



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

NABL / C-0226

18.11.2022

**AJAY VEER**

QUALITY SOLUTIONS (INDIA)

PLOT NO: X-4 , BPTP , SECTOR-76

FARIDABAD, HARYANA-121006

Mobile: 9868069836

E-mail: qsi\_fbd@rediffmail.com

Subject: **Renewal of NABL Accreditation**

Dear Sir,

NABL is pleased to inform you the renewal of accreditation in accordance with ISO/IEC 17025: 2017 in the disciplines of Electro-technical, Mechanical Thermal and Optical calibration as per the scope as recommended by the assessment team with the changes as mentioned below:

- Accuracy of Weights (as DUC) is given as F2 for 50 g, M1 for 1 mg and M2 for 20 kg & 50 kg in line with OIML R 111 w.r.t the CMC achieved during the assessment and setup available with the laboratory.
- Infrared Temperature Indicator / Pyrometer (10 Å°C to 50 Å°C) is given for Non-medical purpose only.
- RTD (as DUC) is removed from Sr. No. 186 as the master used is R type Thermocouple which is not acceptable in Thermal scope.
- Rubber Hardness Tester is given for Shore A and Shore D only as other types are not demonstrated.
- Parameters at Sr. No. 192 and 193 are merged (as 1 kV to 28 kV) with CMC value as 5.81 % in the Electro-technical scope.
- Parameters at Sr. No. 207 and 208 are merged (as 1 kV to 10 kV) with CMC value as 3.74 % in the Electro-technical scope

However, your laboratory is required to address the following within 10 days:

- Review the calibration method for Spring Balance in the Mechanical scope.
- Segregate the CMC for Bench Centre, Straight Edge & V-Block w.r.t the parameters in the scope.
- Mention the readout device for Pressure Transmitter in the Mechanical scope.
- Mention the latest (only) year of publication for UTM & Durometer in the scope.
- Mention the emissivity of IR Thermometer (as DUC) in the Thermal scope.
- Mention the range of Energy in terms of Wh / kWh in Electro-technical scope.
- Segregate the Energy parameters for Single Phase and Three Phase in scope.
- Mention the discrete value (wherever applicable) for the Resistance as per the standards used in the Electro-technical scope.

Further, NABL hereby issuing a show cause notice to your laboratory to be replied within 10 days as to why accreditation should not be denied for the following:

- All the DUCs (above 100 mm) using ULM / LMM in view of unavailability of the Metrological Traceability of master (above 100 mm).
- Gauge Block Comparator in view of coarser CMC values as per Euramet cg 2.
- Glassware (at Sr. No. 6) in view of inadequate Weighing Balance used as readability is not appropriate in Mechanical scope.
- Acceleration and Speed 10 rpm to 100 rpm (Contact type) and 10 rpm to 1000 rpm (non-contact type) in view of coarser CMC values.
- Pressure Indicating Devices {(-) 0.8 bar to 0 bar} in view of Inadequate Metrological Traceability as it is not in SI Units.
- Pressure Indicating Devices " Pneumatic (0 to 30 bar) as the same master gauge is used in Hydraulic Medium which is not acceptable.
- Torque Measuring Devices in view of inadequate CMC calculations (ref.: NABL 129) as contribution due to Force, Length & Angle is not considered for the standard torque.
- Multi-position Calibration in view of insufficient Calibration Observations & the Stability and Uniformity contribution is not considered as per standard.

Your laboratory is required to participate in next available PT program.

All persons proposed by your laboratory to calibration report, review and authorize the results is accepted.

You may issue reports with NABL symbol w.e.f 09.11.2022 and valid till 08.11.2024 vide Certificate No.: CC-2717

There will be a desktop surveillance within 10 to 12 months from the date of issue of certificate to verify the continued compliance of your laboratory as per ISO/IEC 17025: 2017 and NABL requirements.

You are requested to follow NABL-133 (current issue) for using NABL symbol and for using of NABL Accredited CAB Combined ILAC MRA Mark on your test report.

Further clarification regarding permission from NABL to use NABL Accredited CAB Combined ILAC MRA Mark is given on the NABL Website.

The accredited laboratory shall mention the ULR No. and QR Code on all the test reports. The details for implementation of the same is given on the NABL Website.

Yours Sincerely,

**Rajeshwar Kumar**

rajeshwar@nabl.qcin.org

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NABL House, Plot 45, Sector 44, Gurugram 122 003, Haryana, India  
Tel. No.: +91-124-4679700 (30 lines) \* Fax: +91-124-4679799 \* Website: [www.nabl-india.org](http://www.nabl-india.org)



National Accreditation Board for Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**QUALITY SOLUTIONS (INDIA)**

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

PLOT NO: X-4 , BPTP , SECTOR-76, FARIDABAD, HARYANA, INDIA

in the field of

**CALIBRATION**

Certificate Number: CC-2717

Issue Date: 09/07/2020

Valid Until: 08/07/2022

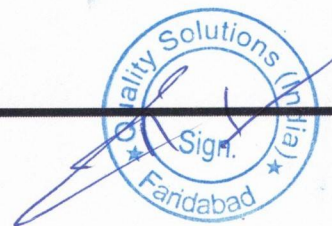
This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL. (To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Identity : QUALITY SOLUTIONS (INDIA)

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer







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09/07/2020 to 08/07/2022

**Last Amended on**

11/02/2022

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 High Voltage at 50Hz	Using High voltage probe ( Fluke) with DMM /Direct Method	1 kV to 5 kV	1.81 % to 0.67 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage at 50Hz	Using High voltage probe ( Fluke) with DMM /Direct Method	5 kV to 10 kV	0.93 % to 2.54 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	CAPACITANCE at 1kHz	Using LCR Q meter ,Model -4910 Make: Aplab ,/direct Method	1 nF to 1000 nF	2.31 % to 0.21 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	INDUCTANCE at 1 kHz	Using LCR -Q METER make: Aplab Model: 4910 / Direct Method	100 μH to 1 H	3.47%
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT@50Hz	Using 51/2, Multifunction calibrator , Make : Zeal , Direct Method	2 A to 10 A	2.02 % to 0.33 %



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6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT@50Hz	Using 51/2, Multifunction calibrator , Make : Zeal , Direct Method	2 mA to 2000 mA	0.39 % to 1.27 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT@50Hz	Using 51/2, Multifunction calibrator , Make : Zeal , Direct Method	200 µA to 2 mA	1.27 % to 0.39 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC voltage@50Hz	Using 51/2 Multi function calibrator, Zeal Make, Direct Method	200 mV to 200 V	0.21 % to 0.33 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC voltage@50Hz	Using 51/2 Multi function calibrator, Zeal Make, Direct Method	200 V to 1000 V	0.33 % to 0.23 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC VOLTAGE@50Hz	Using 51/2, Multifunction calibrator , Make : Zeal , Direct Method	5 mV to 200 mV	1.92 % to 0.21 %



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11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC- High Current at 50 Hz	Using 5 1/2 Digit , Zeal Make,Multifunction calibrator with current coil / Direct Method	10 A to 100 A	1.87 % to 1.75 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC- High Current at 50 Hz	Using 5 1/2 Digit , Zeal Make,Multifunction calibrator with current coil / Direct Method	100 A to 1000 A	1.75 % to 0.64 %
13	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using High voltage probe ( Fluke) with DMM /Direct Method	1 kV to 5 kV	4.37 % to 2.76 %
14	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using High voltage probe ( Fluke) with DMM /Direct Method	5 kV to 10 kV	2.76%
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 1/2 DMM, Model- 8846-A, Make : Fluke . Direct Method	1 ohm to 10 ohm	0.38 % to 0.05 %





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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 1/2 DMM, Model : 8846-A , Make: Fluke : / Direct method	10 ohm to 100 ohm	0.05%
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 1/2 DMM, Model : 8846-A , Make: Fluke : / Direct method	100 kohm to 2 Mohm	0.05 % to 0.14 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 1/2 DMM, Model : 8846-A , Make: Fluke : / Direct method	100 ohm to 100 kohm	0.05%
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 1/2 DMM, Model : 8846-A , Make: Fluke : / Direct method	2 Mohm to 200 Mohm	0.14 % to 2.40 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Capacitance @1kHz	Using std. capacitance box( Discrete Method) / Direct Method	1 nF to 1 µF	6.18 % to 5.91 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using 51/2, Multifunction calibrator , Make : Zeal , Direct Method	2 A to 9 A	1.27 % to 0.24 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using 51/2, Multifunction calibrator , Make : Zeal , Direct Method	2 mA to 2000 mA	0.22 % to 0.66 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using 51/2, Multifunction calibrator , Make : Zeal , Direct Method	200 $\mu$ A to 2 mA	1.87 % to 0.22 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Std. Resistance Box ( Discrete value) / Direct Method	0.001 ohm to 200 Mohm	4.06 % to 4.58 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 51/2, Multifunction calibrator , Make : Zeal , Direct Method	1 mV to 200 mV	1.12 % to 0.12 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 51/2, Multifunction calibrator , Make : Zeal , Direct Method	200 mV to 200 V	0.12 % to 0.13 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 51/2, Multifunction calibrator , Make : Zeal , Direct Method	200 V to 1000 V	0.13%





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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC- High Current	Using 5 1/2 Digit , Zeal Make,Multifunction calibrator with current coil / Direct Method	10 A to 100 A	2.84 % to 1.18 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC- High Current	Using 5 1/2 Digit , Zeal Make,Multifunction calibrator with current coil / Direct Method	100 A to 900 A	1.18 % to 0.62 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Inductance @1kHz	Using Std. Inductance decade box ( Discrete values) By Direct Method	1 mH to 1 H	6.12%
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type	Using Universal calibrator by simulation method	-100 °C to 750 °C	1.33°C
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type	Using Universal calibrator by simulation method	-200 °C to 1350 °C	1.2°C



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33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	PT-100/ RTD	Using Universal calibration by simulation method	50 °C to 490 °C	1.30°C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type	Using universal calibrator by simulation method	200 °C to 1700 °C	1.63°C
35	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 1/2, DMM, Model : 8846 A, Make: Fluke / Direct Method	50 Hz to 200 kHz	0.01 % to 0.006 %
36	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Time Interval	Using Time calibrator / Direct Method:	1 s to 999 s	6.62 % to 0.07 %
37	MECHANICAL-ACCELERATION AND SPEED	Tachometer / RPM measurement - contact Type	Using Digital Tachometer (Non contact Tachometer with RPM source) by Comparison method / By Using SANAS TR45-02	10 RPM to 100 RPM	2.0RPM



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38	MECHANICAL-ACCELERATION AND SPEED	Tachometer / RPM measurement - contact Type	Using Digital Tachometer (Non contact Tachometer with RPM source) by Comparison method / By Using SANAS TR45-02	100 RPM to 1000 RPM	2.4RPM
39	MECHANICAL-ACCELERATION AND SPEED	Tachometer / RPM measurement - contact Type	Using Digital Tachometer (Non contact Tachometer with RPM source) by Comparison method / By Using SANAS TR45-02	1000 RPM to 8000 RPM	4.0RPM
40	MECHANICAL-ACCELERATION AND SPEED	Tachometer / RPM measurement - Non contact Type	Using Digital Tachometer (Non contact Tachometer with RPM source) by Comparison method / By Using SANAS TR45-02	10 rpm to 1000 rpm	2.3rpm
41	MECHANICAL-ACCELERATION AND SPEED	Tachometer / RPM measurement - Non contact Type	Using Digital Tachometer (Non contact Tachometer with RPM source) by Comparison method / By Using SANAS TR45-02	1000 RPM to 10000 RPM	4.9RPM





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42	MECHANICAL-ACCELERATION AND SPEED	Tachometer / RPM measurement - Non contact Type	Using Digital Tachometer (Non contact Tachometer with RPM source) by Comparison method / By Using SANAS TR45-02	10000 RPM to 50000 RPM	6.2RPM
43	MECHANICAL-ACOUSTICS	Sound Level meter@1kHz	USing sound level calibrator , direct method	114 @1kHz dB	0.43dB
44	MECHANICAL-ACOUSTICS	Sound Level meter@1kHz	Using Sound calibrator by comparison method	94 @1kHz dB	0.43dB
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Ring Gauge	Using LMM	100 mm to 180 mm	2.49µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Ring Gauge	Using Length measuring M/C	3 mm to 100 mm	2.7µm



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47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauges	Using Sine bar , Electronics Probe, Lever dial , Surface plate , Gauge Block( 0-Grade)	0 ° to 180 °	10 sec of arc
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate / Box Angle Plate ( Flatness , Parallelism, Sqareness)	Using Surface plate , Master cylinder , Lever Dial , Height gauge , Jacks	Upto 450 mm	13.0µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel / Degree Protectors LC= 0.01°/ 5 minutes	Using Angle gauges set,Dial indicator, Height Gauge, Master Cylinder and surface plate	0 ° to 180 degree	3.8minutes of arc
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauges (2 Point) Transmission Accuracy Check) LC=0.001 mm	Using Length measuring M/C	upto 2 mm	0.81µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper ( Vernier , Dial , Digital) LC=0.01 mm	Using Length Bar , Gauge Block(0-Grade) , Digital Micrometer	0 to 1000 mm	14.43µm



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52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper ( Vernier , Dial , Digital) LC=0.01 mm	Using Caliper checker , Gauge Block(0-Grade)	0 to 300 mm	10.18µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper ( Vernier , Dial , Digital) LC=0.01 mm	Using Caliper checker , Gauge Block(0-Grade) , Digital Micrometer	0 to 600 mm	13.2µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper ( Vernier , Dial , Digital) LC=0.02 mm	Using Length Bar , Gauge Block(0-Grade) , Digital Micrometer	0 to 1000 mm	17.0µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper ( Vernier , Dial , Digital) LC=0.02 mm	Using Length Bar , Gauge Block(0-Grade) , Digital Micrometer	0 to 1800 mm	28.4µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge LC=0.1/1 micron	Using Coating/ Master Foils	0 to 0.8 mm	4.0µm





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57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination set LC= 1°	Using Angle Gauges	0 degree to 180 degree	36minutes of arc
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Standard	Using Length measuring M/C	0.5 mm to 100 mm	1.3µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Standard	Using Length measuring M/C , Gauge Block ( 0 Grade)	100 mm to 150 mm	1.62µm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Standard	Using Length measuring M/C , Setting Plug	100 mm to 200 mm	2.0µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C =0.001 mm	Using Gauge Blocks (0-Grade), Surface Plate	0 to 150 mm	3.9µm



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62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C =0.001 mm	Using Gauge Blocks (0-Grade),Surface Plate	0 to 25 mm	2.5µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper - External , LC= 0.01 mm	Using Gauge Block (0- Garde)	0 to 50 mm	1.4µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial caliper- Internal	Using Digital Micrometer	10 mm to 150 mm	8.3µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator ( Lever Type)) L.C =0.001 mm	Using Length Measuring M/C	0 to 0.14 mm	0.99µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator ( Lever Type)) L.C =0.002 mm	Using Length Measuring M/C	0 to 0.60 mm	2.0µm



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67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator ( Lever Type)) L.C =0.01 mm	Using Length Measuring M/C	0 to 1.0 mm	1.41µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator ( Plunger type) L.C =0.01 mm	Using Length Measuring M/C	0 to 100 mm	1.67µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator ( Plunger) L.C =0.001 mm	Using Length Measuring M/C	0 to 50 mm	1.1µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator ( Plunger) L.C =0.001 mm	Using Length Measuring M/C	0 to 25 mm	1.4µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge LC=0.01 mm	Using Gauge Blocks ( 0- Grade)	0 to 50 mm	7.0µm





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72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge LC=0.1 mm	Using Gauge blocks ( 0-Garde)	0 to 100 mm	11.5µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge / Dial Caliper LC=0.001 mm	Using Gauge blocks ( 0-Garde)	0 to 12 mm	0.8µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronics Level LC= 0.01 mm/mtr	Using Robust Tilting Table , Electronics level	upto 10 mm/mtr	7.75µm/mtr
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Square/ Cylindrical Square - Squareness	Using Surface plate , Master cylinder , Gauge Block ( 0-Grade)	upto 600 mm	11.30µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital/Plain/Analog/ Blade/Pitch/Pointed Flange/ Groove) L.C =0.001 mm	Using Gauge Blocks (0-Grade) , Optical flat, Set of Optical Parallels	0 to 150 mm	1.60µm



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77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital/Plain/Analog/ Blade/Pitch/Pointed Flange/ Groove) L.C =0.001 mm	Using Gauge Blocks (0-Grade) , Optical flat, set of 4 Optical Parallels	0 to 25 mm	1.27µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital/Plain/Analog/ Blade/Pitch/Pointed Flange/ Groove) L.C =0.01 mm	Using Length Bar , Gauge Blocks (0-Grade) , Optical flat, set of 4 Parallels	1000 mm to 1800 mm	26.0µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital/Plain/Analog/ Blade/Pitch/Pointed Flange/ Groove) L.C =0.01 mm	Using Length Bar , Gauge Blocks (0-Grade) , Optical flat, set of 4 Optical Parallels	150 mm to 1000 mm	10.70µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler gauge/ Coating Foils	Using Length measuring M/C	Up to 3 mm	0.80µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Electronics Probe , Surface plate	Upto 100 µm	2.3µm



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82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge ( Vernier , Dial , Digital) 0.01 mm	Using Caliper checker , Surface plate , Lever Dial	0 to 300 mm	7.9µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge ( Vernier , Dial , Digital) 0.01 mm	Using Caliper checker , Surface plate , Lever Dial	0 to 600 mm	9.2µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge ( Vernier , Dial , Digital) 0.02 mm	Using Length , Surface plate , Lever Dial	0 to 1000 mm	13.63µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Master ( Pitch Block Accuracy)	Using Linear height 2d , Surface plate , Gauge block (0-Grade)	0 to 600 mm	7.7µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal /Stick Micrometer L.C =0.001 mm	Using Gauge block-0 grade with accessories and Caliper checker	50 mm to 500 mm	7.0µm





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87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal /Stick Micrometer L.C =0.01 mm	Using G blocks (0-Grade)with acc.+ Caliper checker	5 mm to 500 mm	8.80mm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear / Electronics-2 D Height Gauge (LC=0.0001 mm)	Using Length Bar, Gauge Block ( 0 Grade) , Surface plate, Master Cylinder	0 to 600 mm	5.90µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins	Using Length measuring M/C	0.1 mm to 20 mm	0.82µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Metric Steel scales	Using Scale & Tape calibration unit	0 to 2000 mm	200 sqrt L/1000 (Where L is in mm)µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Metric Steels/ Woven Metallic / Fiber Tapes	Using Scale & Tape calibration unit	0 to 50 meter	200 sqrt L/1000 ( Where L is in mm)µm



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92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head L.C =0.001 mm	Using LMM	0 to 50 mm	1.1µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod /Length Bar	Using Length Measuring M/C, 0-Grade slip gauges , Setting Plug	100 mm to 200 mm	2.97µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod /Length Bar	Using Length Bar ,Plunger Dial with Comparator stand	200 mm to 500 mm	7.07µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod /Length Bar	Using Length Measuring M/C	25 mm to 100 mm	1.3µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod /Length Bar	Using Length Bar ,Plunger Dial with Comparator stand	500 mm to 1000 mm	12.75µm



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97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape	Using Scale & Tape calibration unit	15 mm to 320 mm	117 L/1000 (L is in mm) $\mu$ m
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge( Setting /Master)	Using LMM	100 mm to 180 mm	2.9 $\mu$ m
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge( Setting /Master)	Using Length measuring M/C	3 mm to 100 mm	1.67 $\mu$ m
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Length measuring M/C	1 mm to 100 mm	1.1 $\mu$ m
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using LMM	100 mm to 270 mm	2.8 $\mu$ m





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102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/ Magnetic V Block ( Flatness , Perpendicularity )	Using Surface plate , Lever dial , Test Mandrels , Cylindrical Work piece, Height gauge for Holding	Upto 200 mm	8.0µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/ Magnetic V Block ( Parallelism )	Using Surface plate , Lever dial , Test Mandrels , Cylindrical Work piece, Height gauge for Holding	Upto 200 mm	5.0µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profil / Form Gauges (Linear Dim.)	Using Profile Projector	Upto 200 mm	5.8µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile / Form Gauges ( Angle measurement)	Using Profile Projector	Upto 60 deg.	2.4min.of arc
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector	0.6 mm to 100 mm	4.72µm



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107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar -Angular Measuremnets	Using Angle Gauges , Electronics Probe, Lever dial , Surface plate , Height gauge, Gauge Block( 0-Grade)	upto 300 mm	13.8sec. of arc
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using LMM	100 mm to 180 mm	2.8µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Length measuring M/C	3 mm to 100 mm	1.82µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level LC (0.02 mm/mtr)	Using Robust Tilting Table , Electronics level , Dial indicator( lever) , Height gauge, surface plate	Upto 300 mm (Base length) mm	7.90µm/mtr
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge ( I-Section) - Straightness, Parallelism	Using Electronics Level	Upto 6000 X 50 mm	0.7 sqrt L+W/125 ( L & W is in mm)µm



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112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate , Comparator Stand ( Granite & Cast Iron) -Flatness Deviation	Using Electronics level	Up to 6000 X 6000 mm	0.7 sqrt L+W /125 (L ,W is in mm)µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrels- Straight (Straightness & Run out)	Using Bench Center ,Dial Indicator ( Lever)	upto 500 mm	8.4µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves - Aperture size	Using Profile projector	0.04 mm to 4.0 mm	2.52µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves - Aperture size	Using Digital caliper	4.0 mm to 125 mm	23.0µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge/ Micrometer- Flank Angle	Using Profile Projector	UPTO 60 degree	0.2min.of arc





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117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge/ Micrometer- Pitch accuracy	Using Profile Projector	0.25 mm to 6.0 mm	2.80µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread plug/ WCP Gauge-Effective Diameter	Using Length measuring M/C ,	1 mm to 100 mm	1.68µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread plug/ WCP Gauge-Effective Diameter	Usimh LMM	100 mm to 180 mm	2.39µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring/ Wear checking Ring Gauge-Effective Dia.	Using Length measuring M/C.	3 mm to 100 mm	1.86µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Pin Micrometer LC=0.001 mm	Using set of Ring gauges	15 mm to 65 mm	3.9µm



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122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge LC= 0.001 mm	Using Gauge Block-0-Grade	1.2 mm to 100 mm	70.4µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Depth Gauge LC=0.001 mm	Using Length Bar Grade -0 Gauge Block ,Lever dial Surface plate , Holding fixture	0 to 200 mm	9.2µm
124	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker /Check Master	Using Caliper checker / Length Bar (As a comparator ,Linear height 2D)+, Surface Plate	0 to 600 mm	8.0µm
125	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial calibration Tester LC=0.001 mm	Using Electronics Probe , Gauge Block (0-Grade)	0 to 25 mm	2.15µm
126	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronics Probe LC= 0.01/0.1 micron	Using Gauge Block, Slip Gauges ( 0-Grade) . Surface Plate	0 to 25 mm	1.33µm
127	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Comparators LC=0.01 micron	Using Gauge Block set -Slip gauges (K-Grade) ,	0 to 100 mm	0.10µm



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128	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Accessories - Flatness	Using Optical Flat, Surface Plate , Electronics probe	Upto 250 mm	0.3 μm
129	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Accessories - Parallelism	Using Optical Flat, Surface Plate , Electronics probe	Upto 250 mm	2.6μm
130	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block- Slip gauges	Using Gauge Block set (K-Grade)& Gauge Block Calibrator	0.5 mm to 10 mm	0.13μm
131	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block- Slip gauges	Using Gauge Block set (K-Grade)& Gauge Block Calibrator	25 mm to 50 mm	0.27μm
132	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block- Slip gauges	Using Gauge Block set (K-Grade)& Gauge Block Calibrator	50 mm to 100 mm	0.49μm
133	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Blocks- Slip gauges	Using Gauge Block set (K-Grade)& Gauge Block Calibrator	10 mm to 25 mm	0.16μm
134	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Flat Type A - Flatness	Using Master Optical Flat, Monochromatic light source	UPTO 50 mm	0.11μm





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135	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Parallel - Flatness , Parallelism	Using Master Flat, Monochromatic light source , Two Probe comparator	Upto 50 mm	0.11µm
136	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roughness Master ( Ra value)	Using Surface Roughness Tester	Ra-2.92 µm	0.18µm
137	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Spline Plug . Ring Gauge - Diameter over pin	Using Length measuring M/C+Measuring Pins	10 mm to 100 mm	3.50µm
138	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester(Portable) ( Ra = 3.20 ,2.9 value) Two Point only	Using Roughness Master	Ra-2.94 ,3.20 µm	0.42µm
139	MECHANICAL-DUROMETER	Rubber Hardness Tester 100 shore A , LC=1 shore A	Using Weighing balance having d=0.1 g (for Spring Balance)	Upto 100 Shore A	1.5Shore A
140	MECHANICAL-DUROMETER	Rubber Hardness Tester 100 shore D , LC=1 shore D	Using Weighing balance having d=0.1 g (for Spring Balance)	Upto 100 shore D	1.2shore D
141	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull gauge/ Force gauge (In Push Pull mode)	Using Dead weight and loading hangers as per VDI/VDE-2624	5 N to 1000 N PULL Mode 500 N PUSH Mode	1N



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142	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure gauges/ Switches /Transmitters/ Transducers	Using Digital Pressure Gauge with Hydraulic comparator by comparison method , as per DKDR6-1	0 to 1000 bar	3.79bar
143	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure gauges/ Switches /Transmitters/ Transducers	Using Digital Pressure Gauge with Hydraulic comparator by comparison method , as per DKDR6-1	0 to 200 bar	1.25bar
144	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure gauges/ Switches /Transmitters/ Transducers	Using Digital Pressure Gauge with Hydraulic comparator by comparison method , as per DKDR6-1	0 to 30 bar	0.35bar
145	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure gauges/ Switches /Transmitters/ Transducers	Using Test Gauge with Hydraulic comparator by comparison method , as per DKDR6-1	0 to 4 bar	0.29bar
146	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure-Vacuum gauges	Using Digital pressure gauge/ Vacuum pump By comparison method as per DKDR6-1	(-) 0.8 bar to 0	0.012bar



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147	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure gauges/ Switches /Transmitters/ Transducers	Using Digital Pressure Gauge with Pneumatic comparator by comparison method , as per DKDR6-1	0 to 30 bar	0.35bar
148	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure gauges/ Switches /Transmitters/ Transducers/Magnetic gauge/ Manometers	Using Digital manometer by comparison method , as per DKDR6-1	0 to 0.34 bar	0.016bar
149	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type 1 , Class B,C,D,E & Type 2, Class A,B,D,E	Using Torque transducers and indicator , Using Digital torque wrench calibration system as per ISO 6789:2017	1 Nm to 10 Nm	3.45%
150	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type 1, Class B,C,D,E & Type 2, Class A,B,D,E	Using Torque transducers and indicator , Using Digital torque wrench calibration system as per ISO 6789:2017	10 Nm to 1000 Nm	1.89%





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151	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator/Torque Transducers/Torque meter /Torque Tester , Class 0.5 and coarser	Using Dead weight torque calibration system consisting of lever arm and Dead weight as per BS-7882:2017	10 Nm to 50 Nm	0.10%
152	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator/Torque Transducers/Torque meter /Torque Tester , Class 0.5 and coarser	Using Dead weight torque calibration system consisting of lever arm and Dead weight as per BS-7882:2017	2 Nm to 10 Nm	0.10%
153	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator/Torque Transducers/Torque meter /Torque Tester , Class 0.5 and coarser	Using Dead weight torque calibration system consisting of lever arm and Dead weight as per BS-7882:2017	200 Nm to 1000 Nm	0.10%
154	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator/Torque Transducers/Torque meter /Torque Tester , Class 0.5 and coarser	Using Dead weight torque calibration system consisting of lever arm and Dead weight as per BS-7882:2017	50 Nm to 200 Nm	0.10%
155	MECHANICAL-VOLUME	Glass ware (Pipettes/ Burette/Measuring cylinder/Volumetric flask/ Beaker/Jar/Conical flask)	Using Weighing balance of LC=0.01mg and distilled water of known density as per ISO 4787,ISO /TR20461	1 ml to 10 ml	0.03ml



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156	MECHANICAL-VOLUME	Glass ware (Pipettes/ Burette/Measuring cylinder/Volumetric flask/ Beaker/Jar/Conical flask)	Using Weighing balance of LC=0.1mg and distilled water of known density as per ISO 4787,ISO /TR20461	10 ml to 100 ml	1.2ml
157	MECHANICAL-VOLUME	Glass ware (Pipettes/ Burette/Measuring cylinder/Volumetric flask/ Beaker/Jar/Conical flask)	Using Weighing balance of LC=1mg and distilled water of known density as per ISO 4787,ISO /TR20461	100 ml to 500 ml	2.90ml
158	MECHANICAL-VOLUME	Glass ware (Pipettes/ Burette/Measuring cylinder/Volumetric flask/ Beaker/Jar/Conical flask)	Using Weighing balance of LC=10mg and distilled water of known density as per ISO 4787,ISO /TR20461	1000 ml to 2000 ml	11.55ml
159	MECHANICAL-VOLUME	Glass ware (Pipettes/ Burette/Measuring cylinder/Volumetric flask/ Beaker/Jar/Conical flask)	Using Weighing balance of LC=100mg and distilled water of known density as per ISO 4787,ISO /TR20461	2000 ml to 10000 ml	50.25ml



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160	MECHANICAL-VOLUME	Glass ware (Pipettes/ Burette/Measuring cylinder/Volumetric flask/ Beaker/Jar/Conical flask)	Using Weighing balance of LC=10mg and distilled water of known density as per ISO 4787,ISO /TR20461	500 ml to 1000 ml	5.77ml
161	MECHANICAL-VOLUME	Micro-Pipettes	Using weighing balance LC=0.01 mg and distilled water of known density as per ISO 8655-6, ISO/TR 20461	100 µl to 1000 µl	6µl
162	MECHANICAL-VOLUME	Micro-Pipettes	Using weighing balance LC=0.01 mg and distilled water of known density as per ISO 8655-6, ISO/TR 20461	1000 µl to 5000 µl	9.4µl
163	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance 0 to 100 kg , d= 100 g	Using F1 class weights as per OIML R-76	0 to 100 kg	80g
164	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance 0 to 50 kg , d= 10 g	Using F1& M1 class weights as per OIML R-76	0 to 50 kg	8g





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165	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances 0 to 200 kg ,Readability d= 20 g (Accuracy class =Ordinary -1111)	Using Standard weights F1 , M1 class	0 to 200 kg	19g
166	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances 1 mg to 42 g , Readability d=0.01mg (Accuracy class =Special (1))	Using Standard weights E1 class (1 mg to 200 g)	1 mg to 42 g	0.06mg
167	MECHANICAL-WEIGHTS	Calibration of weight of Accuracy Class M1 and coarser -5kg	Using standard weights of class F1, weighing balance with LC=0.1g	5 kg	115mg
168	MECHANICAL-WEIGHTS	Calibration of weight of M1 Class and coarser-1 kg	Using standard weights of class F1, weighing balance with LC=10mg	1 kg	12mg
169	MECHANICAL-WEIGHTS	Calibration of weights Class M1 and coarser -50 kg	Using standard weights of class F1, weighing balance with LC=1g	50 kg	1.0g
170	MECHANICAL-WEIGHTS	Calibration of weights of Accuracy Class M1 and coarser -10 kg	Using standard weights of class F1, weighing balance with LC=0.1g	10 kg	100mg



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171	MECHANICAL-WEIGHTS	Weight of F1 class and coarser-100mg	Using standard weights of E1 class & weighing balance of LC=0.01mg.	100 mg	0.01mg
172	MECHANICAL-WEIGHTS	Weight of F1 class and coarser-200mg	Using standard weights of E1 class & weighing balance of LC=0.01mg.	200 mg	0.01mg
173	MECHANICAL-WEIGHTS	Weight of F1 class and coarser-20mg	Using standard weights of E1 class & weighing balance of LC=0.01mg.	20 mg	0.01mg
174	MECHANICAL-WEIGHTS	Weight of F1 class and coarser-50mg	Using standard weights of E1 class & weighing balance of LC=0.01mg.	50 mg	0.01mg
175	MECHANICAL-WEIGHTS	Weight of F1 class and coarser=1 g	Using standard weights of E1 class & weighing balance of LC=0.01mg.	1 g	0.03mg
176	MECHANICAL-WEIGHTS	Weight of F1 class and coarser=10 g	Using standard weights of E1 class & weighing balance of LC=0.01mg.	10 g	0.01mg
177	MECHANICAL-WEIGHTS	Weight of F1 class and coarser=100 g	Using standard weights of E1 class & weighing balance of LC=0.1mg.	100 g	0.09mg



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178	MECHANICAL-WEIGHTS	Weight of F1 class and coarser=2 g	Using standard weights of E1 class & weighing balance of LC=0.01mg.	2 g	0.02mg
179	MECHANICAL-WEIGHTS	Weight of F1 class and coarser=20 g	Using standard weights of E1 class & weighing balance of LC=0.01mg.	20 g	0.11mg
180	MECHANICAL-WEIGHTS	Weight of F1 class and coarser=200 g	Using standard weights of E1 class & weighing balance of LC=0.1mg.	200 g	0.15mg
181	MECHANICAL-WEIGHTS	Weight of F1 class and coarser=5 g	Using standard weights of E1 class & weighing balance of LC=0.01mg.	5 g	0.01mg
182	MECHANICAL-WEIGHTS	Weight of F1 class and coarser=50 g	Using standard weights of E1 class & weighing balance of LC=0.1mg.	50 g	0.14mg
183	MECHANICAL-WEIGHTS	Weight of F1 class and coarser=500 mg	Using standard weights of E1 class & weighing balance of LC=0.01mg.	500 mg	0.09mg
184	MECHANICAL-WEIGHTS	Weight of F2 class and coarser=10mg	Using standard weights of E1 class & weighing balance of LC=0.01mg.	10 mg	0.01mg





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185	MECHANICAL-WEIGHTS	Weight of F2 class and coarser-1mg	Using standard weights of E1 class & weighing balance of LC=0.01mg.	1 mg	0.01mg
186	MECHANICAL-WEIGHTS	Weight of F2 class and coarser-2mg	Using standard weights of E1 class & weighing balance of LC=0.01mg.	2 mg	0.01mg
187	MECHANICAL-WEIGHTS	Weight of F2 class and coarser-5mg	Using standard weights of E1 class & weighing balance of LC=0.01mg.	5 mg	0.01mg
188	MECHANICAL-WEIGHTS	Weight of M1 class and coarser=2kg	Using standard weights of F1 class & weighing balance of LC=0.01g.	2 kg	10mg
189	MECHANICAL-WEIGHTS	Weight of M1 class and coarser=500 g	Using standard weights of F1 class & weighing balance of LC=0.01g.	500 g	2mg
190	OPTICAL-OPTICAL	LUX/LIGHT METER	Illuminance/ /Lux meter	1 lx to 10000 lx	4.0%
191	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity controller/ Indicator with sensor/ Thermo Hygrometer	Using Digital Temp RH indicator with sensor & Humidity chamber	30 % RH@25°C to 90%RH@25°C	2.1 %RH @25°C



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192	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature of Humidity controller/ Indicator with sensor/ Thermo Hygrometer	Using Digital Temp/ RH Indicator with sensor & Humidity Chamber (By Comparison Method)	15 °c to 45 °c	1.2°c
193	THERMAL-TEMPERATURE	RTD / Thermocouples With or without Controller / Indicator/ Data Logger / Recorder, Temperature Transmitter, Temperature Gauge, Glass Thermometer, Digital Thermometer	Using RTD with indicator Oil bath (By Comparison Method)	> 50 °c to 200 °c	0.7°c
194	THERMAL-TEMPERATURE	RTD/ Thermocouples With or without Controller / Indicator/ Data Logger / Recorder, Temperature Transmitter, Temperature Gauge, Digital Thermometer	Using R type thermocouple with indicator /Dry Block Furnace (By Comparison Method)	> 200 °c to 600 °c	1.9°c



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195	THERMAL-TEMPERATURE	RTD/ Thermocouples With or without Controller / Indicator/ Data Logger / Recorder, Temperature Transmitter, Temperature Gauge, Glass Thermometer, Digital Thermometer	Using RTD with indicator/ methanol liquid bath/oil bath - by comparison method	-30 °c to 50 °c	0.4°C
196	THERMAL-TEMPERATURE	Thermocouples With or without Controller / Indicator/ Data Logger / Recorder, Temperature Transmitter, Temperature Gauge,	Using R , Type thermocouple with indicator( Dry block furnace )-By comparison method	> 600 °C to 1200 °C	2.4°C





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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage at 50Hz	Using High voltage probe ( Fluke) with DMM /Direct Method	1 kV to 5 kV	1.81 % to 0.67 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage at 50Hz	Using High voltage probe ( Fluke) with DMM /Direct Method	5 kV to 10 kV	0.93 % to 2.54 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Energy meter	Using Accu-check Calibrator	1 x240V, 3X240 V. 50Hz Ba to Vref= 240 V, 50 Hz (3 p4w	0.30%
4	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High voltage probe ( Fluke) with DMM /Direct Method	1 kV to 5 kV	4.37 % to 2.76 %
5	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High voltage probe ( Fluke) with DMM /Direct Method	5 kV to 10 kV	2.76%



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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type	Using Universal calibrator by simulation method	-100 °C to 750 °C	1.33°C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type	Using Universal calibrator by simulation method	-200 °C to 1350 °C	1.2°C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	PT-100/ RTD	Using Universal calibration by simulation method	50 °C to 490 °C	1.30°C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type	Using universal calibrator by simulation method	200 °C to 1700 °C	1.63°C
10	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Time Interval	Using Time calibrator / Direct Method:	1 s to 999 s	6.62 % to 0.07 %



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11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit	Using Setting Ring gauge	Upto +/-100 $\mu$ m	2.1 $\mu$ m
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Coaxiality / Run out , Parallelism	Using Test Mandrel ( Taper / Straight) , Lever dial	Upto 3000 mm	8.3 $\mu$ m
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gear Rolling Tester	Using Gauge Block ( 0- Grade)+ Plunger Dial	Upto 500 mm	3.7 $\mu$ m
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear / Electronics-2 D Height Gauge (LC=0.0001 mm)	Using Length Bar, Gauge Block ( 0 Grade) , Surface plate, Master Cylinder	0 to 600 mm	5.90 $\mu$ m
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope (LC 0.1/0.01 mm)	Using Glass scale	0 to 1 mm	7.9 $\mu$ m





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16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge ( I-Section) - Straightness, Parallelism	Using Electronics Level	Upto 6000 X 50 mm	0.7 sqrt L+W/125 ( L & W is in mm)µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate , Comparator Stand ( Granite & Cast Iron) -Flatness Deviation	Using Electronics level	Up to 6000 X 6000 mm	0.7 sqrt L+W /125 (L ,W is in mm)µm
18	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial calibration Tester LC=0.001 mm	Using Electronics Probe , Gauge Block (0-Grade)	0 to 25 mm	2.15µm
19	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronics Probe LC= 0.01/0.1 micron	Using Gauge Block, Slip Gauges ( 0-Grade) . Surface Plate	0 to 25 mm	1.33µm
20	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Comparators LC=0.01 micron	Using Gauge Block set -Slip gauges (K-Grade) ,	0 to 100 mm	0.10µm
21	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angle , LC=1 sec.	Using Angle gauges	0 degree to 360 degree	6.1sec.



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22	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear . LC=0.001 mm	Using Glass scale	0 to 200 mm	1.90µm
23	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Gauge Block (0-Grade) , Digital Caliper	10 X % to 100X %	0.02%
24	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal / Length measuring M/C , LC=0.1micron	Using Gauge Block (K- Grade)	0 to 100 mm	0.33µm
25	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Standard Hardness Block / Indirect method as per IS 1586 PART 1 to 3 : 2018	HRA	1.0 HRA
26	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Standard Hardness Block / Indirect method as per IS 1586 PART 1 to 3 : 2018	HRBW	1.0 HRBW
27	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Standard Hardness Block/ Indirect method as per IS 1586 PART 1 to 3 : 2018	HRC	1.0 HRC



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28	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Tester - HBW 10/3000	Using Hardness Blocks IS1500-2013-2	HBW 10/3000	2.0%
29	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Vickers Hardness Tester -HV 5	Using Hardness Blocks	HV-5 HV	4.2%
30	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure gauges/ Switches /Transmitters/ Transducers	Using Digital Pressure Gauge with Hydraulic comparator by comparison method , as per DKDR6-1	0 to 1000 bar	3.79bar
31	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure gauges/ Switches /Transmitters/ Transducers	Using Digital Pressure Gauge with Hydraulic comparator by comparison method , as per DKDR6-1	0 to 200 bar	1.25bar
32	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure gauges/ Switches /Transmitters/ Transducers	Using Digital Pressure Gauge with Hydraulic comparator by comparison method , as per DKDR6-1	0 to 30 bar	0.35bar





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33	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure gauges/ Switches /Transmitters/ Transducers	Using Test Gauge with Hydraulic comparator by comparison method , as per DKDR6-1	0 to 4 bar	0.29bar
34	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure-Vacuum gauges	Using Digital pressure gauge/ Vacuum pump By comparison method as per DKDR6-1	(-) 0.8 bar to 0	0.012bar
35	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure gauges/ Switches /Transmitters/ Transducers	Using Digital Pressure Gauge with Pneumatic comparator by comparison method , as per DKDR6-1	0 to 30 bar	0.35bar
36	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure gauges/ Switches /Transmitters/ Transducers/Magnetic gauge/ Manometers	Using Digital manometer by comparison method , as per DKDR6-1	0 to 0.34 bar	0.016bar
37	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing M/C - Compression Mode	Using Force proving instruments . Load cell	5 kN to 1000 kN	0.77%



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38	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing M/C -Tension Mode	Using Load cell.	1 kN to 10 kN	0.77%
39	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances 0 to 1000 g ,Readability d= 1 mg (Accuracy class =Ordinary -1111)	Using Standard weights F1 class	0 to 1000 g	3.4mg
40	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances 0 to 200 kg ,Readability d= 20 g (Accuracy class =Ordinary -1111)	Using Standard weights F1 , M1 class	0 to 200 kg	19g
41	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances 0 to 3200 g ,Readability d= 10 mg (Accuracy class =Ordinary -1111)	Using Standard weights of F1 class	0 to 3200 g	12.60mg
42	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances 0 to 50 kg , Readability d= 1 g (Accuracy class =High(11)	Using Standard weights F1 class	0 to 50 kg	1.4g



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43	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances 0 to 1200 g , Readability d= 10mg (Accuracy class =High(11))	Using Standard weights F1 class	0 to 1200 g	12.6mg
44	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances 0 to 15 kg ,Readability d= 0.1 g (Accuracy class =Ordinary -1111)	Using Standard weights F1 class	0 to 15 kg	0.20g
45	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances > 42 g to 200 g , Readability, d=0.1 mg , Accuracy class-Special-1	Using Standard weights E1 class (1 mg to 200 g)	42 g to 200 g	0.13mg
46	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances 1 mg to 42 g , Readability d=0.01mg (Accuracy class =Special (1))	Using Standard weights E1 class (1 mg to 200 g)	1 mg to 42 g	0.06mg
47	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber/ Environmental Chamber	Using Digital Hygrometer (Single Position Calibration)	30% RH @25°C to 90% RH @25°C	2.8% RH @25°C
48	THERMAL-TEMPERATURE	Dry block Furnace / Muffle / Industrial Furnace-Single Position	Using R , Type Thermocouple with Indicator- Single Position	200 °C to 1200 °C	2.4°C





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49	THERMAL-TEMPERATURE	Dry Block Furnace/ Muffle Furnace/ Industrial Furnace -Thermal Mapping -9 Point ( Multi position)	Using Data logger with N-Type Thermocouple -9 point.	> 600 °C to 1200 °C	5.8°C
50	THERMAL-TEMPERATURE	Dry Block Furnace/ Muffle Furnace/ Industrial Furnace -Thermal Mapping -9 Point ( Multi position)	Using Data Logger With N Type Thermocouple-9 Point	>300 °C to 600 °C	3.8°C
51	THERMAL-TEMPERATURE	Environment Chamber, Furnaces, Freezers, Oven, Vacuum Oven, BOD Incubator, Incubator, Centrifuge Chamber, Cold Room, Hot Room, Autoclave, Aging Oven-Single Position	Using PT-100X1 Simplex , 4 Wire RTD sensor with indicator-Single Position	(-)-80 °C to 300 °C	1.3°C



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52	THERMAL-TEMPERATURE	Environment Chamber, Furnaces, Freezers, Oven, Vacuum Oven, BOD Incubator, Incubator, Centrifuge Chamber, Cold Room, Hot Room, Autoclave, Aging Oven-Thermal Mapping 9 Points	Data logger with RTD sensors (Multi position -9 Points)	-30 °C to 300 °C	1.3°C
53	THERMAL-TEMPERATURE	RTD / Thermocouples With or without Controller / Indicator/ Data Logger / Recorder, Temperature Transmitter, Temperature Gauge, Glass Thermometer, Digital Thermometer	Using RTD with indicator Oil bath (By Comparison Method)	> 50 °c to 200 °c	0.7°C
54	THERMAL-TEMPERATURE	RTD/ Thermocouples With or without Controller / Indicator/ Data Logger / Recorder, Temperature Transmitter, Temperature Gauge, Digital Thermometer	Using R type thermocouple with indicator /Dry Block Furnace (By Comparison Method)	> 200 °c to 600 °c	1.9°C



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55	THERMAL-TEMPERATURE	RTD/ Thermocouples With or without Controller / Indicator/ Data Logger / Recorder, Temperature Transmitter, Temperature Gauge, Glass Thermometer, Digital Thermometer	Using RTD with indicator/ methanol liquid bath/oil bath - by comparison method	-30 °c to 50 °c	0.4°C
56	THERMAL-TEMPERATURE	Thermocouples With or without Controller / Indicator/ Data Logger / Recorder, Temperature Transmitter, Temperature Gauge,	Using R , Type thermocouple with indicator( Dry block furnace )-By comparison method	> 600 °C to 1200 °C	2.4°C

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