Digital Pressure Gauge & Camparator (Hydraulic Oil Pump) by Comparison method as per DKD R-6-1	0 to 700 bar	0.7% of rdg
43	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure : Pressure Gauge / Pressure Transmeter (Digital / Analog)	Using Digital Pressure Gauge & Camparator (Pneumatic Type) by Comparison method as per DKD R-6-1	0 to 10 bar	0.5% of rdg
44	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Digital / Analog)	Using Digital Gauge Camparator (Pneumatic Type) by Comparison method as per DKD R-6-1	(-) 0.9 bar to 0	0.51% of rdg

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45	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine (Compression)	Using Load Cell and Force Proving Ring As per IS: 1828(part -1):2015	0.2 kN to 3000 kN	0.60%
46	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine [Tension]	Using Load Cell and Force Proving Ring As per IS: 1828(part -1):2015	10 N to 500 kN	0.58%
47	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class-I) (Readability: 0.1 mg)	Using standard weights of E-1 class as per OIML R-76-1	>82 g to 220 g	0.2mg
48	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class-I) (Readability: 1 mg)	Using standard weights of E-2 class as per OIML R-76-1	>220 g to 3 kg	3.15mg
49	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class-I) Readability:0.001 mg	Using Standard Weight of E1 Class, as OIML-R-76-1	1 mg to 6 g	0.008mg
50	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class-I) Readability:0.01 mg	Using standard weights of E-1 class as per OIML R-76-1	>6 g to 82 g	0.08mg

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51	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class-III) (Readability:0.1 g)	Using standard weights of E-2 class as per OIML R-76-1	>3 kg to 20 kg	200mg
52	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class-IV) (Readability: 1 g)	Using Standard weights of M-1 Classas per OIML R-76-1	> 20 kg to 50 kg	2g
53	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class-IV) (Readability: 20 g)	Using standard weights M-1 class as per OIML R-76-1	>50 kg to 200 kg	20g
54	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale of Batching /Mix Plant	Using cast iron weights by comparison method (Ref. IS 4925)	>20 kg to 1500 kg	750g
55	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale of Batching /Mix Plant	using standard weight by comparison method (Ref. IS 4925)	200 g to 6 kg	1.39g
56	MECHANICAL-WEIGHTS	Aggregate Impact Machine (Weight of Hammer)	Using Standard Weight and Digital weighing Balance By comparison method	13.75 kg	50g

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57	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity & Temperature Indicator of Humidity Chamber, Conditioning Chamber etc. (@25°C)	Using Temperature cum RH Probe with Indicator/Data logger ,Single & Multi Position Calibration, Comparison method	25 %RH to 95 %RH	2.84%RH
58	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity & Temperature Indicator of Humidity Chamber, Conditioning Chamber etc. (@50% RH)	Using Temperature Cum RH Probe /Data logger, Single & Multi Position Calibration Comparison method	10 °C to 50 °C	1.1°C
59	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without indicator, Digital temperature controller/Indicator/Temperature data logger with sensor/Liquid glass thermometer/Temperature transmitter	Using RTD With Digital indicator, by comparison method	(-)30 °C to 50 °C	0.25 °C

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60	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without indicator, Digital temperature controller/Indicator/Temperature data logger with sensor/Liquid glass thermometer/Temperature transmitter	Using RTD With Digital Indicator , By Comparison Method	>50 °C to 300 °C	0.4 °C
61	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without indicator, Digital temperature controller/Indicator/Temperature data logger with sensor/Temperature transmitter	Using S-Type Thermocouple with Digital Indicator ,By Comparison Method	>300 °C to 600 °C	0.93 °C
62	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of C.B.C, Oven, Autoclave, Liquid Bath,Furnace ,Dry Block Furnace etc.	Using RTD/Thermocouple with Indicator /data logger, Single & Multi Position Calibration By Comparison Method	>50 °C to 500 °C	4.3°C

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63	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Furnace ,Dry Block Furnace etc.	Using Thermocouple With Indicator / Data Logger , Single & Multi Position Calibration By comparison method	>500 °C to 1200 °C	8.0 °C
64	THERMAL-TEMPERATURE	Temperaure Indicator with Sensor of Defreeze/ Incubator /B.O.D./Water Bath/ Cold Chamber/liquid bath/Conditioning Chamber etc.	Using RTD with Digital Indicator/ Data Logger ,Single & Multi Position By Comparison Method (Non Medical Purpose Only)	-80 °C to 100 °C	2.6 °C
65	THERMAL-TEMPERATURE	Thermocouple with or without Indicator, Digital Temp. Controller/ Indicator/ Temp. Data Logger with Sensor / Temperature Transmitter	Using S-Type Thermocouple with Digital Indicator, By Comparison Method	>600 °C to 1200 °C	1.92 °C

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