

Laboratory

Yor Lab, Plot No. 42/2, Survey No. 83, 150 Feet Ring Road (West),
Vavdi, Rajkot, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2342

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| Sl. | Quantity Measured / Instrument | Range/Frequency | *Calibration Measurement Capability (\pm) | Remarks |
|---|--------------------------------|---|--|--|
| <u>ELECTRO-TECHNICAL CALIBRATION</u> | | | | |
| 1. | SOURCE | | | |
| 1. | DC Voltage ^o | 1 mV to 1 V 1 V to 100 V 100 V to 1000 V | 1.54 % to 0.134 % 0.134 % 0.134 % to 0.145 % | Using 5½ Digit Multifunction Calibrator By Direct Method |
| | DC Voltage [*] | 1 V to 10 V | 0.068 % to 0.065 % | Using Multifunction Calibrator (Beamex/MC2-TE) By Direct Method |
| 2. | AC Voltage ^o | 50 Hz 10 mV to 1 V 1 V to 100 V 100 V to 1000 V | 0.503 % to 0.236 % 0.236 % to 0.239 % 0.239 % to 0.224 % | Using 5½ Digit Multifunction Calibrator By Direct Method |
| 3. | DC Current ^o | 1 mA to 100 mA 100 mA to 10 A 10 A to 100 A 100 A to 900 A | 0.715 % to 0.161 % 0.161 % to 0.252 % 0.252 % to 1.316 % 1.316 % to 1.204 % | Using 5½ Digit Multifunction Calibrator with Current Coil By Direct Method |
| | DC Current [*] | 2 mA to 24 mA | 0.131 % to 0.211 % | Using Multifunction Calibrator (Beamex/MC2-TE) By Direct Method |
| 4. | AC Current ^o | 50 Hz 1 mA to 100 mA 100 mA to 10 A 10 A to 100 A 100 A to 900 A | 1.917 % to 0.269 % 0.269 % to 0.322 % 0.322 % to 2.017 % 2.017 % to 1.484 % | Using 5½ Digit Multifunction Calibrator with Current Coil By Direct Method |

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|-----|---|---|---|--|
| 5. | Resistance [§] | 1 Ω to 100 Ω 100 Ω to 10 K Ω 10 k Ω to 1 M Ω 1 M Ω to 1000 M Ω | 0.683 % to 0.117 % 0.117 % 0.117 % to 2.248 % 2.248 % to 2.035 % | Using Decade resistance box By Direct Method |
| 6. | Frequency [#] | 10 Hz to 10 kHz | 0.016 % to 0.018 % | Using Multifunction Calibrator (Beamex/MC2-TE) By Direct Method |
| 7. | Temperature Simulation [#] (Temperature Controller/ Indicator/Recorder) | | | |
| | J-type Thermocouple | 0 °C to 600 °C | 0.75 °C | Using Multifunction Calibrator (Beamex/MC2-TE) By Direct Method |
| | K-type Thermocouple | 0 °C to 1300 °C | 0.88 °C | |
| | R-type Thermocouple | 300 °C to 1700 °C | 1.13 °C | |
| | S-type Thermocouple | 300 °C to 1600 °C | 1.19 °C | |
| | T-type Thermocouple | 0 °C to 400 °C | 0.79 °C | |
| | RTD PT-100 | (-) 200 °C to 800 °C | 0.72 °C | |
| II. | MEASURE | | | |
| 1. | DC Voltage [§] | 100 mV to 10 V 10 V to 1000 V | 0.026 % to 0.006 % 0.006 % to 0.024 % | Using 6½ Digit Precision Multimeter (TEKTRONIX/DMM4050) by Direct Method |
| | DC Voltage [*] | 1 V to 50 V | 0.182 % to 0.036 % | Using Multifunction Calibrator (Beamex/MC2-TE) by Direct Method |

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| 2. | AC Voltage ^s | 50 Hz 100 mV to 10 V 10 V to 1000 V | 0.117 % to 0.106 % 0.106 % to 0.099 % | Using 6½ Digit Precision Multimeter (TEKTRONIX / DMM4050) by Direct Method |
| 3. | DC Current ^s | 1 mA to 100 mA 100 mA to 1 A 1 A to 10 A | 0.064 % 0.064 % to 0.085 % 0.085 % to 0.199 % | Using 6½ Digit Precision multimeter (TEKTRONIX / DMM4050) by Direct Method |
| | DC Current ^s | 4 mA to 90 mA | 0.080 % to 0.041 % | Using Multifunction Calibrator (Beamex/MC2-TE) By Direct Method |
| 4. | AC Current ^s | 1 kHz 1 mA to 100 mA 100 mA to 1 A 1 A to 10 A | 0.169 % 0.169 % to 0.199 % 0.199 % to 0.263 % | Using 6½ Digit Precision multimeter (TEKTRONIX / DMM4050) by Direct Method |
| 5. | Resistance ^s | 1 Ω to 100 Ω 100 Ω to 10 K Ω 10 k Ω to 1 M Ω 1 M Ω to 100 M Ω | 0.078 % to 0.016 % 0.016 % to 0.014 % 0.014 % to 0.015 % 0.015 % to 0.940 % | Using 6½ Digit Precision Multimeter (TEKTRONIX / DMM4050) by Direct Method |
| 6. | DC High Voltage [#] | 1 kV to 3 kV | 4.54 % to 3.63 % | Using HV Probe with DMM by Direct Method |
| 7. | AC High Voltage [#] | 1 kV to 5 kV | 9.57 % to 7.77 % | Using HV Probe with DMM by Direct Method |

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| <u>FLUID FLOW CALIBRATION</u> | | | | |
| I. | FLOW MEASURING DEVICES | | | |
| 1. | Water Flow Measurement* | 1 m ³ /hr to 100 m ³ /hr | 3 % | Using Ultra Sonic Flow Meter by Comparison Method |
| 2. | Water Flow Measurement* | 100 m ³ /hr to 360 m ³ /hr | 2.5 % | Using Ultra Sonic Flow Meter by Comparison Method |

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| <u>MECHANICAL CALIBRATION</u> | | | | |
| 1. | DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | | | |
| 1. | Micrometer Setting Rod ^s | Up to 300 mm 300 mm to 600 mm | 7.0 μ m 12.0 μ m | Using Slip Gauge Block Set/Length Bar & Electronic Probe |
| 2. | Vernier Caliper ^s L.C.: 0.01 mm | 0 to 600 mm | 17.0 μ m | Using Caliper Checker/ Slip Gauge Set & Digital External Micrometer as per IS 3651 |
| 3. | Lever Dial Indicator ^s L.C.: 0.001 mm L.C.: 0.01 mm | 0 to 0.2 mm 0 to 0.8 mm | 2.0 μ m 7.0 μ m | Using Digital Dial Calibration Tester as per IS 11498 |
| 4. | Internal Micrometer ^s L.C.: 0.01 mm | 5 mm to 250 mm 300 mm to 600 mm | 9.0 μ m 14.0 μ m | Using Slip Gauge Block Set & Slip Gauge Accessories Set as per IS 2966 |
| 5. | External Micrometer ^s L.C.: 0.001 mm L.C.: 0.01 mm | 0 to 150 mm 0 to 600 mm | 4.0 μ m 14.0 μ m | Using Slip Gauge Block Set/Length Bar as per IS 2967 |
| 6. | Depth Micrometer ^s L.C.: 0.001 mm L.C.: 0.01 mm | 0 to 25 mm 0 to 300 mm | 5.0 μ m 10.0 μ m | Using Slip Gauge Block Set/Length Bar as per IS 2966 |
| 7. | Micrometer Head ^s L.C.: 0.01 mm | 0 to 50 mm | 4.0 μ m | Using Slip Gauge Set |
| 8. | Steel Scale ^s L.C.: 0.5/1 mm | 0 to 1000 mm | 119.0 μ m | Using Tape & Scale Calibrator as per IS 1481 |

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| 9. | Measuring Tape ^s L.C.: 1 mm Pi-Tape ^s L.C.: 0.1 mm | 0 to 50 meter 0 to 700 mm Dia. | $119.0 \sqrt{L} \mu\text{m}$ Where L is in meter $119.0 \sqrt{L} \mu\text{m}$ Where L is in meter | Using Tape & Scale Calibrator as per IS 1269 |
| 10. | Dial Bore Gauge ^s (1mm Transmission) L.C.: 1 μm | 1 mm | 3.0 μm | Using Digital Dial Calibration Tester as per IS 2092 |
| 11. | Height Gauge ^s L.C.: 0.01 mm | 0 to 600 mm | 17.0 μm | Using Caliper Checker as per IS 2921 |
| 12. | Vernier Depth Gauge ^s L.C.: 0.01 mm | 0 to 300 mm | 9.0 μm | Using Slip Gauge Block Set & Length Bar as per IS 4213 |
| 13. | Spirit Level ^s (Sensitivity) L.C.: 0.02 mm/m | Up to 200 mm Base Length | 14.0 $\mu\text{m}/\text{m}$ | Using Electronic Level & Tilting Surface Plate as per IS 5706 |
| 14. | Plain Plug Gauge ^s (Dia.) | 2 mm to 150 mm >150 mm to 300 mm | 4.0 μm 7.0 μm | Using Slip Gauge Block Set/Length Bar & Electronic Probe as per IS 3455 |
| 15. | Dial Thickness Gauge ^s L.C.: 0.001 mm L.C.: 0.01 mm | 0 to 1 mm 0 to 10 mm | 1.0 μm 7.0 μm | Using Slip Gauge Set |
| 16. | Plunger Dial Gauge ^s L.C.: 0.001 mm | 0 to 25 mm | 3.0 μm | Using Digital Dial Calibration Tester as per IS 2092 |

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| 17. | Pistol Calliper [§] L.C.: 0.1 mm | Up to 50 mm | 58.0 μ m | Using Slip Gauge Set |
| 18. | Snap Gauge & Dial Snap Gauge [§] | 3 mm to 150 mm | 3.0 μ m | Using Slip Gauge Set as per IS 919/3455 |
| 19. | Feeler Gauge [§] | 0.05 mm to 1 mm | 4.0 μ m | Using Digital External Micrometer as per IS 3179 |
| 20. | Ultrasonic Thickness Gauge [§] L.C.: 0.1 mm | Up to 100 mm | 113.0 μ m | Using Slip Gauge Set as per IS 15468 |
| 21. | Coating Thickness Gauge [§] L.C.: 0.001 mm L.C.: 0.01 mm | 11.0 μ m to 1 mm 11.0 μ m to 6 mm | 6.0 μ m 9.0 μ m | Using Standard Foils as per IS 13237 |
| 22. | Standard Foils [§] | 11.0 μ m to 6 mm | 4.0 μ m | Using Digital External Micrometer as per IS 13237 |
| 23. | Inside Dial Caliper [§] L.C.: 0.01 mm | 2.5 mm to 80 mm | 8.0 μ m | Using Slip Gauge Set |
| 24. | Outside Dial Caliper [§] L.C.: 0.01 mm | Up to 100 mm | 7.5 μ m | Using Slip Gauge Set |
| 25. | Test Sieves [§] | 4 mm to 30 mm >30 mm to 125 mm | 18 μ m 67 μ m | Using Digital Vernier Caliper as per IS 460 |
| 26. | Extensometer [#] L.C.: 1 μ m | 0 to 2 mm | 3.0 μ m | Using Fixture & Electronic Probe with DRO |

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| 27. | Dial Calibration Tester ^{\$} L.C.: 0.1 μ m | 0 to 25 mm | 3.0 μ m | Using Electronic Probe with DRO |
| 28. | LVDT Probe With DRO ^{\$} L.C.: 0.1 μ m | 0 to 25 mm | 3.0 μ m | Using Slip Gauge Set |
| 29. | V Block ^{\$} Parallelism Squareness Symmetricity | Up to 200 mm | 9.0 μ m 7.0 μ m 9.0 μ m | Using Parallel Mandrel / Granite Square & Dial Gauge as per IS 13237 |
| 30. | Engineering Square/Right Angle/Try Square ^{\$} Parallelism Squareness Symmetricity | Up to 300 mm | 8.0 μ m 9.0 μ m 8.0 μ m | Using Surface Plate / Granite Square & Dial Gauge as per IS 2103 |
| 31. | Straight Edge ^{\$} (Straightness/ Parallelism) | Up to 600 mm | 9.0 μ m | Using Slip Gauge Set & Dial Gauge as per IS 2220/12937 |
| 32. | Surface Plate [#] | 2000 mm x 1000 mm | $1.3 \sqrt{\frac{L+W}{100}} \mu\text{m}$ (L & W in mm) | Using Electronic Level as per IS 7327 |
| II. | PRESSURE INDICATING DEVICES | | | |
| 1. | Digital/Analog Pressure Gauges/ Transmitter/ Pressure Switch [#] | 0 to 350 Bar | 0.24% Rdg. | Using Digital Pressure Gauge as per DKD-R-6-1 |

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| 2. | Digital/Analog Vacuum Gauges/ Transmitter # | 0 bar to (-) 0.9 Bar | 6.5% Rdg. | Using Digital Vacuum Gauge as per DKD-R-6-1 |
| 3. | Manometer / Low Pressure Gauge # | (-) 20 kPa to 20 kPa | 0.16 kPa | Using Digital Manometer as per DKD-R-6-1 |
| III. | UTM, TENSION CREEP AND TORSION TESTING MACHINE | | | |
| 1. | Universal Testing Machine In Compression & Tension* | | | Using Load cell of Class 0.5 and force proving instruments as per IS 4169:2014 & IS 1828:2015 |
| | Tension Compression | 1 kN to 20 kN 1 kN to 1000 kN | 0.37% 0.63% | |
| IV. | HARDNESS TESTING MACHINES | | | |
| 1. | Rockwell Hardness Testing Machine By Indirect Method* | HRBW HRC | 0.93 HRBW 0.83 HRC | Using Standardized Hardness Block As per IS 1586:2012 |
| 2. | Brinell Hardness Testing Machine By Indirect Method* | 5/750 HBW 10/3000 HBW | 1.30% 1.01% | Using Standardized Hardness Block As per IS 1500: 2013 |
| V. | ACCELERATION AND SPEED | | | |
| 1. | Tachometer/ Centrifuge/ RPM Meter# (Contact) | 30 rpm to 5000 rpm | 3.0 % to 0.6 %Rdg. | Using Digital Tachometer along with Tacho-generator with a rotating disk as per SANAS-TR-45-01 |

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| | Tachometer/ Centrifuge/ RPM meter [#] (Non Contact) | 30 rpm to 20000 rpm | 0.6 %Rdg | Using Digital Tachometer along with Tacho-generator with a rotating disk as per SANAS-TR-45-01 |
| VI. | ACOUSTICS | | | |
| 1. | Sound Level Meter [#] | 1kHz 94 dB 114 dB | 2 dB 2 dB | Using Sound Level Calibrator Along With Meter as per OIML R 53 |
| VII. | WEIGHING SCALE AND BALANCE | | | |
| 1. | Electronic Weighing Balance [#] | 1mg to 200 g d \geq 0.1mg | 0.000264 g | Using E2 Class Standard Weights. For Calibration of Class I Weighing Balances and Coarser as per OIML R-76 |
| | | >200 g to 1 kg d \geq 10 mg | 0.02 g | Using F1& M1 Class Standard Weights. |
| | | >2 kg to 5 kg d \geq 0.1 g | 0.42 g | For Calibration of Class II and Class III Weighing Balances and Coarser as per OIML R-76 |
| | | >5 kg to 10 kg d \geq 0.5 g | 0.43 g | |
| | | >10 kg to 20 kg d \geq 1 g | 0.63 g | |
| | >20 kg to 200 kg d \geq 50 g | 33.0 g | | |

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| VIII. | WEIGHTS | | | |
| 1. | Mass / Weights ^s | 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g | 0.16 mg 0.16 mg 0.16 mg 0.16 mg 0.16 mg 0.16 mg 0.18 mg 0.27 mg | Using E2 Class Standard Weights & Digital Weighing balance up to 200 g of d=0.1 mg as per OIML R-111: 2004 and NABL 120-02 For Calibration of M1 Class Weights and Coarser |
| | | 500 g 1 kg 2 kg 5 kg 10 kg 20 kg | 13.4 mg 14.0 mg 14.0 mg 445.6 mg 708.7 mg 981.3 mg | Using F1 Class Standard Weights & Digital Weighing balance up to 1kg with d=10 mg, up to 5 kg with d=0.1g, up to 10 kg with d=0.5g, up to 20 kg with d=1g as per OIML R-111: 2004 and NABL 120-02. For Calibration of M2 Class Weights and Coarser |
| IX. | VOLUME | | | |
| 1. | Calibration of Piston Pipette ^s (Micro Pipettes) | 1 ml to 10 ml | 0.13 ml | Using Digital Weighing balance up to 200 g of d=0.1 mg and distilled water of known density as per IS 8655-6 & ISO/TR20461 |

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| 2. | (Glass Ware) Glass pipettes ^s (Graduated/non Graduated) | 1 ml to 25 ml | 0.23 ml | Using Digital Weighing balance up to 200 g of d=0.1 mg and distilled water of known density as per ISO 4787 & ISO/TR 20461 |
| 3. | Glass Burette ^s | 1 ml to 50 ml | 0.23 ml | Using Digital Weighing balance up to 200 g of d=0.1 mg and distilled water of known density as per ISO 4787 & ISO/TR 20461 |
| 4. | Measuring Cylinder/ Volumetric Flask / Conical Flask/ Beaker ^s | 1 ml to 100 ml >100 ml to 200 ml | 0.25 ml 0.25 ml | Using Digital Weighing balance up to 200 g of d=0.1 mg and distilled water of known density as per ISO 4787 & ISO/TR 20461 |

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| <u>THERMAL CALIBRATION</u> | | | | |
| 1. | TEMPERATURE | | | |
| 1. | Temperature Sensor, RTD/Thermocouple Sensor With Or Without Indicator, Temperature Gauge, Temperature Transmitter # | 30 °C to 300 °C | 1.32 °C | Using RTD Sensor With Indicator & Dry Block Calibrator By Comparison Method |
| 2. | Temperature Sensor, RTD/Thermocouple Sensor With Or Without Indicator, Temperature Gauge, Temperature Transmitter # | 300 °C to 600 °C | 1.53 °C | Using Thermocouple Sensor With Indicator & Dry Block Calibrator By Comparison Method |
| 3. | Liquid Glass Thermometer ^{\$} | 30 °C to 150 °C | 1.53 °C | Using RTD Sensor With Indicator & Oil Bath Calibrator By Comparison Method |
| 4. | Temperature Indicator With Sensor of Freezer, Refrigerator, Incubator, Autoclave, Water Bath, Oven, Muffle Furnace* | (-) 20 °C to 300 °C | 3.70 °C | Using RTD Sensor With Indicator @ Single Position |

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| 5. | Temperature Indicator With Sensor of Muffle Furnace* | 300 °C to 1000 °C | 6.1 °C | Using Thermocouple Sensor With Indicator @ Single Position |
| 6. | Calibration of Water Bath, Oven, Environmental Chamber and Room* | 30 °C to 100 °C | 3.3 °C | Using Digital Temperature Scanner With RTD Sensor (Minimum nine) @ Multi Position |

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

§ Only in Permanent Laboratory

* Only for Site Calibration

The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

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