



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

TESTNCAL LABORATORY

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-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2055

Issue Date: 21/07/2022

Valid Until: 20/07/2024

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

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

Name of Legal Identity : Testing and Calibration India OPC Private Limited

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

1 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	1 A to 10 A	0.2 % to 0.3 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	1 mA to 400 mA	0.2 % to 0.3 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	10 µA to 100 µA	0.9 % to 0.7 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	100 µA to 1mA	0.7 % to 0.2 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

2 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	400 mA to 1 A	0.3 % to 0.2 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 50Hz	Using LCR-Q Meter by Direct Method	1 ohm to 10 k ohm	1.04 % to 1.01 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	1 mV to 100 mV	4.8 % to 0.8 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	1 V to 100 V	0.1%
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	100 mV to 1 V	0.8 % to 0.1 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

3 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage@ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	100 V to 1000 V	0.1%
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance @100 kHz	Using LCR-Q Meter by Direct Method	1 µF to 100 µF	4.13 % to 2.01 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Inductance @1 kHz	Using LCR-Q Meter by Direct Method	1 mH to 10 H	2.16 % to 0.68 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC High Current @ 50Hz	Using Multi Function Calibrator, 5½ Digit with Current Coil by Direct Method	100 A to 900 A	3.55%
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance (2-Wire)	Using High Resistance Box, by Direct Method	200 M ohm to 200 G ohm	1.42 % to 5.15 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

4 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance (4-Wire)	Using Low Resistance Box, by Direct Method	0.001 ohm to 10 ohm	2.4%
16	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct/ Comparison Method	1 A to 10 A	0.08 % to 0.26 %
17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct/ Comparison Method	1 mA to 400 mA	0.21 % to 0.07 %
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct/ Comparison Method	10 µA to 100 µA	1.21 % to 0.1 %
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct/ Comparison Method	100µA to 1mA	0.1 % to 0.21 %
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct/ Comparison Method	400 mA to 1 A	0.07 % to 0.08 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

5 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct/ Comparison Method	1 mV to 100 mV	0.40 % to 0.01 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct/ Comparison Method	100 mV to 1000 V	0.01 % to 0.21%
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit DMM by Direct/ Comparison Method	1 ohm to 100 ohm	1.3 % to 0.41 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digit DMM by Direct/ Comparison Method	1 M ohm to 100 M ohm	0.31% to 0.095%
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digit DMM by Direct/ Comparison Method	100 ohm to 1 M ohm	0.41% to 0.31%
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using Multi Function Calibrator, 5½ Digit with Current Coil by Direct Method	100 A to 900 A	2.35 % to 1.74 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

6 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
27	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple Indicator Controller/ Recorder	Using Process Calibrator by Simulation Method	-200 °C to 1050 °C	1.08°C
28	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple Indicator Controller/ Recorder	Using Process Calibrator by Simulation Method	0 °C to 1350 °C	1.4°C
29	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple Indicator Controller/ Recorder	Using Process Calibrator by Simulation Method	0 °C to 1750 °C	1.42°C
30	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100) Indicator Controller/ Recorder	Using Process Calibrator by Simulation Method	-200 °C to 700 °C	1.4°C
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple Indicator controller/Recorder	Using Process Calibrator by Simulation Method	100 °C to 1000 °C	1.79 °C
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple Indicator controller/Recorder	Using Process Calibrator by Simulation Method	-200 °C to 1050 °C	1.44°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

7 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple Indicator controller/Recorder	Using Process Calibrator by Simulation Method	0 °C to 1350 °C	1.19°C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100) Indicator controller/Recorder	Using Process Calibrator by Simulation Method	-200 °C to 700 °C	1.38°C
35	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit DMM by Direct/ Comparison Method	10 Hz to 1 kHz	0.82 % to 0.06 %
36	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Calibrator/Digital Time Interval Meter by Comparison Method	1 s to 3600 s	0.03 s to 5.6 s
37	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Stroboscope, Centrifuge (Non Contact Type) L.C:- 1 rpm	Using Digital Tachometer by Direct Method	1000 rpm to 35000 rpm	0.19%
38	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Stroboscope, Centrifuge (Non Contact Type) LC:- 0.1 rpm	Using Digital Tachometer by Direct Method	10 rpm to 1000 rpm	0.45%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

8 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
39	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type) L.C: 1 rpm	Using Digital Tachometer with rpm source by Comparison Method	1000 rpm to 35000 rpm	0.19 %
40	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type) L.C:- 0.1 rpm	Using Digital Tachometer with rpm source by Comparison Method	10 rpm to 1000 rpm	0.45 %
41	MECHANICAL-ACOUSTICS	Sound Level Meter @1 kHz	Using Sound Level Calibrator by Comparison Method	94 & 114 dB	1.34dB
42	MECHANICAL-DENSITY AND VISCOSITY	Hydrometers , Specific Gravity Hydrometers, Lactometers, Brix Hydrometers, Soil Hydrometer	Using Standard Hydrometer & Liquids of known Densities (IS 3104-1982) Part 2	0.650 g/ml to 1.200 g/ml	0.0011g/ml
43	MECHANICAL-DENSITY AND VISCOSITY	Hydrometers , Specific Gravity Hydrometers, Lactometers, Brix Hydrometers, Soil Hydrometer	Using Standard Hydrometer & Liquids of known Densities (IS 3104-1982) Part 2	1.200 g/ml to 1.800 g/ml	0.0011g/ml
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Digital Vernier Caliper , by comparison method	1 mm to 150 mm	13µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

9 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge L.C: 0.01 mm	Using "0" Grade Gauge Block Set & accessories by Comparison method	0 to 150 mm	11.6µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micro Meter L.C: 0.01 mm	Using "0" Grade Gauge Block Set & accessories by Comparison method	0 to 150 mm	11.6µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C: 0.01 mm	Using "0" Grade Gauge Block Set & accessories by Comparison method	0 to 25 mm	8.0µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Digital Vernier Caliper , by comparison method	1 mm to 100 mm	13.5µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micro Meter LC: 0.001mm	Using "0" Grade Gauge Block Set & accessories by Comparison method	0 to 100 mm	2.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

10 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micro Meter LC: 0.01mm	Using "0" Grade Gauge Block Set & accessories by Comparison method	100 mm to 300 mm	9.0µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital External Micrometer by Comparison method	0 to 2 mm	11.0µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Digital Vernier Caliper, by comparison method	1 mm to 100 mm	13.5µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge LC: 0.01mm	Using "0" Grade Gauge Block Set & accessories ,Surface plate by Comparison method	0 to 300 mm	12µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Metallurgical Microscope Magnification	Using Glass Scale, Eye Piece by Comparison Method	5X, to 10X, 20X, 40X, 50X, to 60	0.50%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

11 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using "0" Grade Gauge Block Set & accessories by Comparison method	3 mm to 100 mm	3.0µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Vernier Caliper , by comparison method	4.75 mm to 150 mm	13.5µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier/Dial/Digital Calipers LC: 0.01mm	Using "0" Grade Gauge Block Set & accessories by Comparison method	0 to 300 mm	10µm
58	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Digital / Analog Push Pull Gauge, Force Gauge	Using Newtonian Weights & Frame Fixture & Hangers on VDI/VDE 2624-2.1	1 N to 100 N	0.61%
59	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Digital/ Analog Push Pull Gauge, Force Gauge	Using Newtonian Weights & Frame Fixture & Hangers on VDI/VDE 2624-2.1	100 N to 1000 N	0.51%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

12 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
60	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Dial / Digital Pressure Gauge, Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge & Pressure Comparator, DMM by Comparison Method as per DKD-R6-1	>70 bar to 700 bar	0.42bar
61	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Dial / Digital Pressure Gauge, Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge & Pressure Comparator, DMM by Comparison Method as per DKD-R6-1	0 bar to 70 bar	0.09bar
62	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Dial / Digital Pressure Gauge, Pressure Transmitter	Using Digital Pressure Gauge & Pressure Comparator, DMM by Comparison Method as per DKD-R6-1	0 bar to 10 bar	0.011bar
63	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Transmitter, Gauge (Digital / Dial) Vacuum Gauge, Vacuum Switch	Using Digital Pressure Gauge and Vacuum Comparator by Comparison Method as per DKD-R6-2	(-) 0.95 bar to 0 bar	0.022bar



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

13 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
64	MECHANICAL-VOLUME	Glassware, Glass Pipette, Burette, Measuring Cylinder, Volume Flask, Beakers, Measuring Dispenser	Using Standard Weights of Accuracy class E2 and Precision Balances (d1=0.01mg) with and Distilled Water of known Density by Gravimetric Method	1 ml to 25 ml	0.012 ml
65	MECHANICAL-VOLUME	Glassware, Glass Pipette, Burette, Measuring Cylinder, Volume Flask, Beakers, Measuring Dispenser	Using Standard Weights of Accuracy class E2 and Precision Balance (d1=0.01mg, d2=0.1mg)s with and Distilled Water of known Density by Gravimetric Method	25 ml to 150 ml	0.012 ml
66	MECHANICAL-VOLUME	Micropipette	Using Standard Weights of Accuracy class E2 and Precision Balances (d=0.01mg) with and Distilled Water of known Density by Gravimetric Method	10 µl to 100 µl	0.3µl



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

14 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
67	MECHANICAL-VOLUME	Micropipette	Using Standard Weights of Accuracy class E2 and Precision Balances (d=0.01mg) with and Distilled Water of known Density by Gravimetric Method	100 µl to 10 ml	9µl
68	MECHANICAL-VOLUME	Pipettes / Burets / Measuring Flasks / Cylinders/ Beakers , Volumetric Measures /Glassware	Using Standard Weights of Accuracy class E2 and Precision Balances (d1=0.1mg & d2=1mg) with and Distilled Water of known Density by Gravimetric Method	150 ml to 1000 ml	1ml
69	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 0.1 mg & Coarser Class II	Using Standard Weights of Accuracy Class F1 as per OIML R 76-1	200 g to 5000 g	0.48g
70	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 0.1mg & Coarser Class I	Using Standard Weights of Accuracy Class E2 as per OIML R 76-1	1 mg to 80 g	0.44mg
71	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 0.1mg & Coarser Class I	Using Standard Weights of Accuracy Class E2 as per OIML R 76-1	80 g to 200 g	0.64mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

15 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
72	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 10g & Coarser Class VI	Using Standard Weights of Accuracy Class F1 and F2 as per OIML R 76-1	10 kg to 100 kg	58mg
73	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 1g & Coarser Class III	Using Standard Weights of Accuracy Class F1 & F2 as per OIML R-76	1 kg to 10 kg	71mg
74	MECHANICAL-WEIGHTS	Weight (Accuracy class M1 & coarser)	Using F2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.1g) by substitution method (ABBA cycle) as per OIML R-111: 2004	10 kg	100mg
75	MECHANICAL-WEIGHTS	Weights (Accuracy class F1 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	1 g	0.03mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

16 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
76	MECHANICAL-WEIGHTS	Weights (Accuracy class F1 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability:0.01mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	100 g	0.15mg
77	MECHANICAL-WEIGHTS	Weights (Accuracy class F1 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	2 g	0.03mg
78	MECHANICAL-WEIGHTS	Weights (Accuracy class F1 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	20 g	0.04mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

17 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
79	MECHANICAL-WEIGHTS	Weights (Accuracy class F1 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	200 g	0.27mg
80	MECHANICAL-WEIGHTS	Weights (Accuracy class F1 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	5 g	0.03mg
81	MECHANICAL-WEIGHTS	Weights (Accuracy class F1 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	50 g	0.10mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

18 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
82	MECHANICAL-WEIGHTS	Weights (Accuracy class F1 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	10 g	0.04 mg
83	MECHANICAL-WEIGHTS	Weights (Accuracy class F2 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01) by substitution method (ABBA cycle) as per OIML R-111: 2004	100 mg	0.03mg
84	MECHANICAL-WEIGHTS	Weights (Accuracy class F2 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	20 mg	0.03mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

19 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
85	MECHANICAL-WEIGHTS	Weights (Accuracy class F2 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	200 mg	0.03mg
86	MECHANICAL-WEIGHTS	Weights (Accuracy class F2 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	50 mg	0.03mg
87	MECHANICAL-WEIGHTS	Weights (Accuracy class F2 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	500 mg	0.03mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

20 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
88	MECHANICAL-WEIGHTS	Weights (Accuracy class F2 & coarser)	Using F1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.001 g) by substitution method (ABBA cycle) as per OIML R-111-1: 2004	500 g	2mg
89	MECHANICAL-WEIGHTS	Weights (Accuracy class M1 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	1 mg	0.03mg
90	MECHANICAL-WEIGHTS	Weights (Accuracy class M1 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	10 mg	0.03mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

21 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
91	MECHANICAL-WEIGHTS	Weights (Accuracy class M1 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	2 mg	0.03mg
92	MECHANICAL-WEIGHTS	Weights (Accuracy class M1 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	5 mg	0.03mg
93	MECHANICAL-WEIGHTS	Weights (Accuracy class M1 & coarser)	Using F1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.001 g) by substitution method (ABBA cycle) as per OIML R-111-1: 2004	1 kg	26 mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

22 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
94	MECHANICAL-WEIGHTS	Weights (Accuracy class M1 & coarser)	Using F1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01g) by substitution method (ABBA cycle) as per OIML R-111-1: 2004	2 kg	26mg
95	MECHANICAL-WEIGHTS	Weights (Accuracy class M1 & coarser)	Using F2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.1g) by substitution method (ABBA cycle) as per OIML R-111-1: 2004	20 kg	80mg
96	MECHANICAL-WEIGHTS	Weights (Accuracy class M1 & coarser)	Using F2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 g) by substitution method (ABBA cycle) as per OIML R-111-1: 2004	5 kg	26mg
97	THERMAL-TEMPERATURE	Liquid in Glass Thermometer/Digital Thermometer	Using 4 wire RTD with Liquid bath by Comparison method	-25 °C to 250 °C	0.74°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

23 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
98	THERMAL-TEMPERATURE	RTD, Thermocouple with or without indicator, Digital Thermometer, Transmitter, Data Logger	Using 4 wire RTD with 6½ DMM, Dry Block Bath and Liquid Bath Calibrator by Comparison Method	-50 °C to 250 °C	1.78°C
99	THERMAL-TEMPERATURE	Thermocouple with or without indicator, Digital Thermometer, Transmitter, Data Logger	Using S Type Thermocouple and Dry Block Bath by Comparison Method	250 °C to 600 °C	1.78 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

24 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	1 mA to 400 mA	0.2 % to 0.3 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	10 µA to 100 µA	0.9 % to 0.7 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	100 µA to 1mA	0.7 % to 0.2 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	400 mA to 1 A	0.3 % to 0.2 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

25 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	>1 kV to 5 kV	5.86%
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 50Hz	Using LCR-Q Meter by Direct Method	1 ohm to 10 k ohm	1.04 % to 1.01 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	1 mV to 100 mV	4.8 % to 0.8 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	1 V to 100 V	0.1%
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	100 mV to 1 V	0.8 % to 0.1 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

26 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage@ 50Hz	Using 6½ Digit DMM by Direct/ Comparison Method	100 V to 1000 V	0.1%
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @100 kHz	Using LCR-Q Meter by Direct Method	1 µF to 100 µF	4.13 % to 2.01 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @1 kHz	Using LCR-Q Meter by Direct Method	1 mH to 10 H	2.16 % to 0.68 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct/ Comparison Method	1 A to 10 A	0.08 % to 0.26 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct/ Comparison Method	1 mA to 400 mA	0.21 % to 0.07 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

27 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct/ Comparison Method	10 µA to 100 µA	1.21 % to 0.1 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct/ Comparison Method	100µA to 1mA	0.1 % to 0.21 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct/ Comparison Method	400 mA to 1 A	0.07 % to 0.08 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct/ Comparison Method	1 mV to 100 mV	0.40 % to 0.01 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct/ Comparison Method	100 mV to 1000 V	0.01 % to 0.21%
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit DMM by Direct/ Comparison Method	1 ohm to 100 ohm	1.3 % to 0.41 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

28 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digit DMM by Direct/ Comparison Method	1 M ohm to 100 M ohm	0.31% to 0.095%
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digit DMM by Direct/ Comparison Method	100 M ohm to 1 G ohm	0.095 % to 1.89 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digit DMM by Direct/ Comparison Method	100 ohm to 1 M ohm	0.41% to 0.31%
24	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple Indicator Controller/ Recorder	Using Process Calibrator by Simulation Method	-200 °C to 1050 °C	1.08°C
25	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple Indicator Controller/ Recorder	Using Process Calibrator by Simulation Method	0 °C to 1350 °C	1.4°C
26	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple Indicator Controller/ Recorder	Using Process Calibrator by Simulation Method	0 °C to 1750 °C	1.42°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNICAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

29 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
27	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100) Indicator Controller/ Recorder	Using Process Calibrator by Simulation Method	-200 °C to 700 °C	1.4°C
28	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple Indicator controller/Recorder	Using Process Calibrator by Simulation Method	100 °C to 1000 °C	1.79 °C
29	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple Indicator controller/Recorder	Using Process Calibrator by Simulation Method	-200 °C to 1050 °C	1.44°C
30	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple Indicator controller/Recorder	Using Process Calibrator by Simulation Method	0 °C to 1350 °C	1.19°C
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100) Indicator controller/Recorder	Using Process Calibrator by Simulation Method	-200 °C to 700 °C	1.38°C
32	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Calibrator/Digital Time Interval Meter by Comparison Method	1 s to 3600 s	0.03 s to 5.6 s



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

30 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
33	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Stroboscope, Centrifuge (Non Contact Type) L.C:- 1 rpm	Using Digital Tachometer by Direct Method	1000 rpm to 35000 rpm	0.19%
34	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Stroboscope, Centrifuge (Non Contact Type) LC:- 0.1 rpm	Using Digital Tachometer by Direct Method	10 rpm to 1000 rpm	0.45%
35	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type) L.C: 1 rpm	Using Digital Tachometer with rpm source by Comparison Method	1000 rpm to 35000 rpm	0.19 %
36	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type) L.C:- 0.1 rpm	Using Digital Tachometer with rpm source by Comparison Method	10 rpm to 1000 rpm	0.45 %
37	MECHANICAL-ACOUSTICS	Sound Level Meter @1 kHz	Using Sound Level Calibrator by Comparison Method	94 & 114 dB	1.34dB
38	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Dial / Digital Pressure Gauge, Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge & Pressure Comparator, DMM by Comparison Method as per DKD-R6-1	>70 bar to 700 bar	0.42bar



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

31 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
39	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Dial / Digital Pressure Gauge, Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge & Pressure Comparator, DMM by Comparison Method as per DKD-R6-1	0 bar to 70 bar	0.09bar
40	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, Compression Testing Machine - Compression mode	Using Force Proving Instrument Class-1 of UTM/CTM based on IS 1828 part I 2015	1000 kN to 2000 kN	1%
41	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, Compression Testing Machine - Compression Mode	Using Force Proving Instrument Class-1 of UTM. based on IS 1828 part I 2015	50 kN to 100 kN	0.88%
42	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, Compression Testing Machine - Compression Mode	Using Force Proving Instrument Class-1 of UTM based on IS 1828 Part 1 2015	100 kN to 1000 kN	1.00%
43	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, Compression Testing Machine - Compression Mode	Using Force Proving Instrument Class-1 of UTM. based on IS 1828 part I 2015	1 kN to 50 kN	0.82%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

32 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
44	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, Compression Testing Machine - Compression Mode	Using Force Proving Instrument Class-1 based on IS 1828 part I 2015	20 N to 1 kN	0.6%
45	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, Tensile Testing Machine - Tension mode	Using Force Proving Instrument Class-1 of UTM. based on IS 1828 part I 2015	50 kN to 100 kN	0.97%
46	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, Tensile Testing Machine - Tension Mode	Using Force Proving Instrument Class-1 of UTM. based on IS 1828 part I 2015	1 kN to 50 kN	0.88%
47	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, Tensile Testing Machine - Tension Mode	Using Force Proving Instrument Class-1 based on IS 1828 Part I 2015	20 N to 1 kN	1.02%
48	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 0.1mg & Coarser Class I	Using Standard Weights of Accuracy Class E2 as per OIML R 76-1	1 mg to 80 g	0.44mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

33 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
49	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 0.1mg & Coarser Class I	Using Standard Weights of Accuracy Class E2 as per OIML R 76-1	80 g to 200 g	0.64mg
50	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 10g & Coarser Class VI	Using Standard Weights of Accuracy Class F1 and F2 as per OIML R 76-1	10 kg to 100 kg	58mg
51	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 1g & Coarser Class III	Using Standard Weights of Accuracy Class F1 & F2 as per OIML R-76	1 kg to 10 kg	71mg
52	MECHANICAL-WEIGHTS	Weights (Accuracy class F1 & coarser)	Using E2 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R-111: 2004	10 g	0.04 mg
53	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with sensor of Humidity Calibrator/ Generator, Humidity Chamber (Single Position Calibration)	Using Digital RH Indicator with Sensor	10 %rh to 95 %rh @25°C	1.8 %rh



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TESTNCAL LABORATORY, PLOT NO-113, POCKET-A2, SECTOR-17, DWARKA, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2055

Page No

34 of 34

Validity

21/07/2022 to 20/07/2024

Last Amended on

-

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)(±)
54	THERMAL-TEMPERATURE	Refrigerator, Cold Room Liquid Cold Bath	Using 4 wire RTD with 6½ DMM and Dry Block Bath Calibrator by Comparison Method	-20 °C to 50 °C	0.32°C
55	THERMAL-TEMPERATURE	Temperature Indicator Of Liquid Bath, Oven, Autoclave (Industrial Purpose only), BOD Incubator (Industrial Purpose only), Environmental Chamber (Single Position Calibration)	Using RTD Sensor with 6 ½ Digit Multimeter by comparison method	-20 °C to 350 °C	0.48°C
56	THERMAL-TEMPERATURE	Temperature indicator with sensor of Deep Freezer/ Freezer (Single Position Calibration)	Using RTD (4W) with 6½ Digit Multimeter by comparison method	-80 °C to 25 °C	0.48 °C
57	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Furnace/ Muffle Furnace (Single Position Calibration)	Using Digital S/R-Type Thermocouple with 6½ digit multimeter by comparison method	0 °C to 1200 °C	2.24 °C

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