National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2959	**Page No**	1 of 39
Validity	01/03/2022 to 29/02/2024	**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@ 50 HZ	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	3.15 % to 0.41 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current@ 50 HZ	Using 6½ Digit Multimeter by Direct Method	1 mA to 1 A	0.16 % to 3.15 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage@ 50 HZ	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	1.41 % to 0.43 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage@ 50 HZ	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	0.587 % to 0.049 %

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 2 of 39

Validity 01/03/2022 to 29/02/2024 **Last Amended on** -

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage@ 50 HZ	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.430 % to 0.587 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@ 50 HZ	Using 5½ Multifunction Calibrator by Direct Method	1 A to 10 A	0.71 % to 0.55 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@ 50 HZ	Using 5½ Multifunction Calibrator by Direct Method	1 mA to 1 A	0.78 % to 0.71 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@ 50 HZ	Using 5½ Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	0.55 % to 1.26 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage@ 50 HZ	Using 5½ Multifunction Calibrator by Direct Method	1 mV to 1 V	2.41 % to 0.39 %

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 3 of 39

Validity 01/03/2022 to 29/02/2024 **Last Amended on** -

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage@ 50 HZ	Using 5½ Multifunction Calibrator by Direct Method	1 V to 1000 V	0.39 % to 0.25 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.08 % to 0.19 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 1 A	0.06 % to 0.08 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 1 V	0.85 % to 0.11 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	0.11 % to 0.08 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	1 Kilo Ohm to 10 Kilo Ohm	0.012 % to 0.009 %

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 4 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.046 % to 0.026 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	1 Ohm to 100 Ohm	0.45 % to 0.013 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	10 Kilo Ohm to 100 Kilo Ohm	0.009 % to 0.016 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.026 % to 0.972 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	100 Kilo Ohm to 1 Megha Ohn	0.016 % to 0.046 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	100 Mohm to 1 Gohm	0.972 % to 2.098 %

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 5 of 39

Validity 01/03/2022 to 29/02/2024 **Last Amended on** -

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	100 Ohm to 1 Kilo Ohm	0.013 % to 0.012 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multifunction Calibrator by Direct Method	1 A to 10 A	0.69 % to 0.15 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multifunction Calibrator by Direct Method	1 mA to 1 A	1.01 % to 0.69 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multifunction Calibrator with current Coil by Direct Method	10 A to 1000 A	0.15 % to 1.02 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Multifunction Calibrator by Direct Method	1 mV to 1 V	1.43 % to 0.17 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Multifunction Calibrator by Direct Method	1 V to 1000 V	0.17%

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 6 of 39

Validity 01/03/2022 to 29/02/2024 **Last Amended on** -

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 kilo ohm to 100 kilo ohm	0.13%
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 Megha Ohm to 100 Megha Ohm	0.13 % to 1.16 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 ohm to 100 ohm	0.43 % to 0.13 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 kilo ohm to 1 Megha Ohm	0.13%
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 Megha Ohm to 1000 Megha Ohm	1.16 % to 2.37 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 ohm to 1 kilo ohm	0.13%

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 7 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (B Type)	Using Multifunction Calibrator by Direct Method	600 ° C to 1690 ° C	2.39° C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (E Type)	Using Multifunction Calibrator by Direct Method	100 ° C to 590 ° C	0.69° C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (J Type)	Using Multifunction Calibrator by Direct Method	-190 ° C to 1190 ° C	0.53° C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (K Type)	Using Multifunction Calibrator by Direct Method	50 ° C to 1190 ° C	0.51° C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (N Type)	Using Multifunction Calibrator by Direct Method	-190 ° C to 1290 ° C	0.61° C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (R Type)	Using Multifunction Calibrator by Direct Method	600 ° C to 1290 ° C	1.2° C

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 8 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (RTD PT-100)	Using Multifunction Calibrator by Direct Method	-190 ° C to 790 ° C	0.57° C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (S Type)	Using Multifunction Calibrator by Direct Method	50 °C to 1690 ° C	1.41° C
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (T Type)	Using Multifunction Calibrator by Direct Method	-190 ° C to 390 ° C	0.98° C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (B Type)	Using Multifunction Calibrator by Direct Method	600 °C to 1600 ° C	2.48°C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (E Type)	Using Multifunction Calibrator by Direct Method	-90 ° C to 590 ° C	0.95° C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (J Type)	Using Multifunction Calibrator by Direct Method	-190 ° C to 1190 ° C	0.97°C

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-2959
Page No	9 of 39
Validity	01/03/2022 to 29/02/2024
Last Amended on	-

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46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (K Type)	Using Multifunction Calibrator by Direct Method	-190 °C to 1290 ° C	0.98°C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (N Type)	Using Multifunction Calibrator by Direct Method	-190 ° C to 1290 ° C	1.04° C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (R Type)	Using Multifunction Calibrator by Direct Method	100 ° C to 1690 ° C	1.33° C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (RTD PT-100)	Using Multifunction Calibrator by Direct Method	-199 ° C to 790 ° C	0.83° C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (T Type)	Using Multifunction Calibrator by Direct Method	-190 ° C to 400 ° C	0.95° C
51	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch, Timer, Hour Meter	Using Time Calibrator by Comparison Method	5 s to 24 hrs	0.17 s to 1.05 s

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 10 of 39

Validity 01/03/2022 to 29/02/2024 **Last Amended on** -

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52	FLUID FLOW-FLOW MEASURING DEVICES	Anemometer	Using Hot Wire Aenemometer by comparison Method	0.6 m/s to 25 m/s	14.66%
53	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter,Rotameter,Dry Gas meter,Flow Calibrator,PM 10 and PM 2.5 Sampler/Combo Sampler	Using Air FLow Calibrator (AFC-2) by Comparison Method	0.3 LPM to 1 LPM	3.28%
54	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter,Rotameter,Dry Gas meter,Flow Calibrator,PM 10 and PM 2.5 Sampler/Combo Sampler	Using AirFlow Calibrator by Comparison Method	1 LPM to 100 LPM	1.27%
55	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate of Respirable Dust volume Sampler/High Volume Sampler/PM 10 Sampler	Using Top Loading Calibrator as per USEPA IO 2.1 Method	0.6 m3/min to 1.5 m3/min	2.88%
56	FLUID FLOW-FLOW MEASURING DEVICES	Pitote Tube,Hot wire Anemometer,Velocity Sensor	Using Standard Pitot Tube by comaprison Method as per 40 CFR PART 60 APPENDIX A	3 m/s to 25 m/s	2.48%

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 11 of 39

Validity 01/03/2022 to 29/02/2024 **Last Amended on** -

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57	FLUID FLOW-FLOW MEASURING DEVICES	Volume/Dry Gas At Flow rate 5 LPM to 120 LPM	Using Orifice AirFlow Calibrator By Comparison Method	0.01 m3 to 0.6 m3	1.27%
58	MECHANICAL-ACCELERATION AND SPEED	Magnetic Stirrer/Centrifuge (Non Contact Type)	Using Tachometer By direct Method	100 rpm to 20000 rpm	3.0% rdg to 0.12% rdg
59	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Tachometer and RPM Generator By comparison Method	100 rpm to 20000 rpm	3.0 % rdg to 0.12 % rdg
60	MECHANICAL-ACCELERATION AND SPEED	Tachometer(Contact Type)	Using Tachometer and RPM Generator By comparison Method	100 rpm to 8000 rpm	1.8 % rdg to 0.14 % rdg
61	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator By comparision Method	94 dB & 114 dB	1.1dB
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector L.C : 5'	Using Angle Gauge by comparison Method	90° - 0 - 90°	4'
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (0.001 mm) (1 mm Traverse)	Using Dial Calibration Tester by comparison Method	0 to 1 mm	4.8 µm

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 12 of 39

Validity 01/03/2022 to 29/02/2024 **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-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Foils	Using Electronics probe with DRO and Comparator Stand by comparison Method	0 to 0.690 mm	2.3 µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C : 0.001 mm	Using Coating Thickness Foils by comparison Method	0 to 0.690 mm	16.5 µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Degree Protector L.C : 1 °	Using Angle Gauge by Comparison Method	90° - 0 - 90°	35'
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Caliper L.C : 0.01 mm	Using Slip Gauge set, Long Slip Gauge Set by comparison Method	0 to 200 mm	8.5 µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C : 0.01 mm	Using Slip Gauge by comparison Method	0 to 10 mm	5.6 µm

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 13 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C : 0.001 mm	Using MIcrometer Checker and Slip Gauge Set by comparison Method	0 to 25 mm	1.5 µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C : 0.01 mm	Using Micrometer Checker,Long Slip Gauge and Slip Gauge Set by comparison Method	0 to 300 mm	8.3 µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Comparator stand with Electronics probe with DRO by comparison Method	0 to 1 mm	2.8 µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C : 0.01 mm	Using Caliper Checker and Surface Plate by comparison Method	0 to 1000 mm	15.0 µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C : 0.01 mm	Using Dial Calibration Tester by comparison Method	0 to 1.5 mm	3.8 µm

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 14 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape L.C : 1 mm	Using Tape and Scale calibrator by comparison Method	0 to 50 m	310 sqrt (L/1000) µm, L is in Meter
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Piece	Using Comparator Stand with DRO and Slip Gauge set by comparison Method	25 mm to 275 mm	2.3 µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Comparator stand with DRO and Slip Gauge Set by comparison Method	3 mm to 100 mm	1.8 µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C : 0.001 mm	Using Dial Calibration Tester by comparison Method	0 to 1 mm	2.5µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C : 0.001 mm	Using Dial Calibration Tester by comparison Method	0 to 10 mm	3.5µm

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 15 of 39

Validity 01/03/2022 to 29/02/2024 **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-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C : 0.01 mm	Using Comparator Stand with DRO and Slip gauge Set by comparison Method	0 to 50 mm	4.8µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	steel Scale L.C : 1 mm	Using Tape and Scale Calibrator by comparison Method	0 to 1000 mm	166 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C : 0.1 mm	Using Slip gauge set and Long Slip gauge Set by comparison Method	0 to 200 mm	57µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C : 0.01 mm	Using Caliper checker, Long Slip Gauge Set and Slip gauge Set by comparison Method	0 to 300 mm	10.7µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C : 0.02 mm	Using Caliper Checker and Long Slip Gauge Set by comparison Method	0 to 1000 mm	14.7µm

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 16 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
84	MECHANICAL-PRESSURE INDICATING DEVICES	Barometer	Using Absolete Pressure Gauge and Vacuum Pump as per OIML R-97	950 to 1050 mbar	0.91mbar
85	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Pressure Gauge/Pressure Transmitter/Pressure Sensors and Indicator	Using Digital Pressure Gauge with pneumatic Pump and pressure Indicator as per DKD-R6-1	0 to 2 bar	0.0009bar
86	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Pressure Gauge/Pressure Transmitter/Pressure Sensors and Indicator	Using Digital Pressure Gauge with pneumatic Pump & pressure Indicator as per DKD-R6-1	2 bar to 40 bar	0.01bar
87	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Pressure Gauge/Pressure Transmitter/Pressure Sensors and Indicator	Using Digital Pressure Gauge with Hydraulic Pump and pressure Indicator as per DKD-R6-1	40 to 700 bar	0.59bar
88	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Pressure Gauge/Pressure Transmitter/Pressure Sensors and Indicator/Manometer /Magnehelic Gauge/Differential Pressure Gauge	Using Digital manometer with pneumatic Pump and pressure Indicator as per DKD-R6-1	0 to 900 mbar	0.59mbar

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 17 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
89	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge	Using Digital Vacuum Gauge with pneumatic Pump as per DKD-R6-2	-0.85 to 0 bar	0.0019bar
90	MECHANICAL-VOLUME	Glass wares,Pipettes,Burettes,Measuring Cylinder,Flask,Beaker,NOx Appratus	Using Digital Semi Microbalance with readability 0.01 mg using Gravimetric Method	1 ml to 10 ml	9.6µl
91	MECHANICAL-VOLUME	Glass wares,Pipettes,Burettes,Measuring Cylinder,Flask,Beaker,NOx Appratus	Using Digital balance with readability 0.01 mg using Gravimetric Method	10 ml to 100 ml	38µl
92	MECHANICAL-VOLUME	Glass wares,Pipettes,Burettes,Measuring Cylinder,Flask,Beaker,NOx Appratus	Using Digital weighing balance with readability 10 mg using Gravimetric Method	100 ml to 500 ml	0.36ml
93	MECHANICAL-VOLUME	Glass wares,Pipettes,Burettes,Measuring Cylinder,Flask,Beaker,NOx Appratus	Using Digital Weighing balance with readability 10 mg using Gravimetric Method	500 ml to 5 l	1.1ml
94	MECHANICAL-VOLUME	Micro Pipette	Using Digital microbalance with readability 0.001 mg using Gravimetric Method	1 µl to 10 µl	0.2µl

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 18 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
95	MECHANICAL-VOLUME	Micro Pipette	Digital microbalance with readability 0.001 mg using Gravimetric Method	10 µl to 100 µl	0.24µl
96	MECHANICAL-VOLUME	Micro Pipette	Digital microbalance with readability 0.001 mg using Gravimetric Method	100 µl to 1000 µl	4.75µl
97	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (L.C : 0.001 mg) Class I	Using E1 Class weights as per OIML R-76-1	Upto 11 g	0.034mg
98	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (L.C : 0.01 mg) Class I	Using E1 Class weights as per OIML R-76-1	Upto 100 g	0.3mg
99	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (L.C : 0.1 mg) Class I	Using E1 Class weights as per OIML R-76-1	Upto 200 g	0.3mg
100	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (L.C : 1 mg) Class I	Using E1 & E2 Class weights as per OIML R-76-1	Upto 1 kg	2.32mg
101	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (L.C : 10 mg) Class II	Using E1& E2 Class weights as per OIML R-76-1	Upto 6 kg	26.8mg

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 19 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
102	MECHANICAL-WEIGHTS	Weights E2 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.001 mg as per OIML R-111	1 g	0.006mg
103	MECHANICAL-WEIGHTS	Weights E2 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.001 mg as per OIML R-111	10 g	0.012mg
104	MECHANICAL-WEIGHTS	Weights E2 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.01 mg as per OIML R-111	100 g	0.04mg
105	MECHANICAL-WEIGHTS	Weights E2 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.001 mg as per OIML R-111	2 g	0.0071mg
106	MECHANICAL-WEIGHTS	Weights E2 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.001 mg as per OIML R-111	2 mg	0.004mg
107	MECHANICAL-WEIGHTS	Weights E2 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.01 mg as per OIML R-111	20 g	0.018mg

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 20 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
108	MECHANICAL-WEIGHTS	Weights E2 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.001 mg as per OIML R-111	20 mg	0.010mg
109	MECHANICAL-WEIGHTS	Weights E2 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.001 mg as per OIML R-111	200 mg	0.032mg
110	MECHANICAL-WEIGHTS	Weights E2 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.001 mg as per OIML R-111	5 g	0.010mg
111	MECHANICAL-WEIGHTS	Weights E2 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.01 mg as per OIML R-111	50 g	0.03mg
112	MECHANICAL-WEIGHTS	Weights E2 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.001 mg as per OIML R-111	500 mg	0.009mg
113	MECHANICAL-WEIGHTS	Weights F1 Class And Coarser	Using E2 Class Weights and Balance of Readability 1 mg as per OIML R-111	1 kg	1.7mg

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 21 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
114	MECHANICAL-WEIGHTS	Weights F1 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.001 mg as per OIML R-111	1 mg	0.004mg
115	MECHANICAL-WEIGHTS	Weights F1 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.001 mg as per OIML R-111	10 mg	0.004mg
116	MECHANICAL-WEIGHTS	Weights F1 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.001 mg as per OIML R-111	100 mg	0.010mg
117	MECHANICAL-WEIGHTS	Weights F1 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.1 mg as per OIML R-111	200 g	0.12mg
118	MECHANICAL-WEIGHTS	Weights F1 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.001 mg as per OIML R-111	5 mg	0.004mg
119	MECHANICAL-WEIGHTS	Weights F1 Class and Coarser	Using E1 Class Weights and Balance of Readability 0.001 mg as per OIML R-111	50 mg	0.010mg

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 22 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
120	MECHANICAL-WEIGHTS	Weights F2 Class And Coarser	Using E2 Class Weights and Balance of Readability 0.01g as per OIML R-111	5 kg	12mg
121	MECHANICAL-WEIGHTS	Weights F2 Class And Coarser	Using E2 Class Weights and Balance of Readability 1 mg as per OIML R-111	500 g	1.18mg
122	MECHANICAL-WEIGHTS	Weights M1 Class And Coarser	Using E2 Class Weights and Balance of Readability 0.01 g as per OIML R-111	2 kg	12mg
123	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermohygro Meter (@ 50 % RH)	Using Temperature and RH Indicator With Sensor & Temp and Humidity Chamber by Comparison Method	10 ° C to 50 ° C	0.64° C
124	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermohygro Meter/RH Indicator With Sensor (@ 25 °C)	Using Temperature and RH Indicator With Sensor & Temp and Humidity Chamber by Comparison Method	20 % RH to 90 % RH	1.90% RH
125	THERMAL-TEMPERATURE	IR Thermometer	Using Reference IR Thermometer with Black Body Source (Emissivity 0.95) by Comparison Method	50 ° C to 500 ° C	2.5° C

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 23 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
126	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Digital Thermometer	Using Master RTD Sensor with Indicator and Negative Bath by comparision Method	-5 ° C to 50 ° C	0.13° C
127	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Digital Thermometer	Using Master RTD Sensor with Indicator and oil Bath by comparision Method	50 ° C to 250 ° C	0.65° C
128	THERMAL-TEMPERATURE	RTD Sensor with or without Indicator/Temperature Gauge	Using Master RTD Sensor with Indicator, Temperature indicator & Dry block by comparison Method	250 ° C to 400 ° C	0.23° C
129	THERMAL-TEMPERATURE	RTD Sensor with or without Indicator/Temperature Gauge	Using Master RTD with Indicator, Temperature indicator and Negative Bath by Comparision method	-35 ° C to 50 ° C	0.15° C
130	THERMAL-TEMPERATURE	RTD Sensor with or without Indicator/Temperature Gauge	Using Master RTD Sensor with Indicator, Temperature indicator & Oil Bath by comparison Method	50 °C to 250 °C	0.23 °C

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 24 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
131	THERMAL-TEMPERATURE	Thermocouple with or without Indicator	Using "S" Type Thermocouple with Indicator, Temperature indicator And Dry Block by Comparison Method	400 ° C to 1200 ° C	2.45° C

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 25 of 39

Validity 01/03/2022 to 29/02/2024 **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@ 50 HZ	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	3.15 % to 0.41 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current@ 50 HZ	Using 6½ Digit Multimeter by Direct Method	1 mA to 1 A	0.16 % to 3.15 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage@ 50 HZ	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	1.41 % to 0.43 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage@ 50 HZ	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	0.587 % to 0.049 %

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 26 of 39

Validity 01/03/2022 to 29/02/2024 **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 Voltage@ 50 HZ	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.430 % to 0.587 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@ 50 HZ	Using 5½ Multifunction Calibrator by Direct Method	1 A to 10 A	0.71 % to 0.55 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@ 50 HZ	Using 5½ Multifunction Calibrator by Direct Method	1 mA to 1 A	0.78 % to 0.71 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@ 50 HZ	Using 5½ Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	0.55 % to 1.26 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage@ 50 HZ	Using 5½ Multifunction Calibrator by Direct Method	1 mV to 1 V	2.41 % to 0.39 %

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 27 of 39

Validity 01/03/2022 to 29/02/2024 **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) (Source)	AC Voltage@ 50 HZ	Using 5½ Multifunction Calibrator by Direct Method	1 V to 1000 V	0.39 % to 0.25 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.08 % to 0.19 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 1 A	0.06 % to 0.08 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 1 V	0.85 % to 0.11 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	0.11 % to 0.08 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	1 Kilo Ohm to 10 Kilo Ohm	0.012 % to 0.009 %

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 28 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.046 % to 0.026 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	1 Ohm to 100 Ohm	0.45 % to 0.013 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	10 Kilo Ohm to 100 Kilo Ohm	0.009 % to 0.016 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.026 % to 0.972 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	100 Kilo Ohm to 1 Megha Ohn	0.016 % to 0.046 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	100 Mohm to 1 Gohm	0.972 % to 2.098 %

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 29 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	100 Ohm to 1 Kilo Ohm	0.013 % to 0.012 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multifunction Calibrator by Direct Method	1 A to 10 A	0.69 % to 0.15 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multifunction Calibrator by Direct Method	1 mA to 1 A	1.01 % to 0.69 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multifunction Calibrator with current Coil by Direct Method	10 A to 1000 A	0.15 % to 1.02 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Multifunction Calibrator by Direct Method	1 mV to 1 V	1.43 % to 0.17 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Multifunction Calibrator by Direct Method	1 V to 1000 V	0.17%

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 30 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 kilo ohm to 100 kilo ohm	0.13%
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 Megha Ohm to 100 Megha Ohm	0.13 % to 1.16 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 ohm to 100 ohm	0.43 % to 0.13 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 kilo ohm to 1 Megha Ohm	0.13%
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 Megha Ohm to 1000 Megha Ohm	1.16 % to 2.37 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 ohm to 1 kilo ohm	0.13%

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 31 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (B Type)	Using Multifunction Calibrator by Direct Method	600 ° C to 1690 ° C	2.39° C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (E Type)	Using Multifunction Calibrator by Direct Method	100 ° C to 590 ° C	0.69° C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (J Type)	Using Multifunction Calibrator by Direct Method	-190 ° C to 1190 ° C	0.53° C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (K Type)	Using Multifunction Calibrator by Direct Method	50 ° C to 1190 ° C	0.51° C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (N Type)	Using Multifunction Calibrator by Direct Method	-190 ° C to 1290 ° C	0.61° C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (R Type)	Using Multifunction Calibrator by Direct Method	600 ° C to 1290 ° C	1.2° C

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 32 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (RTD PT-100)	Using Multifunction Calibrator by Direct Method	-190 ° C to 790 ° C	0.57° C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (S Type)	Using Multifunction Calibrator by Direct Method	50 °C to 1690 ° C	1.41° C
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature (T Type)	Using Multifunction Calibrator by Direct Method	-190 ° C to 390 ° C	0.98° C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (B Type)	Using Multifunction Calibrator by Direct Method	600 °C to 1600 ° C	2.48°C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (E Type)	Using Multifunction Calibrator by Direct Method	-90 ° C to 590 ° C	0.95° C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (J Type)	Using Multifunction Calibrator by Direct Method	-190 ° C to 1190 ° C	0.97°C

SCOPE OF ACCREDITATION

Laboratory Name : ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 33 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (K Type)	Using Multifunction Calibrator by Direct Method	-190 °C to 1290 ° C	0.98°C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (N Type)	Using Multifunction Calibrator by Direct Method	-190 ° C to 1290 ° C	1.04° C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (R Type)	Using Multifunction Calibrator by Direct Method	100 ° C to 1690 ° C	1.33° C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (RTD PT-100)	Using Multifunction Calibrator by Direct Method	-199 ° C to 790 ° C	0.83° C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (T Type)	Using Multifunction Calibrator by Direct Method	-190 ° C to 400 ° C	0.95° C
51	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch, Timer, Hour Meter	Using Time Calibrator by Comparison Method	5 s to 24 hrs	0.17 s to 1.05 s

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 34 of 39

Validity 01/03/2022 to 29/02/2024 **Last Amended on** -

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52	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter,Rotameter,Dry Gas meter,Flow Calibrator,PM 10 and PM 2.5 Sampler/Combo Sampler	Using Air FLow Calibrator (AFC-2) by Comparison Method	0.3 LPM to 1 LPM	3.28%
53	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter,Rotameter,Dry Gas meter,Flow Calibrator,PM 10 and PM 2.5 Sampler/Combo Sampler	Using AirFlow Calibrator by Comparison Method	1 LPM to 100 LPM	1.27%
54	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate of Respirable Dust volume Sampler/High Volume Sampler/PM 10 Sampler	Using Top Loading Calibrator as per USEPA IO 2.1 Method	0.6 m3/min to 1.5 m3/min	2.88%
55	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate(Liquid), Analog & Digital Water Flow Meter	Using Ultrasonic Flow Meter by comparison Method	1 m3/hr to 450 m3/hr	1.7%
56	MECHANICAL-ACCELERATION AND SPEED	Magnetic Stirrer/Centrifuge (Non Contact Type)	Using Tachometer By direct Method	100 rpm to 20000 rpm	3.0% rdg to 0.12% rdg

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 35 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
57	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Tachometer and RPM Generator By comparison Method	100 rpm to 20000 rpm	3.0 % rdg to 0.12 % rdg
58	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Pressure Gauge/Pressure Transmitter/Pressure Sensors and Indicator	Using Digital Pressure Gauge with pneumatic Pump and pressure Indicator as per DKD-R6-1	0 to 2 bar	0.0009bar
59	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Pressure Gauge/Pressure Transmitter/Pressure Sensors and Indicator	Using Digital Pressure Gauge with pneumatic Pump & pressure Indicator as per DKD-R6-1	2 bar to 40 bar	0.01bar
60	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Pressure Gauge/Pressure Transmitter/Pressure Sensors and Indicator	Using Digital Pressure Gauge with Hydraulic Pump and pressure Indicator as per DKD-R6-1	40 to 700 bar	0.59bar
61	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Pressure Gauge/Pressure Transmitter/Pressure Sensors and Indicator/Manometer /Magnehelic Gauge/Differential Pressure Gauge	Using Digital manometer with pneumatic Pump and pressure Indicator as per DKD-R6-1	0 to 900 mbar	0.59mbar

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 36 of 39

Validity 01/03/2022 to 29/02/2024 **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)(±)
62	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge	Using Digital Vacuum Gauge with pneumatic Pump as per DKD-R6-2	-0.85 to 0 bar	0.0019bar
63	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (L.C : 0.001 mg) Class I	Using E1 Class weights as per OIML R-76-1	Upto 11 g	0.034mg
64	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (L.C : 0.01 mg) Class I	Using E1 Class weights as per OIML R-76-1	Upto 100 g	0.3mg
65	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (L.C : 0.1 mg) Class I	Using E1 Class weights as per OIML R-76-1	Upto 200 g	0.3mg
66	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (L.C : 1 mg) Class I	Using E1 & E2 Class weights as per OIML R-76-1	Upto 1 kg	2.32mg
67	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (L.C : 10 mg) Class II	Using E1& E2 Class weights as per OIML R-76-1	Upto 6 kg	26.8mg
68	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermohygro Meter/RH Indicator With Sensor (@ 25 °C)	Using Temperature and RH Indicator With Sensor & Temp and Humidity Chamber by Comparison Method	20 % RH to 90 % RH	1.90% RH

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 37 of 39

Validity 01/03/2022 to 29/02/2024 **Last Amended on** -

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69	THERMAL-TEMPERATURE	Auto clave/Oven/Chamber (Multi Position)	Using with RTD Sensor Datalogger by comparison Method	40 to 130 ° C	9.56° C
70	THERMAL-TEMPERATURE	Freezer (Multi Position)	Using with RTD Sensor Datalogger by comparison Method	-5 ° C to 10 ° C	2.8° C
71	THERMAL-TEMPERATURE	RTD Sensor with or without Indicator/Temperature Gauge	Using Master RTD Sensor with Indicator, Temperature indicator & Dry block by comparison Method	250 ° C to 400 ° C	0.23° C
72	THERMAL-TEMPERATURE	RTD Sensor with or without Indicator/Temperature Gauge	Using Master RTD with Indicator, Temperature indicator and Negative Bath by Comparision method	-35 ° C to 50 ° C	0.15° C
73	THERMAL-TEMPERATURE	RTD Sensor with or without Indicator/Temperature Gauge	Using Master RTD Sensor with Indicator, Temperature indicator & Oil Bath by comparison Method	50 °C to 250 °C	0.23 °C

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 38 of 39

Validity 01/03/2022 to 29/02/2024 **Last Amended on** -

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74	THERMAL-TEMPERATURE	Temperature indicator with sensor of Chamber/Freezer /Bath	Using RTD with indicator by comparison Method	- 40°C to 50 °C	3.0 °C
75	THERMAL-TEMPERATURE	Temperature indicator with sensor of Dry Block (single Position)	Using RTD sensor with Indicator by comparison Method	25 °C to 250 °C	2.51 °C
76	THERMAL-TEMPERATURE	Temperature indicator with sensor of Environmental Chamber/BOD Incubator/COD Digester (non medical devices)(single Position)	Using Master RTD Sensor with Indicator by comparision Method	25 °C to 250 °C	0.59 °C
77	THERMAL-TEMPERATURE	Temperature indicator with sensor of Furnace (single Position)	Using "S" Type Thermocouple with Indicator by comparision Method	250 ° C to 1200 °C	2.51° C
78	THERMAL-TEMPERATURE	Temperature indicator with sensor of Furnace (Single position)	Using "S" Type Thermocouple with indicator by comparison Method.	400 ° C to 1200 ° C	3.0° C
79	THERMAL-TEMPERATURE	Temperature indicator with sensor of Hot Air Oven (single Position)	Using RTD with indicator by comparision Method.	40 °C to 400 ° C	0.59° C

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2959 **Page No** 39 of 39

Validity 01/03/2022 to 29/02/2024 **Last Amended on** -

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80	THERMAL-TEMPERATURE	Temperature indicator with sensor of Liquid Bath (single Position)	Using Master RTD Sensor with Indicator by comparision Method	-35 ° C to 250 ° C	0.23°C
81	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven, Autoclave, Bath , Incubator, COD Digestor, Furnace	Using RTD with indicator by comparison Method	25 °C to 400 °C	3.0 °C
82	THERMAL-TEMPERATURE	Thermocouple with or without Indicator	Using "S" Type Thermocouple with Indicator, Temperature indicator And Dry Block by Comparison Method	400 ° C to 1200 ° C	2.45° C

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