# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** ARCHERCAL PRIVATE LIMITED, B-103, TANVI'S TANISHKA INDUSTRIAL ESTATE, TANVI COMPLEX, S. V. ROAD, DAHISAR EAST, MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

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| 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)(±) |
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| Permanent Facility | | | | | |
| 1 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 10 kHz | By using Reference Multimeter Fluke-8508A by Direct Method | 1 A to 20 A | 0.11 % to 0.30 % |
| 2 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz to 1 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 1 A to 20 A | 0.10 % to 0.12 % |
| 3 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz to 10 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 100 µA to 1 mA | 0.08 % to 0.058 % |
| 4 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz to 10 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 100 mA to 1 A | 0.060 % to 0.11 % |

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| 5 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz to 10 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 1 mA to 100 mA | 0.058 % to 0.060 % |
| 6 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @10 Hz, | By using Reference Multimeter Fluke-8508A by Direct Method | 100 mA to 1 A | 0.06 % to 0.11 % |
| 7 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @10 Hz, | By using Reference Multimeter Fluke-8508A by Direct Method | 100 µA to 100 mA | 0.08 % to 0.06 % |
| 8 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Power & Active Energy Single Phase & Three Phase @ 50 Hz, 240 V/ 1 mA to 100 A at UPF, 0.5PF & 0.8 PF | By using Reference Energy Meter ZERA-MT310 by Comparison Method | 0.12 W to 72 kW | 0.076% |
| 9 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Resistance @ 1 kHz | By using RLC Digibridge GenRad 1658 by Direct Method | 100 Ohm to 10 k Ohm | 0.12 % to 0.42 % |

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| 10 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Resistance @1 kHz | By using RLC Digibridge GenRad 1658 by Direct Method | 1 Ohm to 100 Ohm | 0.12% |
| 11 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 10 Hz | By using Reference Multimeter Fluke-8508A by Direct Method | 10 mV to 10 V | 0.08 % to 0.036 % |
| 12 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 10 Hz | By using Reference Multimeter Fluke-8508A by Direct Method | 10 V to 100 V | 0.036 % to 0.044 % |
| 13 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 10 Hz, | By using Reference Multimeter Fluke-8508A by Direct Method | 1 mV to 10 mV | 0.93 % to 0.08 % |
| 14 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 10 kHz | By using Reference Multimeter Fluke-8508A by Direct Method | 1 mV to 10 mV | 0.62 % to 0.069 % |

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| 15 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 10 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 10 mV to 100 mV | 0.069 % to 0.017 % |
| 16 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 10 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 100 mV to 100 V | 0.017 % to 0.013 % |
| 17 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 100 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 10 mV to 100 mV | 0.33 % to 0.12 % |
| 18 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 100 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 100 mV to 10 V | 0.12 % to 0.031 % |
| 19 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 50 Hz to 1 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 1 mV to 100 mV | 0.57 % to 0.02 % |

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| 20 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 50 Hz to 1 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 100 mV to 100 V | 0.020 % to 0.013 % |
| 21 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 50 Hz to 10 kHz | By using Reference Multimeter Fluke-8508A by Direct Method | 100 V to 1000 V | 0.013 % to 0.017 % |
| 22 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Capacitance @ 1 kHz | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct Method | 10 nF | 1.16 % |
| 23 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Capacitance@1 kHz | By using RLC Digibridge GenRad 1658 by Direct/ Comparision Method | 1 nF to 100 µF | 0.12 % |
| 24 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Inductance @1 kHz | By using RLC Digibrigde GenRad 1658 by Direct / Comparison Method | 1 mH to 10 H | 0.19 % to 0.13 % |

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| 25 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Inductance @1 kHz | By Using RLC Digibridge GenRad 1658 by Direct Method | 100 µH to 1 mH | 0.32 % to 0.19 % |
| 26 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz to 1 kHz | Using Multifunction Calibrator,Fluke-550 2 A By Direct Method | 30 µA to 100 µA | 0.56 % to 0.29 % |
| 27 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz to 1 kHz | By using MFC 5502A by Direct / comparison Method | 1 A to 10 A | 0.08 % to 0.14 % |
| 28 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz to 1 kHz | By using MFC 5502A by Direct/ comparison method | 10 A to 20 A | 0.14 % to 0.2 % |
| 29 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz to 1 kHz | By using MFC 5502A by Direct / comparision method | 100 mA to 1 A | 0.075 % to 0.05 % |

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| 30 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz to 1 kHz | By using MFC 5502A Direct method | 100 mA to 1 A | 0.075 % to 0.08 % |
| 31 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz, | Using Multifunction Calibrator,Fluke-5502 A & Current Coil, Fluke By Direct Method. | 20 A to 1000 A | 0.82 % to 0.85 % |
| 32 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50Hz to 1 kHz, | Using Multifunction Calibrator,Fluke-5502 A By Direct Method. | 1 mA to 100 mA | 0.14 % to 0.08 % |
| 33 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50Hz to 1kHz | Using Multifunction Calibrator,Fluke-5502 A By Direct Method. | 100 µA to 1 mA | 0.29 % to 0.14 % |
| 34 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Power (1 Phase) @UPF, 50 Hz, 30V to 320V/ 1 mA to 20A | Using Multifunction Multiproduct Calibrator ,Fluke-5502 A +50 Turn By Direct Method. | 30 mW to 6.4 kW | 0.24 % to 0.07 % |

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| 35 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 50Hz to 1kHz, | Using Multifunction Calibrator,Fluke-5502 A By Direct Method. | 1 mV to 10 mV | 2.5 % to 0.36 % |
| 36 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 50Hz to 1kHz, | Using Multifunction Calibrator, Fluke -5502A By Direct Method. | 10 mV to 100 mV | 0.36 % to 0.09 % |
| 37 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 50Hz to 1kHz, | Using Multifunction Calibrator ,Fluke -5502A By Direct / Comparison Method. | 10 V to 1000 V | 0.060 % to 0.064 % |
| 38 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 50Hz to 1kHz, | Using Multifunction Calibrator ,Fluke -5502A By Direct Method. | 100 mV to 10 V | 0.09 % to 0.06 % |
| 39 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct Method | 1 nF | 1.16 % |
| 40 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct Method | 100 nF | 1.16 % |

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| 41 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz, | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct / Comparison Method | 1 µF | 1.16 % |
| 42 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct Method | 1 µF | 1.16 % |
| 43 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct Method | 1 mF | 1.17 % |
| 44 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct Method | 10 µF | 1.16 % |
| 45 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct Method | 100 µF | 1.17% |
| 46 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance@ 1kHz | By using MFC Fluke 5502A by Direct Method | 1 nF to 100 µF | 2.0 % to 1.91 % |

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| 47 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Inductance @1 kHz | using Decade inductance box Vaiseshika/7500 by Direct method | 1 H | 1.16 % |
| 48 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Inductance @1 kHz | By using Decade inductance box Vaiseshika/7500 by Direct method | 1 mH | 1.16 % |
| 49 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Inductance @1 kHz | using Decade inductance box Vaiseshika/7500 by Direct/ Comparison method | 10 H | 1.16 % |
| 50 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Inductance @1 kHz | using Decade inductance box Vaiseshika/7500 by Direct/ Comparison method | 10 mH | 1.16 % |
| 51 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Inductance @1 kHz | By using Decade inductance Box Vaiseshikha/ 7500 by Direct Method | 100 µH | 1.16 % |
| 52 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Inductance @1 kHz | using Decade inductance box Vaiseshika/7500 by Direct method | 100 mH | 1.16 % |

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| 53 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Power Factor | Using Multifunction MultiProduct Calibrator,Fluke-5502A By Direct Method | 50Hz, 0.1 pF Lead-UPF to 0.1 pF Lag | 0.02pF |
| 54 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | AC Capacitance @1kHz | Using Multifunction Reference Multimeter,Fluke-8846A By Direct Method | 1 nF to 10 nF | 5.2 % to 1.75 % |
| 55 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | AC Capacitance @1kHz | Using Multifunction Reference Multimeter,Fluke-8846A By Direct Method. | 10 nF to 10 mF | 1.75 % to 2.21 % |
| 56 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | By using Reference Multimeter Fluke-8508A by Direct Method | 1 A to 10 A | 0.023 % to 0.09 % |
| 57 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | By using Reference Multimeter Fluke-8508A by Direct Method | 10 µA to 10 mA | 0.009 % to 0.0029 % |
| 58 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | By using Reference Multimeter Fluke-8508A by Direct Method | 10 A to 20 A | 0.051 % to 0.049 % |

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| 59 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | By using Reference Multimeter Fluke-8508A by Direct Method | 10 mA to 100 mA | 0.0029 % to 0.007 % |
| 60 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | By using Reference Multimeter Fluke-8508A by Direct Method | 100 mA to 1 A | 0.007 % to 0.023 % |
| 61 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | Using Reference Multimeter Fluke 8508A By Direct Method | 0.1 mV to 1 mV | 0.13 % to 0.016 % |
| 62 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | By using Reference Multimeter Fluke 8508A by Direct Method | 1 mV to 10 mV | 0.016 % to 0.004 % |
| 63 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | By using Reference Multimeter Fluke 8508 A by Direct Method | 1 V to 1000 V | 0.0007 % to 0.001 % |
| 64 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | using Reference Multimeter Fluke -8508A By Direct Method | 10 mV to 100 mV | 0.004 % to 0.001 % |

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| 65 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | By using Reference Multimeter Fluke-8508A by Direct Method | 100 mV to 1 V | 0.001 % to 0.0007 % |
| 66 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct Method | 1 M ohm to 10 M ohm | 0.002 % to 0.0043 % |
| 67 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct / Comparison Method | 1 m ohm to 10 m ohm | 0.47 % to 0.049 % |
| 68 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct Method | 1 ohm to 10 ohm | 0.0063 % to 0.0017 % |
| 69 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct Method | 10 k ohm to 1 M ohm | 0.001 % to 0.002 % |
| 70 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct Method | 10 m ohm to 100 m ohm | 0.052 % to 0.0071 % |

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| 71 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct Method | 10 M ohm to 100 M ohm | 0.0043 % to 0.026 % |
| 72 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference multimeter Fluke 8508A by Direct Method | 10 Ohm to 10 k Ohm | 0.0017 % to 0.001 % |
| 73 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct Method | 100 m ohm to 1 ohm | 0.0071 % to 0.0063 % |
| 74 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct Method | 100 M ohm to 10 G ohm | 0.026 % to 0.29 % |
| 75 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multifunction Calibrator Fluke-5502A By Direct/ Comparison Method | 1 A to 10 A | 0.050 % to 0.075 % |
| 76 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multifunction Calibrator - Fluke-5502A By Direct Method. | 1 mA to 100 mA | 0.02 % to 0.017 % |

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|---|---|---|---|---|---|
| 77 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multifunction Calibrator,Fluke-5502A By Direct Method | 10 µA to 100 µA | 0.26 % to 0.041 % |
| 78 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multifunction Calibrator Fluke-5502A By Direct Method. | 10 A to 20 A | 0.089 % to 0.13 % |
| 79 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multifunction Calibrator ,Fluke -5502A By Direct Method | 100 µA to 1 mA | 0.041 % to 0.02 % |
| 80 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multifunction Calibrator,Fluke-5502A By Direct Method. | 100 mA to 1 A | 0.017 % to 0.069 % |
| 81 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using MFC 5502A +50 Turn Currect Coil by Direct Method | 20 A to 1000 A | 0.91 % to 0.85 % |
| 82 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Resistance | By using MFC Fluke 5502A by Direct Method | 1 M Ohm to 10 M Ohm | 0.019 % to 0.07 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** ARCHERCAL PRIVATE LIMITED, B-103, TANVI'S TANISHKA INDUSTRIAL ESTATE, TANVI COMPLEX, S. V. ROAD, DAHISAR EAST, MUMBAI, MAHARASHTRA, INDIA

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|---|---|---|---|---|---|
| 83 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Resistance | Using Multifunction Calibrator ,Fluke -5502A By Direct Method. | 1 ohm to 10 ohm | 0.58 % to 0.069 % |
| 84 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Resistance | Using Multifunction Calibrator ,Fluke -5502A By Direct / Comparison Method. | 10 M ohm to 100 M ohm | 0.070 % to 0.58 % |
| 85 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Resistance | Using Multi function Calibrator,Fluke -5502A By Direct Method | 10 ohm to 100 k ohm | 0.06 % to 0.014 % |
| 86 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Resistance | Using Multifunction Calibrator ,Fluke -5502A By Direct Method. | 100 k ohm to 1 M ohm | 0.014 % to 0.019 % |
| 87 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Resistance | Using Multifunction Calibrator ,Fluke -5502A By Direct Method. | 100 M ohm to 1 G ohm | 0.58 % to 1.75 % |
| 88 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Resistance | By using MFC Fluke 5502A by Direct Method | 100 m Ohm to 1 Ohm | 0.8 % to 0.58 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | ARCHERCAL PRIVATE LIMITED, B-103, TANVI'S TANISHKA INDUSTRIAL ESTATE, TANVI COMPLEX, S. V. ROAD, DAHISAR EAST, MUMBAI, MAHARASHTRA, INDIA |
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|---|---|---|---|---|---|
| 89 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage | using Multifunction calibration Fluke 5502A direct Method | 1 mV to 10 mV | 0.36 % to 0.043 % |
| 90 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage | using Multifunction calibrator,Fluke-550 2A By Direct Method | 1 V to 100 V | 0.064 % to 0.0072 % |
| 91 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage | using Multifunction calibrator,Fluke-550 2A By Direct Method | 10 mV to 100 mV | 0.043 % to 0.011 % |
| 92 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage | using Multifunction calibrator,Fluke-550 2A By Direct Method | 100 mV to 1 V | 0.011 % to 0.064 % |
| 93 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage | using Multifunction calibrator,Fluke-550 2A By Direct/Comparison Method | 100 V to 1000 V | 0.0072 % to 0.0066 % |

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**Laboratory Name :** ARCHERCAL PRIVATE LIMITED, B-103, TANVI'S TANISHKA INDUSTRIAL ESTATE, TANVI COMPLEX, S. V. ROAD, DAHISAR EAST, MUMBAI, MAHARASHTRA, INDIA

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|---|---|---|---|---|---|
| 94 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 1 G ohm | 1.41 % |
| 95 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 1 k ohm | 0.6 % |
| 96 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 1 M Ohm | 1.0 % |
| 97 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 1 T ohm | 8.33 % |
| 98 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 10 G ohm | 1.7 % |

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|---|---|---|---|---|---|
| 99 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 10 k ohm | 0.06 % |
| 100 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 10 M OHM | 1.4 % |
| 101 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 100 G ohm | 3.8 % |
| 102 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 100 k ohm | 0.6 % |
| 103 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 100 M ohm | 1.4 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** ARCHERCAL PRIVATE LIMITED, B-103, TANVI'S TANISHKA INDUSTRIAL ESTATE, TANVI COMPLEX, S. V. ROAD, DAHISAR EAST, MUMBAI, MAHARASHTRA, INDIA

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|---|---|---|---|---|---|
| 104 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Milli Ohm Meter Calibrator Vaiseshikha-9409 CAL by Direct Method | 1 m ohm | 0.16 % |
| 105 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Milli Ohm Meter Calibrator Vaiseshikha-9409 CAL by Direct Method | 1 ohm | 0.07 % |
| 106 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Miliohm meter calibrator Vaiseshika -9409 Cal by Direct Method | 10 µ Ohm | 3.2 % |
| 107 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Milli Ohm Meter Calibrator Vaiseshikha-9409 CAL by Direct Method | 10 µ ohm | 3.48 % |
| 108 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Milli Ohm Meter Calibrator Vaiseshikha-9409 CAL by Direct Method | 10 m ohm | 0.08 % |

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|---|---|---|---|---|---|
| 109 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Milli Ohm Meter Calibrator Vaiseshikha-9409 CAL by Direct/Comparison Method | 100 µ ohm to | 1.6 % |
| 110 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Milli Ohm Meter Calibrator Vaiseshikha-9409 CAL by Direct Method | 100 m ohm | 0.07 % |
| 111 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Milli Ohm Meter Calibrator Vaiseshikha-9409 CAL by Direct Method | 2 ohm | 0.07 % |
| 112 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 100 M Ohm | 1.4 % |
| 113 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | B -Type | Using Multiproduct Calibrator ,Fluke-5520A, Using ITS-90 Scale by Simulation Method | 600 °C to 1800 °C | 0.83 °C |

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**Laboratory Name :** ARCHERCAL PRIVATE LIMITED, B-103, TANVI'S TANISHKA INDUSTRIAL ESTATE, TANVI COMPLEX, S. V. ROAD, DAHISAR EAST, MUMBAI, MAHARASHTRA, INDIA

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|---|---|---|---|---|---|
| 114 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | E -Type TC | Using Multiproduct Calibrator ,Fluke -5520A,Using ITS -90 ScaleV Method by Simulation Method | (-)100 °C to 1000 °C | 0.66 °C |
| 115 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | J -Type TC | Using Multiproduct Calibrator Fluke -5520A Using ITS-90 Scale by Simulation Method | (-)200 °C to 1200 °C | 0.45 °C |
| 116 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | K -Type TC | Using Multiproduct Calibrator Fluke -5520A Using ITS-90 Scale by Simulation Method | (-)200 °C to 1370 °C | 0.61 °C |
| 117 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | N -Type TC | Using Multiproduct Calibrator ,Fluke -5520 A ,Using ITS-90 Scale by Simulation Method | (-)200 °C to 1300 °C | 0.47°C |
| 118 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | R -Type TC | Using Multiproduct Calibrator ,Fluke -5520A,Using ITS-90 scale by Simulation Method | 2 °C to 1769 °C | 0.67°C |

# SCOPE OF ACCREDITATION

**Laboratory Name :** ARCHERCAL PRIVATE LIMITED, B-103, TANVI'S TANISHKA INDUSTRIAL ESTATE, TANVI COMPLEX, S. V. ROAD, DAHISAR EAST, MUMBAI, MAHARASHTRA, INDIA

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|---|---|---|---|---|---|
| 119 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | RTD (PT-100) | Using Multiproduct calibrator,Fluke 5520A Using ITS-90 Scale for ohm &mV Method by Simulation Method | (-) 200 °C to 800 °C | 0.39 °C |
| 120 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | S -Type TC | Using Multiproduct Calibrator ,Fluke -5520A,Using ITS-90 scale by Simulation Method | 2 °C to 1769 °C | 0.84 °C |
| 121 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | T -Type TC | Using Multiproduct Calibrator ,Fluke -5520 A ,Using ITS-90 Scale by Simulation Method | (-)200 °C to 400 °C | 0.80 °C |
| 122 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Digital/Analogue stop watch, Digital Timer | Using Time Interval Meter by Comparison Method | 1 hr to 5 hr | 6.65 s to 24.62 s |
| 123 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Digital/Analogue stop watch, Digital Timer | Using Time Interval Meter by Comparison Method | 1 s to 60 s | 0.14 s to 0.16 s |

# SCOPE OF ACCREDITATION

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|---|---|---|---|---|---|
| 124 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Digital/Analogue Stop watch, Digital Timer | Using Time Interval Meter by Comparison Method | 200 ms to 1 s | 0.07 s to 0.14 s |
| 125 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Digital/Analogue stop watch, Digital Timer | Using Time Interval Meter by Comparison Method | 5 hr to 27 hr | 24.62 s to 26 s |
| 126 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Digital/Analogue stop watch, Digital Timer | Using Time Interval Meter by Comparison Method | 60 s to 1 hr | 0.16 s to 6.65 s |
| 127 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Frequency measurement for MFC's, DMM | By using Reference Multimeter Fluke-8508A by Direct / Comparison Method | 10 Hz to 1 MHz | 0.0013 % to 0.0012 % |
| 128 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source) | Frequency meter, DMM | Using Multifunction Multiproduct Calibrator, Fluke 5502A By Direct Method. | 10 Hz to 1 MHz | 0.062 % to 0.0021 % |

# SCOPE OF ACCREDITATION

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|---|---|---|---|---|---|
| 129 | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator | Using Digital Tachometer & Mechanical type Tachometer Calibrator By Comparison Method | 10 rpm to 20000 rpm | 2.0rpm |
| 130 | MECHANICAL-ACCELERATION AND SPEED | Tachometer (contact Mode) | Using Digital Tachometer & Mechanical type Tachometer Calibrator By Comparison Method | 10 rpm to 1000 rpm | 3.4rpm |
| 131 | MECHANICAL-ACCELERATION AND SPEED | Tachometer (contact Mode) | Using Digital Tachometer & Mechanical type Tachometer Calibrator By Comparison Method | 1000 rpm to 5000 rpm | 6.6rpm |
| 132 | MECHANICAL-ACCELERATION AND SPEED | Tachometer (Noncontact Type) | Using Digital Tachometer & Mechanical type Tachometer Calibrator By Comparison Method | 10 rpm to 100 rpm | 3rpm |
| 133 | MECHANICAL-ACCELERATION AND SPEED | Tachometer (Noncontact Type) | Using Digital Tachometer & Mechanical type Tachometer Calibrator By Comparison Method | 100 rpm to 10000 rpm | 14.6rpm |

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|---|---|---|---|---|---|
| 134 | MECHANICAL-ACCELERATION AND SPEED | Tachometer (Noncontact Type) | Using Digital Tachometer & Mechanical type Tachometer Calibrator By Comparison Method | 10000 rpm to 90000 rpm | 15.0rpm |
| 135 | MECHANICAL-ACOUSTICS | Sound level meter @ 1 kHz | By using Sound Level calibrator by Direct/Comparison Method | 94 dB | 0.58 dB |
| 136 | MECHANICAL-ACOUSTICS | Sound Level Meter @1kHz | By using Sound Level Calibrator by Direct/Comparison Method | 114 dB | 0.58 dB |
| 137 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Bevel Protractor / Combination set/ Angle Protractor L.C. 1 Min | Using Angle Gauge Set | 0 to 360 ° | 5.0min of arc. |
| 138 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Bore Gauge (Transmission Movement Only) L.C 0.001 mm | Using Length Measuring Machine By Comparison Method. | 0 to 1 mm | 1µm |

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|---|---|---|---|---|---|
| 139 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | caliper (vernier/Dial/Digital) L.C 0.01mm | using caliper checker/Long Gauge Blocks By Comparison Method | Up to 600 mm | 13µm |
| 140 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | caliper (vernier/Dial/Digital) L.C 0.01mm | using Caliper Checker /Long Gauge Blocks By Comparison Method | up to 1000 mm | 18µm |
| 141 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Coating Thickness Gauge L.C. 0.001mm | Using Standard Plastics Foils By Comparison Method | Up to 732 µm | 1.2µm |
| 142 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Cylindrical Measuring Pins | Using Length Measuring Machine By comparison Method | 0.1 mm to 20 mm | 1.0µm |
| 143 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Depth Caliper (Vernier/Dial/Digital) L.C 0.01mm | Using Gauge Block set,Long Gauge Block, & Surface Plate By Comparison Method | up to 300 mm | 9µm |

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|---|---|---|---|---|---|
| 144 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Depth Micrometer (Traverse) L.C 0.01 mm | Using Gauge Block Set,Long Gauge Block Set & Surface Plate By Comparison Method as per JIS B 7544 | up to 150 mm | 8.5µm |
| 145 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial Gauge (Lever Type) L.C 0.001mm | Using Length Measuring Machine By Comparison Method | 0 to 0.14 mm | 1µm |
| 146 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial Gauge (Lever Type) L.C 0.01 mm | Using Length Measuring Machine By Comparison Method | 0 to 1 mm | 6µm |
| 147 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial Gauge (Plunger Type) L.C 0.001mm | Using Length Measuring Machine By Comparison Method | 0 to 25 mm | 1µm |
| 148 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial Thickness Gauge L.C 0.001 mm | Using Slip Gauge Set By Comparison Method. | 0 to 50 mm | 1µm |

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|---|---|---|---|---|---|
| 149 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | External Micrometer L.C 0.001 mm | Using Gauge Block Set,Long Gauge Block By Comparison Method | 25 mm to 300 mm | 4.7µm |
| 150 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | External Micrometer L.C 0.001 mm | Using Gauge Block Set,Long Gauge Block By Comparison Method | up to 25 mm | 1µm |
| 151 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | External Micrometer L.C 0.01 mm | Using Gauge Block Set,Long Gauge Block By Comparison Method | 300 mm to 500 mm | 10µm |
| 152 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Feeler Gauge | Using Length Measuring Machine By Comparison Method | 0.03 mm to 1 mm | 1µm |
| 153 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Height Gauge (Vernier/Dial/Digital) L.C. 0.01mm | Using Caliper Checker,Surface Plate By Comparison Method | up to 600 mm | 13µm |

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|---|---|---|---|---|---|
| 154 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Internal Micrometer (Stick Type) L.C 0.01 mm | Using LMM,Long Gauge Block,Comparator Dial By Comparison Method | Head Travel 50.0 mm to 63 mm | 6µm |
| 155 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Internal Micrometer (Stick Type) L.C 0.01 mm | Using LMM,Long Gauge Block,Comparator Dial By Comparison Method | Overall length 50 to 30 mm | 11µm |
| 156 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Measuring Scale L.C. 1 mm | Using Tape & Scale Measuring Machine By Comparison Method | up to 1000 mm | 290vL µm (L in mtr) |
| 157 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Measuring Tape L.C. 1 mm | Using Tape & Scale Measuring Machine By Comparison Method based on IS 1269 | up to 50000 mm | 290 v L ( L in mtr)µm |
| 158 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Micrometer Setting Standard | Using Length Measuring Machine,Gauge Block Set,Comparator Dial By Comparison Method. | 100 mm to 300 mm | 4.9µm |

# SCOPE OF ACCREDITATION

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|---|---|---|---|---|---|
| 159 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Micrometer Setting Standard | Using Length Measuring Machine,Gauge Block Set ,Comparator Dial By Comparison Method. | 25 mm to 100 mm | 2µm |
| 160 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Pistol Caliper L.C 0.1 mm | Using Slip Gauge Set By Comparison Method | 0 to 50 mm | 70µm |
| 161 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Plug Gauge / OD Gauge | Using Length Measuring Machine By Comparison Method | 100 mm to 300 mm | 4.9µm |
| 162 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Plug Gauge / OD Gauge | Using Length Measuring Machine By Comparison Method | 3 mm to 100 mm | 2.0µm |
| 163 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Ring Gauge | Using Length Measuring Machine By Comparison Method | 100 mm to 300 mm | 4.4µm |

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|---|---|---|---|---|---|
| 164 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Ring Gauge | Using Length Measuring Machine By Comparison Method | 3 mm to 100 mm | 2.0µm |
| 165 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Snap Gauge / Gap Gauge | Using Length Measuring Machine By Comparison Method | 3 mm to 50 mm | 1.2µm |
| 166 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Snap Gauge / Gap Gauge | Using Length Measuring Machine By Comparison Method | 50 mm to 300 mm | 4.0µm |
| 167 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thickness Gauge | Using Length Measuring Machine By Comparison Method. | 0.01 mm to 5 mm | 1µm |
| 168 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Plug Gauge (Effective Diameter) | Using Length Measuring Machine Setting Disc, Standard Wires By Comparison Method | 3 mm to 100 mm | 1.3µm |

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|---|---|---|---|---|---|
| 169 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Plug Gauge (Effective Diameter) | Using Length Measuring Machine Setting Disc,Standard Wires By Comparison Method | 100 mm to 300 mm | 5.0µm |
| 170 | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Ring Gauge (Effective Diameter) | Using Length Measuring Machine ,Master Setting Ring By Comparison Method | 5 mm to 100 mm | 3.20µm |
| 171 | MECHANICAL-PRESSURE INDICATING DEVICES | Digital Pressure Indicator ,Manometer Magnahelic Gauge ,Low Pressure Gauge ,Pressure Transmitter,Pressure Switches Differential Pressure Gauges /Indicators - (Pneumatic Pressure) | Using Digital Pressure indicator, Calibrator Make: Polltech Instrument & Test pump , 6.5 Digit DMM Calibrator by Comparison method DKD-R6-01 | 0 to 200 mbar | 0.1mbar |

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|---|---|---|---|---|---|
| 172 | MECHANICAL-PRESSURE INDICATING DEVICES | Digital/Analog Pressure Gauges,Indicators,Pressure Transmitter,Pressure Switch,Differential Pressure Gauge/Indicators -(Pneumatic Pressure) | Using Digital Pressure Gauge & Pneumatic Test Pump, 6.5 Digit DMM Calibrator by Comparison Method DKD-R6-01 | 0 to 2 bar | 0.0006bar |
| 173 | MECHANICAL-PRESSURE INDICATING DEVICES | Digital/Analog Pressure Gauges,Pressure Indicators,Pressure Transmitter,Pressure Switches -(Hydraulic Pressure) | Using Digital Pressure Gauge & Pneumatic Test Pump , 6.5 Digit DMM Calibrator By Comparison Method DKD-R6-01 | 1 bar to 350 bar | 0.07bar |
| 174 | MECHANICAL-PRESSURE INDICATING DEVICES | Digital Pressure Indicator ,Manometer Magnahelic Gauge ,Low Pressure Gauge ,Pressure Transmitter,Pressure Switches Differential Pressure Gauges /Indicators -(Pneumatic Pressure) | Using Digital Pressure indicator, Calibrator Make: Polltech Instrument & Test pump and 6.5 Digit DMM Calibrator by Comparison method DKD-R6-01 | 0 to 20 mbar | 0.012mbar |

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|---|---|---|---|---|---|
| 175 | MECHANICAL-PRESSURE INDICATING DEVICES | Digital/Analog Pressure Gauges,Indicators,Pressure Transmitter,Pressure Switch,Differential Pressure Gauge/Indicators (Pneumatic Pressure) | Using Digital Pressure Gauge & Pneumatic Test Pump , 6.5 Digit DMM Calibrator By comparison method DKD-R6-01 | -0.95 bar to 0 | 0.0007bar |
| 176 | MECHANICAL-PRESSURE INDICATING DEVICES | Digital/Analog Pressure Gauges,Indicators,Pressure Transmitter,Pressure Switch,Differential Pressure Gauge/Indicators - (Pneumatic Pressure) | Using Digital Pressure Gauge & Pneumatic Test Pump , 6.5 Digit DMM Calibrator By Comparison Method DKD-R6-01 | 0 to 10 bar | 0.006bar |
| 177 | MECHANICAL-PRESSURE INDICATING DEVICES | Digital/Analog Pressure Gauges,Indicators,Pressure Transmitter,Pressure Switch,Differential Pressure Gauge/Indicators - (Pneumatic Pressure) | Using Digital Pressure Gauge & Pneumatic Test Pump , 6.5 Digit DMM Calibrator By Comparison Method DKD-R6-01 | 0 to 35 bar | 0.007bar |

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|---|---|---|---|---|---|
| 178 | MECHANICAL-PRESSURE INDICATING DEVICES | Digital/Analog Pressure Gauges,Pressure Indicators,Pressure Transmitter,Pressure Switches - (Hydraulic Pressure) | Using Digital Pressure Gauge & Pneumatic Test Pump, 6.5 Digit DMM Calibrator By Comparison Method DKD-R6-01 | 350 bar to 1000 bar | 0.61bar |
| 179 | MECHANICAL-TORQUE GENERATING DEVICES | Torque Screw Driver/Torque Wrench (Type I and Type II) | By using Torque sensor & display unit as per ISO 6789:2017 standard | 0 to 10 Nm | 1.57% |
| 180 | MECHANICAL-TORQUE GENERATING DEVICES | Torque Screw Driver/Torque Wrench (Type I and Type II) | By using Torque Sensor and Display unit as per ISO 6789:2017 standard | 0.1 Nm to 1 Nm | 1.28% |
| 181 | MECHANICAL-TORQUE GENERATING DEVICES | Torque Wrench (Type I and Type II) | By using Torque sensor & Display unit as per ISO 6789:2017 standard | 10 Nm to 100 Nm | 1.43% |
| 182 | MECHANICAL-TORQUE GENERATING DEVICES | Torque Wrench (Type I and Type II) | By using Torque sensor & Display unit as per ISO 6789:2017 standard | 100 Nm to 1000 Nm | 1.3% |

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|---|---|---|---|---|---|
| 183 | MECHANICAL-VOLUME | Glassware like pipettes ,burettes,measuring cylinder,volumetric flask @27°C | Using Weighing balance of cap. 82 g /220g, readability d=0.01mg/ 0.1mg and distilled water by Gravimetric method based on IS/ISO 4787 | >50 ml to 100 ml | 0.14ml |
| 184 | MECHANICAL-VOLUME | Glassware like pipettes ,burettes,measuring cylinder,volumetric flask @27°C | Using Weighing balance of 1 kg capacity and 1 mg readability and distilled water by Gravimetric method based on IS/ISO 4787 | 100 ml to 500 ml | 0.24ml |
| 185 | MECHANICAL-VOLUME | Glassware like pipettes ,burettes,measuring cylinder,volumetric flask@27°C | Using Weighing balance of 220g capacity and 0.01mg readability and distilled water by Gravimetric method based on IS/ISO4787 | >10 ml to 50 ml | 0.03ml |
| 186 | MECHANICAL-VOLUME | Glassware like pipettes ,burettes,measuring cylinder,volumetric flask@27°C | Using Weighing balance of cap. 82 g /220g, readability d=0.01mg/ 0.1mg and distilled water by Gravimetric method based on IS/ISO 4787 | 1 ml to 10 ml | 0.01ml |

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|---|---|---|---|---|---|
| 187 | MECHANICAL-VOLUME | Micro-pipette @27°C | Using Weighing balance of 5g Capacity and 0.001mg readability and 82 g capacity and 0.01mg readability and distilled water by Gravimetric method based on ISO 8655 parts 6 | 1 µl to 100 µl | 0.015µl |
| 188 | MECHANICAL-VOLUME | Micro-pipette@27°C | Using Weighing balance of cap. 82 g /220g, readability d=0.01mg/ 0.1mg and Weighing balance of Cap. 5.1 g, d= 0.001 mg and distilled water by Gravimetric method based on ISO 8655 parts 6 | >100 µl to 10 ml | 0.6µl |
| 189 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance of Class I & Coarser with Readability d=0.1µg & Cap. 2.1 g | Using E1 Class Weights as per OIML R-76-1 | 0 to 2.1 g | 0.004mg |

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|---|---|---|---|---|---|
| 190 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic, Weighing Balances and Comparator of Class I and Coarser with Readability d= 0.001 mg | Using E1 Class Weights as per OIML R-76-1 | 0 to 100 g | 0.015mg |
| 191 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balance and Compartor of Class I & Coarser with Readability d= 0.001 mg | Using E1 Class Weights ser as per OIML R-76-1 | 0 to 5 g | 0.005mg |
| 192 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balances and Comparator of Class I and Coarser with Readability d= 0.1 mg | Using E1 Class Weights as per OIML R-76-1 | 0 to 5000 g | 0.7mg |
| 193 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balances and Comparator of Class II and Coarser with Readability d= 10 mg | Using E2 Class Weights as per OIML R-76-1 | 0 to 25 kg | 16mg |
| 194 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balances and Compartor of Class I & Coarser with Readability d= 0.001 mg | Using E1 Class Weights as per OIML R-76-1 | 0 to 20 g | 0.01mg |

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|---|---|---|---|---|---|
| 195 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balances and Compartor of Class I & Coarser with Readability d= 0.01 mg | Using E1 Class Weights as per OIML R-76-1 | 0 to 200 g | 0.03mg |
| 196 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balances and Compartor of Class I and Coarser with Readability d= 0.01 mg | Using E1 Class Weights as per OIML R-76-1 | 0 to 1000 g | 0.14mg |
| 197 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balances and Compartor of Class II & Coarser with Readability d= 100 mg | Using E2 Class Weights as per OIML R-76-1 | 0 to 25 kg | 200mg |
| 198 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balances of Class III & Coarser with Readability d= 1g | Using F1 Class Weight as per OIML R-76-1 | 0 to 100 kg | 6g |
| 199 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balances of Class IV & Coarser with Readability d= 50g | Using F1 Class Weights as per OIML R-76-1 | 0 to 400 kg | 54g |

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|---|---|---|---|---|---|
| 200 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004 | 1 g | 0.004mg |
| 201 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.01 mg & Cap. 1.02 kg as per OIML R111-1 : 2004 | 1 kg | 0.21mg |
| 202 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy Class & Coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004 | 1 mg | 0.002mg |
| 203 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.01 mg & Cap. 1.02 kg as per OIML R111-1 : 2004 | 10 g | 0.02mg |

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|---|---|---|---|---|---|
| 204 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Class Weights and Mass Comparator of readability 0.001mg-Calibration of Weigths class E2 Accuracy & Coarser as per OIML R-111 | 10 mg | 0.002mg |
| 205 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.01 mg & Cap. 1.02 kg as per OIML R111-1 : 2004 | 100 g | 0.03mg |
| 206 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004 | 100 mg | 0.002mg |
| 207 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004 | 2 g | 0.004mg |

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|---|---|---|---|---|---|
| 208 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.1 mg & Cap. 5.05 kg as per OIML R111-1 : 2004 | 2 kg | 0.5mg |
| 209 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy Class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004 | 2 mg | 0.002mg |
| 210 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.01 mg & Cap. 1.02 kg as per OIML R111-1 : 2004 | 20 g | 0.02mg |
| 211 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004 | 20 mg | 0.002mg |

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|---|---|---|---|---|---|
| 212 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.01 mg & Cap. 1.02 kg as per OIML R111-1 : 2004 | 200 g | 0.05mg |
| 213 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004 | 200 mg | 0.002mg |
| 214 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004 | 5 g | 0.005mg |
| 215 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.1 mg & Cap. 5.05 kg as per OIML R111-1 : 2004 | 5 kg | 0.8mg |

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|---|---|---|---|---|---|
| 216 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004 | 5 mg | 0.002mg |
| 217 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.01 mg & Cap. 1.02 kg as per OIML R111-1 : 2004 | 50 g | 0.02mg |
| 218 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004 | 50 mg | 0.002mg |
| 219 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.01 mg & Cap. 1.02 kg as per OIML R111-1 : 2004 | 500 g | 0.1mg |

# SCOPE OF ACCREDITATION

| | |
|---|---|
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|---|---|---|---|---|---|
| 220 | MECHANICAL-WEIGHTS | Weights (E2 Accuracy class & coarser) | Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004 | 500 mg | 0.004mg |
| 221 | MECHANICAL-WEIGHTS | Weights (F1 Accuracy class & coarser) | Using E2 Accuracy Class reference Weights and Mass Comparator of readability 0.01 g & Cap. 25.5 kg as per OIML R111-1 : 2004 | 10 kg | 10mg |
| 222 | MECHANICAL-WEIGHTS | Weights (F1 Accuracy class & coarser) | Using E2 Accuracy Class reference Weights and Mass Comparator of readability 0.01 g & Cap. 25.5 kg as per OIML R111-1 : 2004 | 20 kg | 13mg |
| 223 | THERMAL-SPECIFIC HEAT & HUMIDITY | Environmental chamber, Control Storage Room ,Cold Room (Multi position calibration Using 9 Nos. Sensor) | By Using Wireless Data Logger (100 Nos.) at multiposition calibration by spatial mapping comparison method | 10 °C to 50 °C | 2.30°C |

# SCOPE OF ACCREDITATION

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|---|---|---|---|---|---|
| 224 | THERMAL-SPECIFIC HEAT & HUMIDITY | Humidity Calibrator /Generator/Environmental chamber, Control Storage Room (Multi position calibration by Max 100 Nos. Sensor) @25 °C | Using Wireless Data Logger at multiposition calibration by spatial mapping comparison method | 10 % to 95 % | 4%RH |
| 225 | THERMAL-SPECIFIC HEAT & HUMIDITY | Humidity Calibrator /Generator/Environmental chamber, Control Storage Room (Multi position calibration Using upto max. 09 Nos. Sensors ) @25°C | Using multipoint Data logger Yokogawa Mdel:GP 10 and Rotronic Make RH &Temperature Probe sensors & at multiposition calibration by spatial mapping comparison method | 10 %RH to 95 %RH | 3.9%RH |
| 226 | THERMAL-SPECIFIC HEAT & HUMIDITY | Indicator of Humidity calibrator /Generator/Environmental Chamber (Single point calibration) @25°C | Rotronic RH &Temp Probe with Indicator by comparison method . | 10 %RH to 90 %RH | 0.51% RH |

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|---|---|---|---|---|---|
| 227 | THERMAL-SPECIFIC HEAT & HUMIDITY | Relative Humidity Sensors with Indicator ,Hygrometer /Humidity Data Logger Humidity Transmitter with sensor @25°C | Using MICHELL RH Generator & Rotronic RH & Temp Probe with Indicator By Comparison Method | 10 %RH to 90 %RH | 0.54%RH |
| 228 | THERMAL-SPECIFIC HEAT & HUMIDITY | Relative Humidity Sensors with Indicator ,Hygrometer /Humidity Data Logger Humidity Transmitter with sensor @50%RH | Using MICHELL RH Generator & Rotronic RH & Temp Prob with Indicator By comparison Method | 10 °C to 50 °C | 0.35°C |
| 229 | THERMAL-TEMPERATURE | Temperature Furnace at Multi Positions calibration by using max. upto 09 sensors) | Using Multipoint Data Logger Yokogawa,Model:GP 10 and 3 wire RTD (PT-100) SENSORS & at multi position calibration by comparision method | 25 °C to 400 °C | 1.5 °C |

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|---|---|---|---|---|---|
| 230 | THERMAL-TEMPERATURE | Environmental Chamber at Multi Positions calibration by using max. upto 09 sensors) | Using Multipoint Data Logger Yokogawa,Model:GP 10 and 3 wire RTD (PT-100) SENSORS & at multi position calibration by comparision method | (-)80 °C to 20 °C | 1.5°C |
| 231 | THERMAL-TEMPERATURE | Glass Thermometer | Using SPRT with Model:935-14-95L & 934-14-95H WITH Millik Precision Thermometer Temperature Source:Stirred Liquid Bath ,Model:Hydra 798 L By Comparison Method | (-)80 °C to 0 | 0.08°C |
| 232 | THERMAL-TEMPERATURE | Glass Thermometer | Using SPRT with Model:935-14-95L &934-14-95H with Millik Precision Thermometer Temperature Source: Stirred Liquid Bath Model:Hydra 798 By Comparison Method | 0 to 300 °C | 0.6°C |

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|---|---|---|---|---|---|
| 233 | THERMAL-TEMPERATURE | Indicator of Liquid Bath,Oil Bath, Dry Block Calibrators Furnace . | Using SPRT with Model:935-14-95L& 34-14-95H with Millik Preci9sion Thermometer (Single Point Calibration) By comparison Method. | (-80) °C to 300 °C | 0.06°C |
| 234 | THERMAL-TEMPERATURE | Indicator of Oven, Heating Chambers,Water Bath | Using SPRT with Model:935-14-95L& 34-14-95H with Millik Preci9sion Thermometer (Single Point Calibration) By comparison Method | 25 °C to 300 °C | 0.06 °C |
| 235 | THERMAL-TEMPERATURE | Indicator of oven, Muffle Furnace, Heating chambers, Dry Block Calibrators Furnace | Using SPRT with Model:935-14-95L& 34-14-95H with Millik Preci9sion Thermometer (Single Point Calibration) By comparison Method (Single Point Calibration) | 300 °C to 600 °C | 0.2°C |

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|---|---|---|---|---|---|
| 236 | THERMAL-TEMPERATURE | RTD/PRT/ Thermocouple Sensor with or without Indicator ,Temperature Transmitter with Sensor ,Recorder with Sensor | Using SPRT with Model:935-14-95L & 934-14-95H With Millik Precision Thermometer Temperature Source:Stirred Liquid Bath Model:Hydra 798 L By Comparison Method | (-)80 °C to 0 | 0.016°C |
| 237 | THERMAL-TEMPERATURE | RTD/PRT/ Thermocouple Sensor with or without Indicator ,Temperature Transmitter with Sensor ,Recorder with Sensor | Using SPRT with Model:935-14-95L & 934-14-95H With Millik Precision Thermometer Temperature Source:Stirred Liquid Bath Model:Hydra 798 L By Comparison Method | 0 to 300 °C | 0.02°C |
| 238 | THERMAL-TEMPERATURE | RTD/PRT/ Thermocouple Sensor with or without Indicator ,Temperature Transmitter with Sensor ,Recorder with Sensor | Using SPRT with Model 934-14-95H with Milik Precision Thermometer Temperature Source:Dry block calibrator Model:Pegasus 4853 By Comparison Method | 300 °C to 600 °C | 0.2°C |

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|---|---|---|---|---|---|
| 239 | THERMAL-TEMPERATURE | RTD/PRT/with or without Indicator ,Temperature Transmitter with Sensor ( Fixed Point ) | Using SPRT with Model:935-14-95L & 934-14-95H WITH Millik Precision Thermometer Temperature Source: Liquid N2 Bath By Comparison Method | -196 °C | 0.02°C |
| 240 | THERMAL-TEMPERATURE | Temperature Indicator of Muffle Furnace,Dry Block Calibrator (Using single point calibration) | Using R Type Thermometer with Millik Precision Thermometer By Comparison Method (Single Point Calibration) | 1100 °C to 1190 °C | 1.6°C |
| 241 | THERMAL-TEMPERATURE | Temperature Indicator of Muffle Furnace,Dry Block Calibrator (Using single point calibration) | Using R Type Thermometer with Millik Precision Thermometer By Comparison Method (Single Point Calibration) | 600 °C to 1100 °C | 1.35°C |

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|---|---|---|---|---|---|
| 242 | THERMAL-TEMPERATURE | Thermocouple with or without indicator Temperature Transmitter with sensor, Thermistor | Using R type Thermometer with Millik Precision Thermometer Temperature Source:Dry Block calibrator,Model:Pegasus 4853 By Comparison Method | 1100 °C to 1190 °C | 1.5°C |
| 243 | THERMAL-TEMPERATURE | Thermocouple with or without indicator Temperature Transmitter with sensor, Thermistor | Using R Type Thermocouple with Millik Precision Thermometer Temperature Source:Dry Block Calibrator ,Model:Pegasus 4853 By Comparison Method | 600 °C to 1100 °C | 1.35°C |

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|---|---|---|---|---|---|
| Site Facility | | | | | |
| 1 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 10 kHz | By using Reference Multimeter Fluke-8508A by Direct Method | 1 A to 20 A | 0.11 % to 0.30 % |
| 2 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz to 1 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 1 A to 20 A | 0.10 % to 0.12 % |
| 3 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz to 10 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 100 µA to 1 mA | 0.08 % to 0.058 % |
| 4 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz to 10 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 100 mA to 1 A | 0.060 % to 0.11 % |

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|---|---|---|---|---|---|
| 5 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz to 10 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 1 mA to 100 mA | 0.058 % to 0.060 % |
| 6 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @10 Hz, | By using Reference Multimeter Fluke-8508A by Direct Method | 100 mA to 1 A | 0.06 % to 0.11 % |
| 7 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @10 Hz, | By using Reference Multimeter Fluke-8508A by Direct Method | 100 µA to 100 mA | 0.08 % to 0.06 % |
| 8 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Power & Active Energy Single Phase & Three Phase @ 50 Hz, 240 V/ 1 mA to 100 A at UPF, 0.5PF & 0.8 PF | By using Reference Energy Meter ZERA-MT310 by Comparison Method | 0.12 W to 72 kW | 0.076% |
| 9 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Resistance @ 1 kHz | By using RLC Digibridge GenRad 1658 by Direct Method | 100 Ohm to 10 k Ohm | 0.12 % to 0.42 % |

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|---|---|---|---|---|---|
| 10 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Resistance @1 kHz | By using RLC Digibridge GenRad 1658 by Direct Method | 1 Ohm to 100 Ohm | 0.12% |
| 11 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 10 Hz | By using Reference Multimeter Fluke-8508A by Direct Method | 10 mV to 10 V | 0.08 % to 0.036 % |
| 12 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 10 Hz | By using Reference Multimeter Fluke-8508A by Direct Method | 10 V to 100 V | 0.036 % to 0.044 % |
| 13 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 10 Hz, | By using Reference Multimeter Fluke-8508A by Direct Method | 1 mV to 10 mV | 0.93 % to 0.08 % |
| 14 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 10 kHz | By using Reference Multimeter Fluke-8508A by Direct Method | 1 mV to 10 mV | 0.62 % to 0.069 % |

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|---|---|---|---|---|---|
| 15 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 10 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 10 mV to 100 mV | 0.069 % to 0.017 % |
| 16 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 10 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 100 mV to 100 V | 0.017 % to 0.013 % |
| 17 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 100 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 10 mV to 100 mV | 0.33 % to 0.12 % |
| 18 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 100 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 100 mV to 10 V | 0.12 % to 0.031 % |
| 19 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 50 Hz to 1 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 1 mV to 100 mV | 0.57 % to 0.02 % |

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|---|---|---|---|---|---|
| 20 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 50 Hz to 1 kHz, | By using Reference Multimeter Fluke-8508A by Direct Method | 100 mV to 100 V | 0.020 % to 0.013 % |
| 21 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 50 Hz to 10 kHz | By using Reference Multimeter Fluke-8508A by Direct Method | 100 V to 1000 V | 0.013 % to 0.017 % |
| 22 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Capacitance @ 1 kHz | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct Method | 10 nF | 1.16 % |
| 23 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Capacitance@1 kHz | By using RLC Digibridge GenRad 1658 by Direct/ Comparision Method | 1 nF to 100 µF | 0.12 % |
| 24 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Inductance @1 kHz | By using RLC Digibrigde GenRad 1658 by Direct / Comparison Method | 1 mH to 10 H | 0.19 % to 0.13 % |

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|---|---|---|---|---|---|
| 25 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Inductance @1 kHz | By Using RLC Digibridge GenRad 1658 by Direct Method | 100 µH to 1 mH | 0.32 % to 0.19 % |
| 26 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz to 1 kHz | Using Multifunction Calibrator,Fluke-550 2 A By Direct Method | 30 µA to 100 µA | 0.56 % to 0.29 % |
| 27 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz to 1 kHz | By using MFC 5502A by Direct / comparison Method | 1 A to 10 A | 0.08 % to 0.14 % |
| 28 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz to 1 kHz | By using MFC 5502A by Direct/ comparison method | 10 A to 20 A | 0.14 % to 0.2 % |
| 29 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz to 1 kHz | By using MFC 5502A by Direct / comparision method | 100 mA to 1 A | 0.075 % to 0.05 % |

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|---|---|---|---|---|---|
| 30 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz to 1 kHz | By using MFC 5502A Direct method | 100 mA to 1 A | 0.075 % to 0.08 % |
| 31 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz, | Using Multifunction Calibrator,Fluke-5502 A & Current Coil, Fluke By Direct Method. | 20 A to 1000 A | 0.82 % to 0.85 % |
| 32 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50Hz to 1 kHz, | Using Multifunction Calibrator,Fluke-5502 A By Direct Method. | 1 mA to 100 mA | 0.14 % to 0.08 % |
| 33 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50Hz to 1kHz | Using Multifunction Calibrator,Fluke-5502 A By Direct Method. | 100 µA to 1 mA | 0.29 % to 0.14 % |
| 34 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Power (1 Phase) @UPF, 50 Hz, 30V to 320V/ 1 mA to 20A | Using Multifunction Multiproduct Calibrator ,Fluke-5502 A +50 Turn By Direct Method. | 30 mW to 6.4 kW | 0.24 % to 0.07 % |

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| 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)(±) |
|---|---|---|---|---|---|
| 35 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 50Hz to 1kHz, | Using Multifunction Calibrator, Fluke -5502A By Direct Method. | 10 mV to 100 mV | 0.36 % to 0.09 % |
| 36 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 50Hz to 1kHz, | Using Multifunction Calibrator ,Fluke -5502A By Direct / Comparison Method. | 10 V to 1000 V | 0.060 % to 0.064 % |
| 37 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 50Hz to 1kHz, | Using Multifunction Calibrator ,Fluke -5502A By Direct Method. | 100 mV to 10 V | 0.09 % to 0.06 % |
| 38 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct Method | 1 nF | 1.16 % |
| 39 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct Method | 100 nF | 1.16 % |
| 40 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz, | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct / Comparison Method | 1 µF | 1.16 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** ARCHERCAL PRIVATE LIMITED, B-103, TANVI'S TANISHKA INDUSTRIAL ESTATE, TANVI COMPLEX, S. V. ROAD, DAHISAR EAST, MUMBAI, MAHARASHTRA, INDIA

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|---|---|---|---|---|---|
| 41 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct Method | 1 µF | 1.16 % |
| 42 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct Method | 1 mF | 1.17 % |
| 43 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct Method | 10 µF | 1.16 % |
| 44 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz | By using Decade Capacitance Box Vaiseshikha-Type 7500 by Direct Method | 100 µF | 1.17% |
| 45 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance@ 1kHz | By using MFC Fluke 5502A by Direct Method | 1 nF to 100 µF | 2.0 % to 1.91 % |
| 46 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Inductance @1 kHz | using Decade inductance box Vaiseshika/7500 by Direct method | 1 H | 1.16 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
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|---|---|---|---|---|---|
| 47 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Inductance @1 kHz | By using Decade inductance box Vaiseshika/7500 by Direct method | 1 mH | 1.16 % |
| 48 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Inductance @1 kHz | using Decade inductance box Vaiseshika/7500 by Direct/ Comparison method | 10 H | 1.16 % |
| 49 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Inductance @1 kHz | using Decade inductance box Vaiseshika/7500 by Direct/ Comparison method | 10 mH | 1.16 % |
| 50 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Inductance @1 kHz | By using Decade inductance Box Vaiseshikha/ 7500 by Direct Method | 100 µH | 1.16 % |
| 51 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Inductance @1 kHz | using Decade inductance box Vaiseshika/7500 by Direct method | 100 mH | 1.16 % |
| 52 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | By using Reference Multimeter Fluke-8508A by Direct Method | 1 A to 10 A | 0.023 % to 0.09 % |

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|---|---|---|---|---|---|
| 53 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | By using Reference Multimeter Fluke-8508A by Direct Method | 10 µA to 10 mA | 0.009 % to 0.0029 % |
| 54 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | By using Reference Multimeter Fluke-8508A by Direct Method | 10 A to 20 A | 0.051 % to 0.049 % |
| 55 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | By using Reference Multimeter Fluke-8508A by Direct Method | 10 mA to 100 mA | 0.0029 % to 0.007 % |
| 56 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current | By using Reference Multimeter Fluke-8508A by Direct Method | 100 mA to 1 A | 0.007 % to 0.023 % |
| 57 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | Using Reference Multimeter Fluke 8508A By Direct Method | 0.1 mV to 1 mV | 0.13 % to 0.016 % |
| 58 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | Using Multifunction Fluke 80K-40 HV Probe with DMM 87 V by Direct method | 1 kV to 40 kV | 1.84% |

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|---|---|---|---|---|---|
| 59 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | By using Reference Multimeter Fluke 8508A by Direct Method | 1 mV to 10 mV | 0.016 % to 0.004 % |
| 60 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | By using Reference Multimeter Fluke 8508 A by Direct Method | 1 V to 1000 V | 0.0007 % to 0.001 % |
| 61 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | using Reference Multimeter Fluke -8508A By Direct Method | 10 mV to 100 mV | 0.004 % to 0.001 % |
| 62 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage | By using Reference Multimeter Fluke-8508A by Direct Method | 100 mV to 1 V | 0.001 % to 0.0007 % |
| 63 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct Method | 1 M ohm to 10 M ohm | 0.002 % to 0.0043 % |
| 64 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct / Comparison Method | 1 m ohm to 10 m ohm | 0.47 % to 0.049 % |

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|---|---|---|---|---|---|
| 65 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct Method | 1 ohm to 10 ohm | 0.0063 % to 0.0017 % |
| 66 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct Method | 10 k ohm to 1 M ohm | 0.001 % to 0.002 % |
| 67 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct Method | 10 m ohm to 100 m ohm | 0.052 % to 0.0071 % |
| 68 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct Method | 10 M ohm to 100 M ohm | 0.0043 % to 0.026 % |
| 69 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference multimeter Fluke 8508A by Direct Method | 10 Ohm to 10 k Ohm | 0.0017 % to 0.001 % |
| 70 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct Method | 100 m ohm to 1 ohm | 0.0071 % to 0.0063 % |

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|---|---|---|---|---|---|
| 71 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance | By using Reference Multimeter Fluke-8508A by Direct Method | 100 M ohm to 10 G ohm | 0.026 % to 0.29 % |
| 72 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current | Using Multifunction Calibrator - Fluke-5502A By Direct Method. | 1 mA to 100 mA | 0.02 % to 0.017 % |
| 73 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Resistance | By using MFC Fluke 5502A by Direct Method | 1 M Ohm to 10 M Ohm | 0.019 % to 0.07 % |
| 74 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Resistance | By using MFC Fluke 5502A by Direct Method | 100 m Ohm to 1 Ohm | 0.8 % to 0.58 % |
| 75 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 1 G ohm | 1.41 % |

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|---|---|---|---|---|---|
| 76 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 1 k ohm | 0.6 % |
| 77 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 1 M Ohm | 1.0 % |
| 78 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 1 T ohm | 8.33 % |
| 79 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 10 G ohm | 1.7 % |
| 80 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 10 k ohm | 0.06 % |

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|---|---|---|---|---|---|
| 81 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 10 M OHM | 1.4 % |
| 82 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 100 G ohm | 3.8 % |
| 83 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 100 k ohm | 0.6 % |
| 84 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | High Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 100 M ohm | 1.4 % |
| 85 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Milli Ohm Meter Calibrator Vaiseshikha-9409 CAL by Direct Method | 1 m ohm | 0.16 % |

# SCOPE OF ACCREDITATION

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|---|---|---|---|---|---|
| 86 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Milli Ohm Meter Calibrator Vaiseshikha-9409 CAL by Direct Method | 1 ohm | 0.07 % |
| 87 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Miliohm meter calibrator Vaiseshika -9409 Cal by Direct Method | 10 µ Ohm | 3.2 % |
| 88 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Milli Ohm Meter Calibrator Vaiseshikha-9409 CAL by Direct Method | 10 µ ohm | 3.48 % |
| 89 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Milli Ohm Meter Calibrator Vaiseshikha-9409 CAL by Direct Method | 10 m ohm | 0.08 % |
| 90 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Milli Ohm Meter Calibrator Vaiseshikha-9409 CAL by Direct/Comparison Method | 100 µ ohm to | 1.6 % |

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|---|---|---|---|---|---|
| 91 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Milli Ohm Meter Calibrator Vaiseshikha-9409 CAL by Direct Method | 100 m ohm | 0.07 % |
| 92 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Low Resistance | By using Micro/Milli Ohm Meter Calibrator Vaiseshikha-9409 CAL by Direct Method | 2 ohm | 0.07 % |
| 93 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance | By using Decade Resistor Box Vaiseshikha-Type 8400 HVSD(Standard) by Direct Method | 100 M Ohm | 1.4 % |
| 94 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Digital/Analogue stop watch, Digital Timer | Using Time Interval Meter by Comparison Method | 1 hr to 5 hr | 6.65 s to 24.62 s |
| 95 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Digital/Analogue stop watch, Digital Timer | Using Time Interval Meter by Comparison Method | 1 s to 60 s | 0.14 s to 0.16 s |

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|---|---|---|---|---|---|
| 96 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Digital/Analogue Stop watch, Digital Timer | Using Time Interval Meter by Comparison Method | 200 ms to 1 s | 0.07 s to 0.14 s |
| 97 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Digital/Analogue stop watch, Digital Timer | Using Time Interval Meter by Comparison Method | 60 s to 1 hr | 0.16 s to 6.65 s |
| 98 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Frequency measurement for MFC's, DMM | By using Reference Multimeter Fluke-8508A by Direct / Comparison Method | 10 Hz to 1 MHz | 0.0013 % to 0.0012 % |
| 99 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source) | Frequency meter, DMM | Using Multifunction Multiproduct Calibrator, Fluke 5502A By Direct Method. | 10 Hz to 1 MHz | 0.062 % to 0.0021 % |
| 100 | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator | Using Digital Tachometer & Mechanical type Tachometer Calibrator By Comparison Method | 10 rpm to 20000 rpm | 2.0rpm |

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|---|---|---|---|---|---|
| 101 | MECHANICAL-ACCELERATION AND SPEED | Tachometer (contact Mode) | Using Digital Tachometer & Mechanical type Tachometer Calibrator By Comparison Method | 10 rpm to 1000 rpm | 3.4rpm |
| 102 | MECHANICAL-ACCELERATION AND SPEED | Tachometer (contact Mode) | Using Digital Tachometer & Mechanical type Tachometer Calibrator By Comparison Method | 1000 rpm to 5000 rpm | 6.6rpm |
| 103 | MECHANICAL-ACCELERATION AND SPEED | Tachometer (Noncontact Type) | Using Digital Tachometer & Mechanical type Tachometer Calibrator By Comparison Method | 10 rpm to 100 rpm | 3rpm |
| 104 | MECHANICAL-PRESSURE INDICATING DEVICES | Digital Pressure Indicator ,Manometer Magnahelic Gauge ,Low Pressure Gauge ,Pressure Transmitter,Pressure Switches Differential Pressure Gauges /Indicators - (Pneumatic Pressure) | Using Digital Pressure indicator, Calibrator Make: Polltech Instrument & Test pump , 6.5 Digit DMM Calibrator by Comparison method DKD-R6-01 | 0 to 200 mbar | 0.1mbar |

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|---|---|---|---|---|---|
| 105 | MECHANICAL-PRESSURE INDICATING DEVICES | Digital/Analog Pressure Gauges,Indicators,Pressure Transmitter,Pressure Switch,Differential Pressure Gauge/Indicators - (Pneumatic Pressure) | Using Digital Pressure Gauge & Pneumatic Test Pump, 6.5 Digit DMM Calibrator by Comparison Method DKD-R6-01 | 0 to 2 bar | 0.0006bar |
| 106 | MECHANICAL-PRESSURE INDICATING DEVICES | Digital Pressure Indicator ,Manometer Magnahelic Gauge ,Low Pressure Gauge ,Pressure Transmitter,Pressure Switches Differential Pressure Gauges /Indicators - (Pneumatic Pressure) | Using Digital Pressure indicator, Calibrator Make: Polltech Instrument & Test pump and 6.5 Digit DMM Calibrator by Comparison method DKD-R6-01 | 0 to 20 mbar | 0.012mbar |
| 107 | MECHANICAL-PRESSURE INDICATING DEVICES | Digital/Analog Pressure Gauges,Indicators,Pressure Transmitter,Pressure Switch,Differential Pressure Gauge/Indicators - (Pneumatic Pressure) | Using Digital Pressure Gauge & Pneumatic Test Pump , 6.5 Digit DMM Calibrator By Comparison Method DKD-R6-01 | 0 to 10 bar | 0.006bar |

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|---|---|---|---|---|---|
| 108 | MECHANICAL-PRESSURE INDICATING DEVICES | Digital/Analog Pressure Gauges,Indicators,Pressure Transmitter,Pressure Switch,Differential Pressure Gauge/Indicators - (Pneumatic Pressure) | Using Digital Pressure Gauge & Pneumatic Test Pump , 6.5 Digit DMM Calibrator By Comparison Method DKD-R6-01 | 0 to 35 bar | 0.007bar |
| 109 | MECHANICAL-PRESSURE INDICATING DEVICES | Digital/Analog Pressure Gauges,Pressure Indicators,Pressure Transmitter,Pressure Switches - (Hydraulic Pressure) | Using Digital Pressure Gauge & Pneumatic Test Pump, 6.5 Digit DMM Calibrator By Comparison Method DKD-R6-01 | 350 bar to 1000 bar | 0.61bar |
| 110 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balance and Compartor of Class I & Coarser with Readability d= 0.001 mg | Using E1 Class Weights ser as per OIML R-76-1 | 0 to 5 g | 0.005mg |
| 111 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balances and Comparator of Class I and Coarser with Readability d= 0.1 mg | Using E1 Class Weights as per OIML R-76-1 | 0 to 5000 g | 0.7mg |

# SCOPE OF ACCREDITATION

**Laboratory Name :** ARCHERCAL PRIVATE LIMITED, B-103, TANVI'S TANISHKA INDUSTRIAL ESTATE, TANVI COMPLEX, S. V. ROAD, DAHISAR EAST, MUMBAI, MAHARASHTRA, INDIA

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| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 112 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balances and Comparator of Class II and Coarser with Readability d= 10 mg | Using E2 Class Weights as per OIML R-76-1 | 0 to 25 kg | 16mg |
| 113 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balances and Compartor of Class I & Coarser with Readability d= 0.001 mg | Using E1 Class Weights as per OIML R-76-1 | 0 to 20 g | 0.01mg |
| 114 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balances and Compartor of Class I & Coarser with Readability d= 0.01 mg | Using E1 Class Weights as per OIML R-76-1 | 0 to 200 g | 0.03mg |
| 115 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balances and Compartor of Class II & Coarser with Readability d= 100 mg | Using E2 Class Weights as per OIML R-76-1 | 0 to 25 kg | 200mg |
| 116 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balances of Class III & Coarser with Readability d= 1g | Using F1 Class Weight as per OIML R-76-1 | 0 to 100 kg | 6g |

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| 117 | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic,Weighing Balances of Class IV & Coarser with Readability d= 50g | Using F1 Class Weights as per OIML R-76-1 | 0 to 400 kg | 54g |
| 118 | THERMAL-SPECIFIC HEAT & HUMIDITY | Environmental chamber, Control Storage Room ,Cold Room (Multi position calibration Using 9 Nos. Sensor) | By Using Wireless Data Logger (100 Nos.) at multiposition calibration by spatial mapping comparison method | 10 °C to 50 °C | 2.30°C |
| 119 | THERMAL-SPECIFIC HEAT & HUMIDITY | Humidity Calibrator /Generator/Environmental chamber, Control Storage Room (Multi position calibration by Max 100 Nos. Sensor) @25 °C | Using Wireless Data Logger at multiposition calibration by spatial mapping comparison method | 10 % to 95 % | 4%RH |
| 120 | THERMAL-SPECIFIC HEAT & HUMIDITY | Humidity Calibrator /Generator/Environmental chamber, Control Storage Room (Multi position calibration Using upto max. 09 Nos. Sensors ) @25°C | Using multipoint Data logger Yokogawa Mdel:GP 10 and Rotronic Make RH &Temperature Probe sensors & at multiposition calibration by spatial mapping comparison method | 10 %RH to 95 %RH | 3.9%RH |

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| 121 | THERMAL-SPECIFIC HEAT & HUMIDITY | Relative Humidity Sensors with Indicator ,Hygrometer /Humidity Data Logger Humidity Transmitter with sensor @25°C | Using MICHELL RH Generator & Rotronic RH & Temp Probe with Indicator By Comparison Method | 10 %RH to 90 %RH | 0.54%RH |
| 122 | THERMAL-TEMPERATURE | Temperature Furnace at Multi Positions calibration by using max. upto 09 sensors) | Using Multipoint Data Logger Yokogawa,Model:GP 10 and 3 wire RTD (PT-100) SENSORS & at multi position calibration by comparision method | 25 °C to 400 °C | 1.5 °C |
| 123 | THERMAL-TEMPERATURE | Autoclaves (For Non Medical Purpose Only) at Multi-positions calibration by using Max upto 16 nos sensors. | Using Multipoint Data Logger Yokogawa,Model:GP 10 and 3 wire RTD (PT-100) Sensors by using comparision method | 120 °C to 150 °C | 1.5°C |
| 124 | THERMAL-TEMPERATURE | Environmental Chamber at Multi Positions calibration by using max. upto 09 sensors) | Using Multipoint Data Logger Yokogawa,Model:GP 10 and 3 wire RTD (PT-100) SENSORS & at multi position calibration by comparision method | (-)80 °C to 20 °C | 1.5°C |

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|---|---|---|---|---|---|
| 125 | THERMAL-TEMPERATURE | Incubator (For Non Medical Purpose Only), BOD Incubator (For Non Medical Purpose Only) at Multi-positions by using Max upto 16 nos sensors. | Using Multipoint Data Logger Yokogawa,Model:GP 10 and 3 wire RTD (PT-100) SENSORS by comparison Method. | 5 °C to 60 °C | 1.5°C |
| 126 | THERMAL-TEMPERATURE | Indicator of Liquid Bath,Oil Bath, Dry Block Calibrators Furnace . | Using SPRT with Model:935-14-95L& 34-14-95H with Millik Preci9sion Thermometer (Single Point Calibration) By comparison Method. | (-80) °C to 300 °C | 0.06°C |
| 127 | THERMAL-TEMPERATURE | Indicator of Oven, Heating Chambers,Water Bath | Using SPRT with Model:935-14-95L& 34-14-95H with Millik Preci9sion Thermometer (Single Point Calibration) By comparison Method | 25 °C to 300 °C | 0.06 °C |

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|---|---|---|---|---|---|
| 128 | THERMAL-TEMPERATURE | Indicator of oven, Muffle Furnace, Heating chambers, Dry Block Calibrators Furnace | Using SPRT with Model:935-14-95L& 34-14-95H with Millik Preci9sion Thermometer (Single Point Calibration) By comparison Method (Single Point Calibration) | 300 °C to 600 °C | 0.2°C |
| 129 | THERMAL-TEMPERATURE | Refrigerator, Freezers, Deep Freezers at Multi-positions calibration by using Max upto 16 nos sensors. | Using Multipoint Data Logger Yokogawa,Model:GP 10 and 3 wire RTD (PT-100) SENSORS by comparison Method | (-80) °C to 20 °C | 1.5°C |
| 130 | THERMAL-TEMPERATURE | RTD/PRT/ Thermocouple Sensor with or without Indicator ,Temperature Transmitter with Sensor ,Recorder with Sensor | Using SPRT with Model 934-14-95H with Milik Precision Thermometer Temperature Source:Dry block calibrator Model:Pegasus 4853 By Comparison Method | 300 °C to 600 °C | 0.2°C |

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| 131 | THERMAL-TEMPERATURE | Temperature Indicator of Muffle Furnace,Dry Block Calibrator (Using single point calibration) | Using R Type Thermometer with Millik Precision Thermometer By Comparison Method (Single Point Calibration) | 1100 °C to 1190 °C | 1.6°C |
| 132 | THERMAL-TEMPERATURE | Temperature Indicator of Muffle Furnace,Dry Block Calibrator (Using single point calibration) | Using R Type Thermometer with Millik Precision Thermometer By Comparison Method (Single Point Calibration) | 600 °C to 1100 °C | 1.35°C |
| 133 | THERMAL-TEMPERATURE | Thermocouple with or without indicator Temperature Transmitter with sensor, Thermistor | Using R type Thermometer with Millik Precision Thermometer Temperature Source:Dry Block calibrator,Model:Pegasus 4853 By Comparison Method | 1100 °C to 1190 °C | 1.5°C |

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|---|---|---|---|---|---|
| 134 | THERMAL-TEMPERATURE | Thermocouple with or without indicator Temperature Transmitter with sensor, Thermistor | Using R Type Thermocouple with Millik Precision Thermometer Temperature Source:Dry Block Calibrator ,Model:Pegasus 4853 By Comparison Method | 600 °C to 1100 °C | 1.35°C |

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