



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** MRCREST INSTRUMENTS LLP, NO. 24, 2ND STREET, SRI VENKATESWARA NAGAR,  
CHENNAI, TAMIL NADU, INDIA

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

**Certificate Number** NABLC0926TN04989

**Validity** 25/07/2026 to 24/07/2030

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| Permanent Facility |                                                           |                                                                                                                             |                                                                                    |                                                                                   |                                                  |
| 1                  | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Capacitance @ 1 kHz                                                                                                      | Using LCR Meter by Direct Method                                                   | 100 pF to 100 µF                                                                  | 0.06 %                                           |
| 2                  | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Capacitance @ 100 Hz                                                                                                     | Using LCR Meter by Direct Method                                                   | 1000 nF to 10 mF                                                                  | 0.077 % to 0.12 %                                |
| 3                  | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 1 kHz to 10 kHz                                                                                                | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 mA to 1 A                                                                      | 0.07 % to 0.12 %                                 |
| 4                  | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mA to 10 mA                                                                     | 0.54 % to 1.21 %                                 |



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| 5    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 mA to 100 mA                                                                   | 1.21 % to 0.23 %                                 |
| 6    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 µA to 1 mA                                                                    | 1.22 % to 0.54 %                                 |
| 7    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 30 µA to 100 µA                                                                   | 0.89 % to 1.22 %                                 |
| 8    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 40 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 A to 3 A                                                                        | 0.17 % to 0.36 %                                 |
| 9    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 40 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 3 A to 10 A                                                                       | 0.36 % to 0.4 %                                  |



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| 10   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 40 Hz to 1 kHz                                                                                                 | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mA to 30 A                                                                      | 0.04 % to 0.07 %                                 |
| 11   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 40 Hz to 1 kHz                                                                                                 | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 µA to 1 mA                                                                     | 0.28 % to 0.04 %                                 |
| 12   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 40 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 mA to 500 mA                                                                  | 0.26 %                                           |
| 13   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 40 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 500 mA to 1 A                                                                     | 0.26 % to 0.17 %                                 |
| 14   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz                                                                                                          | Using Power Quality Analyzer with coil Direct Method                               | 1 A to 1500 A                                                                     | 0.26 %                                           |



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| 15   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC High Voltage @ 50 Hz                                                                                                     | Using High Voltage Probe with Digital Multimeter and HV Source by Direct / Comparison Method | 1 kV to 60 kV                                                                     | 4.35 %                                           |
| 16   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC High Voltage @ 50 Hz                                                                                                     | Using High Voltage Probe with Digital Multimeter and HV Source by Direct / Comparison Method | 1 kV to 28 kV                                                                     | 4.35 % to 4.68 %                                 |
| 17   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Resistance @ 1 kHz                                                                                                       | Using LCR Meter with Resistance Box by Direct / Substitution Method                          | 1 ohm to 10 kohm                                                                  | 0.065 %                                          |
| 18   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Resistance @ 1 kHz                                                                                                       | Using LCR Meter by Direct Method                                                             | 1 ohm to 10 kohm                                                                  | 0.06 %                                           |
| 19   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 1 kHz to 10 kHz                                                                                                | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method           | 200 V to 1000 V                                                                   | 0.009 % to 0.012 %                               |



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| 20   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 1 kHz to 100 kHz                                                                                               | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mV to 100 mV                                                                    | 0.17 % to 0.035 %                                |
| 21   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 1 kHz to 100 kHz                                                                                               | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 V to 200 V                                                                     | 0.023 % to 0.03 %                                |
| 22   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 1 kHz to 100 kHz                                                                                               | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 mV to 10 V                                                                    | 0.035 % to 0.023 %                               |
| 23   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 V to 10 V                                                                       | 0.21 % to 0.13 %                                 |
| 24   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 V to 100 V                                                                     | 0.13 % to 0.1 %                                  |



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| 25   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 mV to 1 V                                                                     | 0.12 % to 0.21 %                                 |
| 26   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mV to 100 mV                                                                    | 1.92 % to 0.12 %                                 |
| 27   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 20 Hz to 1 kHz                                                                                                 | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 V to 1000 V                                                                    | 0.016 % to 0.018 %                               |
| 28   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 20 Hz to 1 kHz                                                                                                 | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 mV to 10 V                                                                    | 0.017 % to 0.016 %                               |
| 29   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 20Hz to 1 kHz                                                                                                  | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mV to 100 mV                                                                    | 0.25 % to 0.017 %                                |



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| 30   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 50 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 V to 1000 V                                                                   | 0.1 % to 0.097 %                                 |
| 31   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Capacitance @ 100 Hz                                                                                                        | Using LCR Meter with Capacitance Box by Direct / Substitution Method               | 1 mF to 10 mF                                                                     | 0.07 %                                           |
| 32   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Capacitance @ 1 kHz                                                                                                         | Using LCR Meter with Capacitance Box by Direct / Substitution Method               | 1 pF to 100 µF                                                                    | 0.068 %                                          |
| 33   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Inductance @1 kHz                                                                                                           | Using LCR Meter by Direct Method                                                   | 100 µH to 10 H                                                                    | 0.12 % to 0.15 %                                 |
| 34   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Power Factor @ 50 Hz (10 V to 600 V, 0.01 A to 10 A)                                                                        | Using Three Phase Calibration Meter and Source by Direct / Comparison Method       | 0.2 (Lead / Lag) PF to UPF                                                        | 0.002 PF                                         |



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| 35   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Single Phase AC Active Power @ 50 Hz (10 V to 600 V, 0.01 A to 10 A, 0.5 Lead / Lag to UPF)                                  | Using Three Phase Calibration Meter and Source by Direct / Comparison Method | 1 W to 4.5 kW                                                                     | 0.27 %                                           |
| 36   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Single Phase Active Energy @ 50 Hz (100 V to 600 V, 0.5 A to 20 A, 0.5 Lead / Lag to UPF)                                    | Using Three Phase Calibration Meter and Source by Direct / Comparison Method | 1 Wh to 2 kWh                                                                     | 0.15 % to 0.11 %                                 |
| 37   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Three Phase (4 Wire) Active Energy @ 50 Hz (63.5 V to 240 V, 0.01 A to 20 A, 0.5 Lead / Lag to UPF)                          | Using Three Phase Calibration Meter and Source by Direct / Comparison Method | 100 mWh to 18 kWh                                                                 | 0.3 %                                            |
| 38   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Three Phase (4 Wire) Active Power @ 50 Hz (63.5 V to 240 V, 0.01 A to 20 A, 0.5 Lead / Lag)                                  | Using Three Phase Calibration Meter and Source by Direct / Comparison Method | 300 mW to 9 kW                                                                    | 0.27 %                                           |
| 39   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Three Phase (4 Wire) Active Power @ 50 Hz (63.5 V to 240 V, 0.01 A to 20 A, UPF)                                             | Using Three Phase Calibration Meter and Source by Direct / Comparison Method | 600 mW to 18 kW                                                                   | 0.27 %                                           |



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| 40   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 45 Hz to 1 kHz                                                                                                 | Using Multi Product Calibrator by Direct Method | 2.99 A to 10 A                                                                    | 0.21 % to 0.12 %                                 |
| 41   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 45 Hz to 10 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 1 A to 2.99 A                                                                     | 0.25 % to 0.21 %                                 |
| 42   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 45 Hz to 10 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 3.2 mA to 32 mA                                                                   | 0.24 % to 0.11 %                                 |
| 43   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 45 Hz to 10 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 30 µA to 3.2 mA                                                                   | 0.21 % to 0.24 %                                 |
| 44   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 45 Hz to 10 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 32 mA to 320 mA                                                                   | 0.11 % to 0.21 %                                 |
| 45   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 45 Hz to 10 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 320 mA to 1 A                                                                     | 0.21 % to 0.25 %                                 |



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| 46   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz                                                                                                          | Using Multi Product Calibrator with Current Coil by Direct Method | 10 A to 550 A                                                                     | 0.035 % to 0.4 %                                 |
| 47   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz                                                                                                          | Using Multi Product Calibrator with Current Coil by Direct Method | 500 A to 1000 A                                                                   | 0.4 %                                            |
| 48   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 40 Hz to 1 kHz                                                                                                 | Using Multi Product Calibrator by Direct Method                   | 1 mV to 32 mV                                                                     | 0.53 %                                           |
| 49   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 45 Hz to 1 kHz                                                                                                 | Using Multi Product Calibrator by Direct Method                   | 32 V to 320 V                                                                     | 0.066 % to 0.059 %                               |
| 50   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 45 Hz to 1 kHz                                                                                                 | Using Multi Product Calibrator by Direct Method                   | 320 V to 990 V                                                                    | 0.059 % to 0.062 %                               |
| 51   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 45 Hz to 1 kHz                                                                                                 | Using Multi Product Calibrator by Direct Method                   | 990 V to 1000 V                                                                   | 0.062 %                                          |



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| 52   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 45 Hz to 20 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 3.2 V to 32 V                                                                     | 0.06 % to 0.09 %                                 |
| 53   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 45 Hz to 20 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 32 mV to 320 mV                                                                   | 0.24 % to 0.06 %                                 |
| 54   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 45 Hz to 20 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 320 mV to 3.2 V                                                                   | 0.06 %                                           |
| 55   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz                                                                                                        | Using Multi Product Calibrator by Direct Method | 1.0999 µF to 3.2999 µF                                                            | 0.5 % to 0.39 %                                  |
| 56   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz                                                                                                         | Using Multi Product Calibrator by Direct Method | 0.5 nF to 1.0999 nF                                                               | 3.8 % to 2.06 %                                  |
| 57   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz                                                                                                         | Using Multi Product Calibrator by Direct Method | 10.999 nF to 32.999 nF                                                            | 0.61 % to 0.78 %                                 |



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| 58   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz                                                                                                         | Using Multi Product Calibrator by Direct Method | 110 nF to 329.99 nF                                                               | 0.47 % to 0.39 %                                 |
| 59   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz                                                                                                         | Using Multi Product Calibrator by Direct Method | 3.2999 nF to 10.999 nF                                                            | 1.12 % to 0.61 %                                 |
| 60   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz                                                                                                         | Using Multi Product Calibrator by Direct Method | 1.0999 nF to 3.2999 nF                                                            | 2.06 % to 1.12 %                                 |
| 61   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz                                                                                                         | Using Multi Product Calibrator by Direct Method | 32.999 nF to 110 nF                                                               | 0.78 % to 0.47 %                                 |
| 62   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz                                                                                                        | Using Multi Product Calibrator by Direct Method | 10.999 µF to 32.999 µF                                                            | 0.39 % to 0.67 %                                 |
| 63   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz                                                                                                        | Using Multi Product Calibrator by Direct Method | 3.2999 µF to 10.999 µF                                                            | 0.39 %                                           |



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| <b>Accreditation Standard</b> | ISO/IEC 17025:2017                                                                                 |                        |            |
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| 64   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz                                                                                                        | Using Multi Product Calibrator by Direct Method | 32.999 $\mu$ F to 109.99 $\mu$ F                                                  | 0.67 % to 0.77 %                                 |
| 65   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz                                                                                                        | Using Multi Product Calibrator by Direct Method | 329.99 nF to 1.0999 $\mu$ F                                                       | 0.39 % to 0.5 %                                  |
| 66   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Inductance @ 1 kHz                                                                                                          | Using Standard Inductance Box by Direct Method  | 10 $\mu$ H to 10 H                                                                | 0.76 % to 0.5 %                                  |
| 67   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Power Factor @ 50 Hz (10 V to 600 V, 0.2 A to 10 A)                                                                         | Using Multi Product Calibrator by Direct Method | 0.2 (Lag) PF to UPF                                                               | 0.003 PF                                         |
| 68   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Power Factor @ 50 Hz (10 V to 600 V, 0.2 A to 10 A)                                                                         | Using Multi Product Calibrator by Direct Method | 0.2 (Lead) PF to UPF                                                              | 0.003 PF                                         |
| 69   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Single Phase AC Active Power @ 50 Hz (10 V to 1000 V, 0.01 A to 11 A, UPF)                                                  | Using Multi Product Calibrator by Direct Method | 1 W to 6 kW                                                                       | 0.34 % to 0.12 %                                 |



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| 70   | ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source) | Single Phase AC Active Power @ 50 Hz (10 V to 600 V, 0.2 A to 10 A, 0.5 lag / lead to UPF)                                  | Using Multi Product Calibrator by Direct Method                                    | 1 W to 3 kW                                                                       | 1.14 % to 1.13 %                                 |
| 71   | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)               | Capacitance                                                                                                                 | Using 6½ Digit Multimeter by Direct Method                                         | 1 nF to 10 µF                                                                     | 1.05 % to 1.2 %                                  |
| 72   | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)               | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 mA to 100 mA                                                                   | 0.081 % to 0.063 %                               |
| 73   | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)               | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 3 A to 10 A                                                                       | 0.14 % to 0.18 %                                 |
| 74   | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)               | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 A to 3 A                                                                        | 0.082 % to 0.14 %                                |
| 75   | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)               | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mA to 10 mA                                                                     | 0.064 % to 0.081 %                               |



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| 76   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 µA to 1 mA                                                                    | 0.089 % to 0.064 %                               |
| 77   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 400 mA to 1 A                                                                     | 0.066 % to 0.082 %                               |
| 78   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 6½ Digit Multimeter with shunt DC Current source by V/I Method               | 0.1 A to 250 A                                                                    | 0.05 %                                           |
| 79   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 µA to 100 µA                                                                    | 0.062 % to 0.011 %                               |
| 80   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 µA to 100 µA                                                                   | 0.4 % to 0.9 %                                   |
| 81   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 µA to 20 A                                                                    | 0.011 % to 0.028 %                               |



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| 82   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method  | 100 mA to 500 mA                                                                  | 0.063 % to 0.066 %                               |
| 83   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method  | 20 A to 30 A                                                                      | 0.028 % to 0.016 %                               |
| 84   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC High Voltage                                                                                                             | Using High voltage Probe with Digital multimeter and HV Source by Comparison Method | 5 kV to 40 kV                                                                     | 4.62 % to 4.46 %                                 |
| 85   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC High Voltage                                                                                                             | Using High voltage Probe with Digital multimeter and HV Source by Comparison Method | 1 kV to 5 kV                                                                      | 4.83 % to 4.62 %                                 |
| 86   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Power (10 V to 1000 V, 0.1 A to 10 A)                                                                                    | Using Three Phase Calibration Meter and Source By Direct / Comparison Method        | 1 W to 10 kW                                                                      | 0.23 %                                           |
| 87   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Power (10V to 1000 V, 0.01 A to 20 A)                                                                                    | Using Three Phase Calibration Meter and Source By Direct / Comparison Method        | 100 mW to 20 kW                                                                   | 8.8 % to 0.18 %                                  |



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| 88   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (2 wire)                                                                                                      | Using 8½ Digit Multimeter by Direct Method                         | 1 Gohm to 1 Tohm                                                                  | 1.1 % to 1.53 %                                  |
| 89   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (2 wire)                                                                                                      | Using 8½ Digit Multimeter by Direct Method                         | 1 Mohm to 100 Mohm                                                                | 0.0018 % to 0.039 %                              |
| 90   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (2 wire)                                                                                                      | Using 8½ Digit Multimeter by Direct Method                         | 10 Gohm to 20 Gohm                                                                | 0.35 % to 0.44 %                                 |
| 91   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (2 wire)                                                                                                      | Using 8½ Digit Multimeter by Direct Method                         | 100 Mohm to 10 Gohm                                                               | 0.35 % to 0.18 %                                 |
| 92   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (2 wire) @ Up to 1000 V                                                                                       | Using 8½ Digit Multimeter & Multi Product Calibrator by V/I Method | 100 kohm to 1 Gohm                                                                | 0.004 % to 0.06 %                                |
| 93   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (4 wire)                                                                                                      | Using 8½ Digit Multimeter by Direct Method                         | 1 ohm to 1 kohm                                                                   | 0.00065 % to 0.0008 %                            |



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| 94   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (4 wire)                                                                                                      | Using 8½ Digit Multimeter by Direct Method                                         | 1 kohm to 100 Mohm                                                                | 0.0008 % to 0.0059 %                             |
| 95   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (4 wire)                                                                                                      | Using 8½ Digit Multimeter by Direct Method                                         | 1 mohm to 1 ohm                                                                   | 0.007 % to 0.00065 %                             |
| 96   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (4 wire)                                                                                                      | Using 8½ Digit Multimeter & Multi Product Calibrator by V/I Method                 | 1 mohm to 1 ohm                                                                   | 0.07 % to 0.06 %                                 |
| 97   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (4 wire)                                                                                                      | Using 8½ Digit Multimeter & Multi Product Calibrator by V/I Method                 | 20 µohm to 1 mohm                                                                 | 0.033 % to 0.07 %                                |
| 98   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mV to 100 mV                                                                    | 0.051 % to 0.0091 %                              |
| 99   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 V to 10 V                                                                       | 0.0039 % to 0.0035 %                             |



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| 100  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 V to 100 V                                                                     | 0.0035 % to 0.0053 %                             |
| 101  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 mV to 1 V                                                                     | 0.0091 % to 0.0039 %                             |
| 102  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 V to 1000 V                                                                   | 0.0053 % to 0.0061 %                             |
| 103  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mV to 10 V                                                                      | 0.041 % to 0.0005 %                              |
| 104  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 µV to 1 mV                                                                     | 0.25 % to 0.041 %                                |
| 105  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 V to 1000 V                                                                    | 0.0005 % to 0.0009 %                             |



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| 106  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | High Voltage                                                                                                                | Using High Voltage Probe with Digital Multimeter and HV Source Direct / Comparison Method | 1 kV to 60 kV                                                                     | 4.35 %                                           |
| 107  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Inductance @ 1 kHz                                                                                                          | Using LCR Meter with Capacitance Box by Direct / Substitution Method                      | 100 $\mu$ H to 10 H                                                               | 0.073 %                                          |
| 108  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (2 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method                                                | 100 Mohm to 1 Gohm                                                                | 0.95 % to 2.32 %                                 |
| 109  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method                                                | 10 Mohm to 100 Mohm                                                               | 0.049 % to 0.95 %                                |
| 110  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method                                                | 10 ohm to 100 ohm                                                                 | 0.046 % to 0.016 %                               |
| 111  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method                                                | 1 kohm to 10 kohm                                                                 | 0.012 %                                          |



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| 112  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method      | 1 Mohm to 10 Mohm                                                                 | 0.013 % to 0.049 %                               |
| 113  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method      | 1 ohm to 10 ohm                                                                   | 0.36 % to 0.046 %                                |
| 114  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method      | 10 kohm to 100 kohm                                                               | 0.012 %                                          |
| 115  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method      | 100 kohm to 1 Mohm                                                                | 0.012 % to 0.013 %                               |
| 116  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method      | 100 ohm to 1 kohm                                                                 | 0.016 % to 0.012 %                               |
| 117  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)  | DC Current                                                                                                                  | Using Multi Product Calibrator by Direct Method | 1 A to 2.99 A                                                                     | 0.053 % to 0.046 %                               |



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| 118  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current                                                                                                                   | Using Multi Product Calibrator by Direct Method                   | 2.99 A to 10 A                                                                    | 0.046 % to 0.077 %                               |
| 119  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current                                                                                                                   | Using Multi Product Calibrator by Direct Method                   | 3.2 mA to 32 mA                                                                   | 0.017 % to 0.014 %                               |
| 120  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current                                                                                                                   | Using Multi Product Calibrator by Direct Method                   | 32 mA to 320 mA                                                                   | 0.014 % to 0.012 %                               |
| 121  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current                                                                                                                   | Using Multi Product Calibrator by Direct Method                   | 320 mA to 1 A                                                                     | 0.012 % to 0.053 %                               |
| 122  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current                                                                                                                   | Using Multi Product Calibrator by Direct Method                   | 1 µA to 3.2 mA                                                                    | 0.87 % to 0.017 %                                |
| 123  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current                                                                                                                   | Using Multi Product Calibrator with Current Coil by Direct Method | 10 A to 550 A                                                                     | 0.035 % to 0.6 %                                 |



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| 124  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current                                                                                                                  | Using Multi Product Calibrator with Current Coil by Direct Method | 500 A to 1000 A                                                                   | 0.6 %                                            |
| 125  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Resistance (4 wire)                                                                                                      | Using Standard Resistance Box by Direct Method                    | 100 $\mu$ ohm to 1 mohm                                                           | 0.06 % to 0.08 %                                 |
| 126  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage                                                                                                                  | Using Multi Product Calibrator by Direct Method                   | 1 mV to 330 mV                                                                    | 0.12 % to 0.008 %                                |
| 127  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage                                                                                                                  | Using Multi Product Calibrator by Direct Method                   | 3.3 V to 1000 V                                                                   | 0.006 %                                          |
| 128  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage                                                                                                                  | Using Multi Product Calibrator by Direct Method                   | 330 mV to 3.3 V                                                                   | 0.008 % to 0.006 %                               |
| 129  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method                   | 32.9 Mohm to 109.9 Mohm                                                           | 0.13 % to 0.69 %                                 |



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| 130  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 329.9 Mohm to 1100 Mohm                                                           | 0.62 % to 1.78 %                                 |
| 131  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 1 Mohm to 3.2 Mohm                                                                | 0.023 % to 0.021 %                               |
| 132  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 10.9 Mohm to 32.9 Mohm                                                            | 0.07 % to 0.13 %                                 |
| 133  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 109.9 ohm to 329.9 ohm                                                            | 0.02 % to 0.018 %                                |
| 134  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 3.2 Mohm to 10.9 Mohm                                                             | 0.021 % to 0.07 %                                |
| 135  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 329.9 kohm to 1 Mohm                                                              | 0.018 % to 0.023 %                               |



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| 136  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire) @ 5 kV                                                                                                  | Using Standard Resistance Box by Direct Method  | 1 Gohm                                                                            | 2.4 %                                                  |
| 137  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire) @ 5 kV                                                                                                  | Using Standard Resistance Box by Direct Method  | 1 Tohm                                                                            | 5.9 %                                                  |
| 138  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire) @ 5 kV                                                                                                  | Using Standard Resistance Box by Direct Method  | 10 Gohm                                                                           | 2.5 %                                                  |
| 139  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire) @ 5 kV                                                                                                  | Using Standard Resistance Box by Direct Method  | 100 Gohm                                                                          | 2.5 %                                                  |
| 140  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using Standard Resistance Box by Direct Method  | 10 Mohm                                                                           | 1.35 %                                                 |
| 141  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 1 kohm to 3.2 kohm                                                                | 0.014 % to 0.02 %                                      |



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| 142  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 1 ohm to 10.9 ohm                                                                 | 1.17 % to 0.12 %                                 |
| 143  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using MPC by Direct Method                      | 3.2 kohm to 10.9 kohm                                                             | 0.02 % to 0.01 %                                 |
| 144  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 32.9 kohm to 109.9 kohm                                                           | 0.022 % to 0.015 %                               |
| 145  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 32.9 ohm to 109.9 ohm                                                             | 0.06 % to 0.02 %                                 |
| 146  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 329.9 ohm to 1 kohm                                                               | 0.01 % to 0.014 %                                |
| 147  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 10.9 kohm to 32.9 kohm                                                            | 0.01 % to 0.022 %                                |



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| 148  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)        | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method                              | 10.9 ohm to 32.9 ohm                                                              | 0.12 % to 0.06 %                                 |
| 149  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)        | Resistance (4 wire)                                                                                                         | Using Standard Resistance Box by Direct Method                               | 100 Mohm                                                                          | 1.3 %                                            |
| 150  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)        | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method                              | 109.9 kohm to 300 kohm                                                            | 0.015 % to 0.018%                                |
| 151  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Gauss Meter                                                                                                                 | Using Reference Gauss Meter & Reference Magnet by Direct / Comparison Method | 75 Gauss to 400 Gauss                                                             | 8.5 %                                            |
| 152  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)  | Conductivity Meter (20 ohm to10 Mohm)                                                                                       | Using Decade Resistance Box by Simulation Method                             | 0.1 $\mu$ S to 200 mS                                                             | 1.2 % to 1.61 %                                  |
| 153  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)  | Oscilloscope - AC Amplitude @ 10 Hz to 1 kHz                                                                                | Using Multi Product Calibrator by Direct Method                              | 5 mV to 105 V                                                                     | 0.29 %                                           |



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| 154  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Oscilloscope - BandWidth                                                                                                    | Using Signal Generator by Direct Method             | 300 MHz to 3 GHz                                                                  | 5 %                                              |
| 155  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Oscilloscope - BandWidth                                                                                                    | Using Multi Product Calibrator by Direct Method     | 50 kHz to 300 MHz                                                                 | 2 % to 5 %                                       |
| 156  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Oscilloscope - DC Amplitude                                                                                                 | Using Multi Product Calibrator by Direct Method     | 5 mV to 33 V                                                                      | 0.29 %                                           |
| 157  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Oscilloscope - DC Amplitude                                                                                                 | Using Multi Product Calibrator by Direct Method     | (-) 5 mV to (-) 33 V                                                              | 0.06 %                                           |
| 158  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Oscilloscope - Time Base                                                                                                    | Using Multi Product Calibrator by Direct Method     | 50 ns to 5 s                                                                      | 0.028 % to 0.21 %                                |
| 159  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | pH Meter (-) 400 mV to 400 mV                                                                                               | Using Multi Product Calibrator by Simulation Method | 0 pH to 14 pH                                                                     | 0.057 %                                          |



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| 160  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | Amplitude Modulation (CF: 10 MHz to 1.3 GHz) @ Mod Rate: 50 Hz to 10 kHz                                                    | Using Spectrum Analyzer by Direct Method                                                       | 10 % to 90 %                                                                      | 4.4 % to 4.1 %                                   |
| 161  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | Frequency Modulation (CF: 10 MHz to 1.3 GHz) @ Mod rate: 50 Hz to 10 kHz                                                    | Using Spectrum Analyzer and Signal generator by Direct / Comparison Method                     | 10 kHz to 100 kHz                                                                 | 2.94 %                                           |
| 162  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | Frequency                                                                                                                   | Using Frequency Counter/Counter power meter and signal generator by Direct / Comparison Method | 10 kHz to 40 GHz                                                                  | 0.0001 % to 0.000019 %                           |
| 163  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | Reflection Coefficient / Voltage Standing Wave Ratio @ 9 kHz to 26.5 GHz                                                    | Using Network Analyzer, Cal Kit with 50 ohm termination by Comparison Method                   | 0.024 rho to 0.33 rho                                                             | 2.58 % to 9 %                                    |



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| 164  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Microwave Power Loss, Attenuation, Insertion Loss, Return Loss, Coupling Loss, Decoupling Loss, Isolation Loss - Attenuation @ 30 kHz to 26.5 GHz | Using Network / Spectrum Analyser by Direct Method                       | 0 dB to 60 dB                                                                     | 0.63 dB                                                |
| 165  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Microwave Power Loss, Insertion Loss, Return Loss, Coupling Loss, Decoupling Loss, Isolation Loss - Attenuation @ 9 kHz to 3.2 GHz                | Using Network / Spectrum Analyser by Direct Method                       | 0 dB to 50 dB                                                                     | 0.49 dB                                                |
| 166  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Microwave Power Loss, Insertion Loss, Return Loss, Coupling Loss, Decoupling Loss, Isolation Loss @ 50 ohm - Attenuation (9 kHz to 26.5 GHz)      | Using Vector Network Analyzer by Direct Method                           | 1 ohm to 300 ohm                                                                  | 3.2 %                                                  |
| 167  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Power (30 kHz to 26.5 GHz)                                                                                                                        | Using Spectrum Analyzer & Signal Generator by Direct / Comparison Method | (-) 60 dBm to 10 dBm                                                              | 0.66 dB                                                |



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| 168  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Power (9 kHz to 3.2 GHz)                                                                                                 | Using Spectrum Analyzer & Signal Generator by Direct / Comparison Method         | (-) 60 dBm to 13 dBm                                                              | 0.54 dB                                          |
| 169  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Power @ 10 MHz to 18 GHz                                                                                                 | Using Power Meter with Sensor and Signal Generator by Direct / Comparison Method | (-) 10 dBm to 13 dBm                                                              | 0.42 dB to 0.4 dB                                |
| 170  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Power @ 10 MHz to 18 GHz                                                                                                 | Using Power Meter with Sensor and Signal Generator by Direct / Comparison Method | (-) 60 dBm to (-) 10 dBm                                                          | 0.52 dB to 0.45 dB                               |
| 171  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)  | Amplitude Modulation (CF: 100 kHz to 2.1 GHz) @ Mod rate: 50 Hz to 10 kHz                                                   | Using Signal Generator by Direct Method                                          | 10 % to 90 %                                                                      | 5.89 % to 2.43 %                                 |
| 172  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)  | Frequency Modulation (CF : 10 MHz to 2.1 GHz) @ Mod rate : 50 Hz to 10 kHz                                                  | Using Signal Generator by Direct Method                                          | 10 kHz to 100 kHz                                                                 | 2.99 %                                           |



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| 173  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Frequency                                                                                                                   | Using Signal Generator by Direct Method         | 3 GHz to 40 GHz                                                                   | 0.0001 % to 0.0019 %                             |
| 174  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Frequency                                                                                                                   | Using Signal Generator by Direct Method         | 9 kHz to 3 GHz                                                                    | 0.00058 % to 0.0001 %                            |
| 175  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | RF Power @ 3 GHz to 40 GHz                                                                                                  | Using Signal Generator by Direct Method         | (-) 60 dBm to 13 dBm                                                              | 0.46 dB                                          |
| 176  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | RF Power @ 9 kHz to 3 GHz                                                                                                   | Using Signal Generator by Direct Method         | (-) 60 dBm to 13 dBm                                                              | 0.5 dB                                           |
| 177  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)        | T Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 250 °C to (-) 150 °C                                                          | 0.73 °C                                          |



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| 178  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | T Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > (-) 150 °C to 0 °C                                                              | 0.28 °C                                          |
| 179  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | B Type Thermocouple                                                                                                         | Using 8½ Digit Multimeter by Direct Method      | 100 °C to 1800 °C                                                                 | 0.1 °C                                           |
| 180  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | B Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 600 °C to 1800 °C                                                                 | 0.45 °C                                          |
| 181  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | E Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 250 °C to (-) 100 °C                                                          | 0.58 °C                                          |
| 182  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | E Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > (-) 100 °C to 1000 °C                                                           | 0.19 °C                                          |
| 183  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | E Type Thermocouple                                                                                                         | Using 8½ Digit Multimeter by Direct Method      | (-) 250 °C to 1000 °C                                                             | 0.014 °C                                         |



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| 184  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | J Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 760 °C to 1000 °C                                                               | 0.2 °C                                                 |
| 185  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | J Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 210 °C to (-) 100 °C                                                          | 0.31 °C                                                |
| 186  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | J Type Thermocouple                                                                                                         | Using 8½ Digit Multimeter by Direct Method      | (-) 200 °C to 1200 °C                                                             | 0.017 °C                                               |
| 187  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | J Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > (-) 100 °C to 760 °C                                                            | 0.17 °C                                                |
| 188  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | K Type Thermocouple                                                                                                         | Using 8½ Digit Multimeter by Direct Method      | (-) 200 °C to 1350 °C                                                             | 0.038 °C                                               |
| 189  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | K Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 1000 °C to 1372 °C                                                              | 0.3 °C                                                 |



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| 190  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | K Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 200 °C to (-) 100 °C                                                          | 0.21 °C                                                |
| 191  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | K Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > (-) 100 °C to 1000 °C                                                           | 0.19 °C                                                |
| 192  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | N Type Thermocouple                                                                                                         | Using 8½ Digit DMM by Direct Method             | (-) 200 °C to 1300 °C                                                             | 0.051 °C                                               |
| 193  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | N Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > (-) 100 °C to 1300 °C                                                           | 0.21 °C                                                |
| 194  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | N Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 200 °C to (-) 100 °C                                                          | 0.46 °C                                                |
| 195  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | R Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 400 °C to 1767 °C                                                               | 0.38 °C                                                |



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| 196  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | R Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 0 °C to 250 °C                                                                    | 0.66 °C                                          |
| 197  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | R Type Thermocouple                                                                                                         | Using 8½ Digit DMM by Direct Method             | 0 °C to 1750 °C                                                                   | 0.09 °C                                          |
| 198  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | R Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 250 °C to 400 °C                                                                | 0.4 °C                                           |
| 199  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | RTD (PT 100)                                                                                                                | Using 6½ Digit Multimeter by Direct Method      | (-) 200 °C to 300 °C                                                              | 0.12 °C                                          |
| 200  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | RTD (PT 100)                                                                                                                | Using 6½ Digit Multimeter by Direct Method      | > 300 °C to 600 °C                                                                | 0.16 °C                                          |
| 201  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | RTD (PT 100)                                                                                                                | Using 6½ Digit Multimeter by Direct Method      | > 600 °C to 800 °C                                                                | 0.26 °C                                          |



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|------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| 202  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | RTD (PT 100)                                                                                                                | Using 8½ Digit Multimeter by Direct Method      | (-) 200 °C to 800 °C                                                              | 0.04 °C                                                |
| 203  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | S Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 0 °C to 250 °C                                                                    | 0.54 °C                                                |
| 204  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | S Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 250 °C to 1767 °C                                                               | 0.43 °C                                                |
| 205  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | S Type Thermocouple                                                                                                         | Using 8½ Digit DMM by Direct Method             | 0 °C to 1750 °C                                                                   | 0.09 °C                                                |
| 206  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | T Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 0 °C to 400 °C                                                                    | 0.17 °C                                                |
| 207  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | T Type Thermocouple                                                                                                         | Using 8½ Digit Multimeter by Direct Method      | (-) 250 °C to 400 °C                                                              | 0.05 °C                                                |



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|------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| 208  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | B Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 100 °C to 600 °C                                                                  | 0.17 °C                                                |
| 209  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | B Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 600 °C to 1800 °C                                                               | 0.45 °C                                                |
| 210  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | B Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 100 °C to 1800 °C                                                                 | 0.17 °C                                                |
| 211  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | E Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 250 °C to (-) 100 °C                                                          | 0.58 °C                                                |
| 212  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | E Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > (-) 100 °C to 1000 °C                                                           | 0.19 °C                                                |
| 213  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | E Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 250 °C to 1000 °C                                                             | 0.1 °C                                                 |



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| 214  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | J Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 200 °C to 1200 °C                                                             | 0.1 °C                                                 |
| 215  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | J Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > (-) 100 °C to 760 °C                                                            | 0.17 °C                                                |
| 216  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | J Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 760 °C to 1050 °C                                                               | 0.2 °C                                                 |
| 217  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | J Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 200 °C to (-) 100 °C                                                          | 0.31 °C                                                |
| 218  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | K Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 200 °C to (-) 100 °C                                                          | 0.38 °C                                                |
| 219  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | K Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 1000 °C to 1350 °C                                                              | 0.3 °C                                                 |



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| 220  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | K Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | $> (-) 100^{\circ}\text{C}$ to $1000^{\circ}\text{C}$                             | $0.19^{\circ}\text{C}$                                 |
| 221  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | K Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | $(-) 200^{\circ}\text{C}$ to $1350^{\circ}\text{C}$                               | $0.11^{\circ}\text{C}$                                 |
| 222  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | N Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | $(-) 200^{\circ}\text{C}$ to $(-) 100^{\circ}\text{C}$                            | $0.46^{\circ}\text{C}$                                 |
| 223  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | N Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | $> (-) 100^{\circ}\text{C}$ to $1300^{\circ}\text{C}$                             | $0.21^{\circ}\text{C}$                                 |
| 224  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | N Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | $(-) 200^{\circ}\text{C}$ to $1300^{\circ}\text{C}$                               | $0.11^{\circ}\text{C}$                                 |
| 225  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | R Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | $0^{\circ}\text{C}$ to $1750^{\circ}\text{C}$                                     | $0.18^{\circ}\text{C}$                                 |



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|------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| 226  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | R Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 250 °C to 400 °C                                                                | 0.4 °C                                                 |
| 227  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | R Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 400 °C to 1750 °C                                                               | 0.38 °C                                                |
| 228  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | R Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 0 °C to 250 °C                                                                    | 0.66 °C                                                |
| 229  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | RTD (PT 100)                                                                                                                | Using Multi Product Calibrator by Direct Method | (-) 200 °C to 100 °C                                                              | 0.058 °C                                               |
| 230  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | RTD (PT 100)                                                                                                                | Using Multi Product Calibrator by Direct Method | > 100 °C to 300 °C                                                                | 0.08 °C                                                |
| 231  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | RTD (PT 100)                                                                                                                | Using Multi Product Calibrator by Direct Method | > 300 °C to 630 °C                                                                | 0.11 °C                                                |



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|------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| 232  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | RTD (PT 100)                                                                                                                | Using Multi Product Calibrator by Direct Method | > 630 °C to 800 °C                                                                | 0.15 °C                                                |
| 233  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | S Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 250 °C to 1767 °C                                                               | 0.43 °C                                                |
| 234  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | S Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 0 °C to 250 °C                                                                    | 0.54 °C                                                |
| 235  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | S Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 0 °C to 1750 °C                                                                   | 0.2 °C                                                 |
| 236  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | T Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 200 °C to (-) 150 °C                                                          | 0.73 °C                                                |
| 237  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | T Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 0 °C to 400 °C                                                                  | 0.17 °C                                                |



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| 238  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | T Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method                                       | > (-) 150 °C to 0 °C                                                              | 0.28 °C                                          |
| 239  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | T Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method                                       | (-) 200 °C to 400 °C                                                              | 0.036 °C                                         |
| 240  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)      | Frequency                                                                                                                   | Using Frequency Counter & Multiproduct Calibrator by Direct / Comparison Method       | 100 Hz to 10 kHz                                                                  | 0.001 %                                          |
| 241  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)      | Frequency                                                                                                                   | Using Frequency Counter & Digital Multimeter by Direct / Comparison Method            | 0.1 Hz to 100 Hz                                                                  | 0.016 % to 0.001 %                               |
| 242  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)      | Frequency                                                                                                                   | Using 6.5 Digital Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 Hz to 40 Hz                                                                    | 0.16 % to 0.08 %                                 |
| 243  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)      | Frequency                                                                                                                   | Using 6.5 Digital Multimeter & Multi Product Calibrator by Direct / Comparison Method | 3 Hz to 5 Hz                                                                      | 0.22 %                                           |



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| 244  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Frequency                                                                                                                   | Using 6.5 Digital Multimeter & Multi Product Calibrator by Direct / Comparison Method | 300 kHz to 1000 kHz                                                               | 0.022 %                                          |
| 245  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Frequency                                                                                                                   | Using 6.5 Digital Multimeter & Multi Product Calibrator by Direct / Comparison Method | 5 Hz to 10 Hz                                                                     | 0.22 % to 0.16 %                                 |
| 246  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time                                                                                                                        | Using Digital Timer by Comparison Method                                              | 10000 s to 86400 s                                                                | 0.5 s                                            |
| 247  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time                                                                                                                        | Using Digital Timer by Comparison Method                                              | > 10 s to 100 s                                                                   | 0.17 s                                           |
| 248  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time                                                                                                                        | Using Digital Timer by Comparison Method                                              | > 100 s to 1000 s                                                                 | 0.23 s to 0.5 s                                  |
| 249  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time                                                                                                                        | Using Digital Timer by Comparison Method                                              | 0.10 s to 10 s                                                                    | 0.001 s to 0.11 s                                |



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| 250  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time                                                                                                                        | Using Digital Timer by Comparison Method                                          | 1000 s to 10000 s                                                                 | 0.5 s                                            |
| 251  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time Period                                                                                                                 | Using Frequency Counter and Signal Generator by Direct Method / Comparison Method | 5 s to 25 ps                                                                      | 0.0001 % to 0.000019 %                           |
| 252  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)  | Frequency                                                                                                                   | Using Multi Product Calibrator by Direct Method                                   | 11.999 kHz to 119.9 kHz                                                           | 0.006 %                                          |
| 253  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)  | Frequency                                                                                                                   | Using Multi Product Calibrator by Direct Method                                   | 119.9 kHz to 1199.9 kHz                                                           | 0.006 % to 0.004 %                               |
| 254  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)  | Frequency                                                                                                                   | Using Multi Product Calibrator by Direct Method                                   | 119.99 Hz to 1199.9 Hz                                                            | 0.006 % to 0.004 %                               |
| 255  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)  | Frequency                                                                                                                   | Using Multi Product Calibrator by Direct Method                                   | 1199.9 Hz to 11.999 kHz                                                           | 0.006 %                                          |



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| 256  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source) | Frequency                                                                                                                   | Using Multi Product Calibrator by Direct Method                             | 1199.9 kHz to 2 MHz                                                               | 0.004 %                                          |
| 257  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source) | Frequency                                                                                                                   | Using Multi Product Calibrator by Direct Method                             | 3Hz to 1199.9 Hz                                                                  | 0.06% to 0.006%                                  |
| 258  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source) | Time Period                                                                                                                 | Using Signal Generator by Direct Method                                     | 100 $\mu$ s to 25 ps                                                              | 0.0031 % to 0.009 %                              |
| 259  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source) | Time Period                                                                                                                 | Using Function Generator by Direct Method                                   | 5 s to 100 $\mu$ s                                                                | 0.0005 %                                         |
| 260  | FLUID FLOW-FLOW MEASURING DEVICES           | Flow Velocity (Air)                                                                                                         | Using Air Velocity Sensor with Indicator & Wind Tunnel by Comparison Method | > 5 m/s to 30 m/s                                                                 | 2.88 %                                           |
| 261  | FLUID FLOW-FLOW MEASURING DEVICES           | Flow Velocity (Air)                                                                                                         | Using Air Velocity Sensor with Indicator & Wind Tunnel by Comparison Method | 0.3 m/s to 5 m/s                                                                  | 5.73 %                                           |



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| 262  | FLUID FLOW-FLOW MEASURING DEVICES | Volume Flow Rate (Air / Gas)                                                                                                | Using Gas Flow Calibrator by Comparison Method | 1 lpm to 100 lpm                                                                  | 1 %                                              |
| 263  | FLUID FLOW-FLOW MEASURING DEVICES | Volume Flow Rate (Air / Gas)                                                                                                | Using Gas Flow Calibrator by Comparison Method | 60 cc/min to 10000 cc/min                                                         | 1.36 %                                           |
| 264  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Contact Type                                                        | Using Digital Tachometer by Comparison Method  | > 1000 rpm to 8000 rpm                                                            | 9.6 rpm                                          |
| 265  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Contact Type                                                        | Using Digital Tachometer by Comparison Method  | 100 rpm to 1000 rpm                                                               | 2.4 rpm                                          |
| 266  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Non-Contact Type                                                    | Using Digital Tachometer by Comparison Method  | > 100 rpm to 1000 rpm                                                             | 2.7 rpm                                          |
| 267  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Non-Contact Type                                                    | Using Digital Tachometer by Comparison Method  | > 1000 rpm to 10000 rpm                                                           | 9.6 rpm                                          |
| 268  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Non-Contact Type                                                    | Using Digital Tachometer by Comparison Method  | > 10000 rpm to 20000 rpm                                                          | 18.12 rpm                                        |



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| 269  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Non-Contact Type                                                     | Using Digital Tachometer by Comparison Method                           | > 20000 rpm to 50000 rpm                                                          | 31.77 rpm                                        |
| 270  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Non-Contact Type                                                     | Using Digital Tachometer by Comparison Method                           | > 50000 rpm to 90000 rpm                                                          | 57.23 rpm                                        |
| 271  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Non-Contact Type                                                     | Using Digital Tachometer by Comparison Method                           | 6 rpm to 100 rpm                                                                  | 0.38 rpm                                         |
| 272  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Contact Type                                                          | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 100 rpm to 1000 rpm                                                             | 2.4 rpm                                          |
| 273  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Contact Type                                                          | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 1000 rpm to 4000 rpm                                                            | 9.6 rpm                                          |
| 274  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Contact Type                                                          | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 4000 rpm to 8000 rpm                                                            | 9.6 rpm                                          |



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| 275  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Contact Type                                                         | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | 6 rpm to 100 rpm                                                                  | 0.31 rpm                                         |
| 276  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Non-Contact Type                                                     | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 100 rpm to 1000 rpm                                                             | 2.7 rpm                                          |
| 277  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Non-Contact Type                                                     | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 1000 rpm to 10000 rpm                                                           | 9.6 rpm                                          |
| 278  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Non-Contact Type                                                     | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 10000 rpm to 20000 rpm                                                          | 18.12 rpm                                        |
| 279  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Non-Contact Type                                                     | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 20000 rpm to 50000 rpm                                                          | 31.77 rpm                                        |
| 280  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Non-Contact Type                                                     | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 50000 rpm to 90000 rpm                                                          | 57.23 rpm                                        |



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| 281  | MECHANICAL-ACCELERATION AND SPEED | Tachometer (Contact Type)                                                                                                   | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 100 rpm to 1000 rpm                                                             | 2.48 rpm                                               |
| 282  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Contact Type                                                                                                   | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 1000 rpm to 4000 rpm                                                            | 9.6 rpm                                                |
| 283  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Contact Type                                                                                                   | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | 6 rpm to 100 rpm                                                                  | 0.38 rpm                                               |
| 284  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Contact Type                                                                                                   | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 4000 rpm to 8000 rpm                                                            | 8.73 rpm                                               |
| 285  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Non-Contact Type                                                                                               | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | 6 rpm to 100 rpm                                                                  | 0.38 rpm                                               |
| 286  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Non-Contact Type                                                                                               | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 100 rpm to 1000 rpm                                                             | 2.7 rpm                                                |



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| 287  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Non-Contact Type                                                                                               | Using Digital Tachometer and Tachometer Calibrator by Comparison Method                     | > 1000 rpm to 10000 rpm                                                           | 9.6 rpm                                                |
| 288  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Non-Contact Type                                                                                               | Using Digital Tachometer and Tachometer Calibrator by Comparison Method                     | > 10000 rpm to 20000 rpm                                                          | 18.12 rpm                                              |
| 289  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Non-Contact Type                                                                                               | Using Digital Tachometer and Tachometer Calibrator by Comparison Method                     | > 20000 rpm to 50000 rpm                                                          | 31.76 rpm                                              |
| 290  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Non-Contact Type                                                                                               | Using Digital Tachometer and Tachometer Calibrator by Comparison Method                     | > 50000 rpm to 90000 rpm                                                          | 54.9 rpm                                               |
| 291  | MECHANICAL-ACCELERATION AND SPEED | Vibration Meter - Displacement @ 10 Hz to 100 Hz                                                                            | Using Digital Vibration Meter and Vibration Source by Comparison Method as per ISO 16063-21 | 0.05 mm pk to 1 mm pk                                                             | 14.69 %                                                |
| 292  | MECHANICAL-ACCELERATION AND SPEED | Vibration Meter - Velocity @ 10 Hz to 300 Hz                                                                                | Using Digital Vibration Meter and Vibration Source by Comparison Method as per ISO 16063-21 | 1 mm/s pk to 100 mm/s pk                                                          | 7.89 %                                                 |



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| 293  | MECHANICAL-ACCELERATION AND SPEED                             | Vibration Meter / Accelerometer - Acceleration @ 10 Hz to 300 Hz                                                            | Using Digital Vibration Meter and Vibration Source by Comparison Method as per ISO 16063-21    | 1 m/s <sup>2</sup> pk to 50 m/s <sup>2</sup> pk                                   | 6.89 %                                           |
| 294  | MECHANICAL-ACOUSTICS                                          | Sound Level Meter @ 1 kHz                                                                                                   | Using Sound Level Calibrator by Direct Method                                                  | 114 dB                                                                            | 0.7 dB                                           |
| 295  | MECHANICAL-ACOUSTICS                                          | Sound Level Meter @ 1 kHz                                                                                                   | Using Sound Level Calibrator by Direct Method                                                  | 94 dB                                                                             | 0.7 dB                                           |
| 296  | MECHANICAL-DENSITY AND VISCOSITY                              | Density Hydrometer                                                                                                          | Using Precision Weighing Balance (Readability: 0.1 mg) by Cuckow's Hydrostatic Weighing Method | 0.6 g/ml to 2 g/ml                                                                | 0.0007 g/ml                                      |
| 297  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Analog / Digital External Micrometer (L.C.: 0.001 mm & Coarser)                                                             | Using Gauge Block Set by Comparison Method                                                     | 0 to 25 mm                                                                        | 2 µm                                             |
| 298  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Analog / Digital External Micrometer (L.C.: 0.01 mm & Coarser)                                                              | Using Gauge Block Set & Long Slip Gauges by Comparison Method                                  | 0 to 200 mm                                                                       | 6.46 µm                                          |



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| 299  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Angle Gauge                                                                                                                 | Using Sine Bar Gauge Block, Digital Dial indicator & Surface Plate by Direct Method | 1° to 30°                                                                         | 3 Minutes of Arc                                 |
| 300  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Bevel Protractor / Combination set (L.C.: 1°)                                                                               | Using Profile Projector by Comparison Method                                        | 0° to 360°                                                                        | 0.95°                                            |
| 301  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Bevel Protractor / Combination set (L.C.: 10 Seconds of Arc)                                                                | Using Angle Gauge Block by Direct Method                                            | 0°- 90° - 0°                                                                      | 0.86°                                            |
| 302  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Bore Gauge - Transmission Error (L.C.: 0.001 mm)                                                                            | Using Dial Calibration Tester by Comparison Method                                  | 0 to 1 mm                                                                         | 4.3 µm                                           |
| 303  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Coating Thickness Gauge (L.C.: 0.001 mm)                                                                                    | Using Standard Foils by Comparison Method                                           | 50 µm to 1450 µm                                                                  | 1.2 µm                                           |



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| 304  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Comparator Stand - Flatness                                                                                                 | Using Dial Indicator by Comparison Method                                | 50 mm to 400 mm                                                                   | 3.09 µm                                          |
| 305  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Cube Mould (Length & Width)                                                                                                 | Using Digital Caliper by Comparison Method                               | 50 mm X 50 mm to 150 mm X 150 mm                                                  | 17.5 µm                                          |
| 306  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Cylindrical Measuring Pin                                                                                                   | Using Digital Dial Indicator & Slip Gauge Block Set by Comparison Method | 0.5 mm to 20 mm                                                                   | 0.73 µm                                          |
| 307  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial / Digital Thickness Gauge (L.C.: 0.01 mm & Coarser)                                                                    | Using Slip Gauge Block Set by Comparison Method                          | 0 to 10 mm                                                                        | 5.81 µm                                          |
| 308  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial Depth Gauge (L.C.: 0.01 mm & Coarser)                                                                                  | Using Slip Gauge Block Set, Gauge block accessories by Comparison Method | 0 to 25 mm                                                                        | 5.82 µm                                          |



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| 309  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Digital / Dial / External - Depth Micrometer (L.C : 0.001 mm)                                                               | Using Gauge Block Set & Long Slip Gauges by Comparison Method                           | 0 to 300 mm                                                                       | 2.95 µm                                          |
| 310  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Digital / Dial / Vernier Caliper (L.C.: 0.01 mm)                                                                            | Using Gauge Block Set & Caliper Checker by Comparison Method                            | 0 to 300 mm                                                                       | 7.86 µm                                          |
| 311  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Digital / Dial / Vernier Caliper (L.C.: 0.01 mm)                                                                            | Using Gauge Block Set & Caliper Checker by Comparison Method                            | 0 to 600 mm                                                                       | 12.5 µm                                          |
| 312  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Elongation Gauge (Length)                                                                                                   | Using Digital Caliper by Direct Method                                                  | 10 mm to 60 mm                                                                    | 20 µm                                            |
| 313  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Engineer's Parallel (Thickness and Width)                                                                                   | Using Slip Gauge block Set, Surface Plate & Digital Dial Indicator by Comparison Method | 100 mm to 300 mm                                                                  | 3.3 µm                                           |



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| 314  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Engineer's Parallel (Equality of Pairs)                                                                                     | Using Slip Gauge Block Set, Surface Plate & Digital Dial Indicator by Comparison Method | 100 mm to 300 mm                                                                  | 3.5 µm                                           |
| 315  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Engineer's Parallel (Parallelism)                                                                                           | Using Slip Gauge block Set, Surface Plate & Digital Dial Indicator by Comparison Method | 100 mm to 300 mm                                                                  | 3.5 µm                                           |
| 316  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Engineer's Parallel (Width Variation In Thickness)                                                                          | Using Slip Gauge block Set, Surface Plate & Digital Dial Indicator by Comparison Method | 100 mm to 300 mm                                                                  | 3.3 µm                                           |
| 317  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Feeler Gauge                                                                                                                | Using Digital Dial Indicator, Comparator stand by Comparison Method                     | 0.03 mm to 1 mm                                                                   | 2 µm                                             |
| 318  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Feeler Gauge                                                                                                                | Using Digital Micrometer by Direct Method                                               | 0.03 mm to 1 mm                                                                   | 2.38 µm                                          |



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| 319  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Flakiness Gauge                                                                                                             | Using Profile Projector by Direct Method                                | 10 mm to 63 mm                                                                    | 20 µm                                            |
| 320  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Flush Pin Gauge                                                                                                             | Using Slip Gauge block Set, Digital Dial indicator by Comparison Method | 1 mm to 100 mm                                                                    | 3.6 µm                                           |
| 321  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Gauge Block Accessories (Flatness)                                                                                          | Using Gauge Block & Digital Dial indicator by Comparison Method         | 2.5 mm to 250 mm                                                                  | 1 µm                                             |
| 322  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Gauge Block Accessories (Parallelism)                                                                                       | Using Gauge Block & Optical Flat by Comparison Method                   | 2.5 mm to 60 mm                                                                   | 3.5 µm                                           |
| 323  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Granite Square (Flatness)                                                                                                   | Using Surface Plate & Dial Indicator by Comparison Method               | 100 mm to 600 mm                                                                  | 3.67 µm                                          |



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| 324  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Granite Square (Squareness)                                                                                                 | Using Surface Plate & Dial Indicator, Granite Square by Comparison Method           | 100 mm to 600 mm                                                                  | 10 µm                                            |
| 325  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Hegman Gauge - Depth Measurement                                                                                            | Using Plunger Digital Dial Gauge, Comparator stand by Direct Method                 | 0 to 100 µm                                                                       | 3 µm                                             |
| 326  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Inclinometer / Digital Angle Protractor (L.C.: 0.01°)                                                                       | Using Angle Gauge Block by Direct Method                                            | 0° to 360°                                                                        | 3.6 Minutes of Arc                               |
| 327  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Internal / Stick Micrometer (L.C.: 0.01 mm)                                                                                 | Using Gauge Block Set & Long Slip Gauges & Dial Test Indicator by Comparison Method | 50 mm to 600 mm                                                                   | 7.98 µm                                          |
| 328  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Laser Distance Meter (L.C.: 1 mm)                                                                                           | Using Slip Gauge and Long Slip Gauge by Comparison Method                           | 50 mm to 1000 mm                                                                  | 592.84 µm                                        |



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|------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 329  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Lever Dial Gauge (L.C.: 0.001 mm & coarser)                                                                                 | Using Dial Calibration Tester by Comparison Method      | 0 to 0.14 mm                                                                      | 1.79 µm                                          |
| 330  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Limit Gauge (Depth)                                                                                                         | Using Digital Vernier by Direct Method                  | 5 mm to 300 mm                                                                    | 20 µm                                            |
| 331  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Limit Gauge (Length)                                                                                                        | Using Digital Vernier by Direct Method                  | 5 mm to 200 mm                                                                    | 20 µm                                            |
| 332  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Limit Gauge - Angle                                                                                                         | Using Profile Projector by Direct method                | 0° to 360°                                                                        | 4 Minutes of Arc                                 |
| 333  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Limit Gauge - Height, Depth, Length, Diameter, Radius                                                                       | Using Gauge Blocks & Profile Projector by Direct Method | 0 to 200 mm                                                                       | 6 µm                                             |



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| 334  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Measuring Scale (L.C.: 1 mm)                                                                                                | Using Scale and Tape Calibrator by Direct Method                         | Up to 1000 mm                                                                     | 577.48 $\mu$ m                                   |
| 335  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Measuring Tape / Pie Tape (L.C.: 1 mm)                                                                                      | Using Scale and Tape Calibrator by Direct Method                         | 0 to 50 m                                                                         | 577 x sqrt(L) $\mu$ m, where L (L > 1 m) in m    |
| 336  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Micrometer Head - Deviation of Traverse over (L.C.: 0.0002 mm & Coarser)                                                    | Using Digital Dial Indicator & Slip Gauge Block Set by Comparison Method | 0 to 25 mm                                                                        | 1.3 $\mu$ m                                      |
| 337  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Micrometer Setting Rod                                                                                                      | Using Slip Gauge Set, Digital Dial Indicator by Comparison Method        | > 100 mm to 250 mm                                                                | 4 $\mu$ m                                        |
| 338  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Micrometer Setting Rod                                                                                                      | Using Slip Gauge Block, Digital Dial Indicator by Comparison Method      | 25 mm to 100 mm                                                                   | 2 $\mu$ m                                        |



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| 339  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Micrometer Setting Rod                                                                                                      | Using Slip Gauge Set, Digital Dial Indicator by Comparison Method        | > 250 mm to 600 mm                                                                | 3.72 µm                                          |
| 340  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Pitch Gauge (Linear)                                                                                                        | Using Profile Projector by Comparison Method                             | 0.35 mm to 7 mm                                                                   | 5.51 µm                                          |
| 341  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Plug Gauge / Width Gauge                                                                                              | Using Digital Dial Indicator & Slip Gauge Block Set by Comparison Method | > 100 mm to 300 mm                                                                | 2.5 µm                                           |
| 342  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Plug Gauge / Width Gauge                                                                                              | Using Slip Gauge Block Set, Digital Dial Indicator by Comparison Method  | 1 mm to 100 mm                                                                    | 1.3 µm                                           |
| 343  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plunger Dial Gauge (L.C.: 0.001 mm & coarser)                                                                               | Using Dial Calibration Tester by Comparison Method                       | 0 to 25 mm                                                                        | 1.51 µm                                          |



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| 344  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plunger Dial Gauge (L.C.: 0.01 mm & coarser)                                                                                | Using Dial Calibration Tester & Slip Gauge Block Set by Comparison Method | 0 to 50 mm                                                                        | 3.75 µm                                          |
| 345  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plunger Dial Gauge (L.C.: 0.0001 mm & coarser)                                                                              | Using Slip Gauge Block Set & Comparator Stand by Comparison Method        | 0 to 25 mm                                                                        | 0.59 µm                                          |
| 346  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Radius Gauge (Concave & Convex)                                                                                             | Using Profile Projector by Comparison Method                              | 0.5 mm to 40 mm                                                                   | 5.51 µm                                          |
| 347  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Receiving Gauge / Profile Gauge / Profile of Work Piece - Angle                                                             | Using Profile Projector by Direct Method                                  | 0° to 360°                                                                        | 4.5 Minutes of Arc                               |
| 348  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Receiving Gauge / Profile Gauge / Profile of Work Piece - Radius                                                            | Using Profile Projector by Direct Method                                  | 0 to 100 mm                                                                       | 10 µm                                            |



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| 349  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Snap Gauge / Gap Gauge (Fixed / Adjustable)                                                                                 | Using Slip Gauge block set by Comparison Method                   | 100 mm to 300 mm                                                                  | 2.8 µm                                           |
| 350  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Snap Gauge / Gap Gauge (Fixed / Adjustable)                                                                                 | Using Slip Gauge block Set by Comparison Method                   | 3 mm to 100 mm                                                                    | 1.42 µm                                          |
| 351  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Standard Foils                                                                                                              | Using Digital Dial indicator with Comparator by Comparison Method | 0.01 mm to 2 mm                                                                   | 0.38 µm                                          |
| 352  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Surface Plate (Granite / Cast Iron)                                                                                         | Using Spirit Level by Comparison Method                           | Up to 2000 mm X 2000 mm                                                           | 1.4 x sqrt(L+B) / 150 µm, Where L & B in mm      |
| 353  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Taper Scale (L.C.: 0.1 mm)                                                                                                  | Using Profile Projector by Direct Method                          | 1 mm to 60 mm                                                                     | 59 µm                                            |



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| 354  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Template Gauge (Length)                                                                                                     | Using Digital Vernier Caliper by Comparison Method                       | 1 mm to 150 mm                                                                    | 17 µm                                            |
| 355  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Test Sieve - Aperture Size                                                                                                  | Using Profile Projector by Comparison Method                             | 0.03 mm to 10 mm                                                                  | 5.9 µm                                           |
| 356  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Test Sieve - Aperture Size                                                                                                  | Using Digital Caliper by Direct Method                                   | 10 mm to 150 mm                                                                   | 15.1 µm                                          |
| 357  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Measuring Wire                                                                                                       | Using Digital Dial Indicator & Slip Gauge block Set by Comparison Method | 0.17 mm to 6.35 mm                                                                | 1 µm                                             |
| 358  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Pitch Gauge (Angle)                                                                                                  | Using Profile Projector by Direct Method                                 | 55° & 60°                                                                         | 4.2 Minutes of Arc                               |



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| 359  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Ultrasonic Thickness Gauge (L.C.: 0.1 mm & Coarser)                                                                         | Using Slip Gauge Block Set, Long Slip by Comparison Method                         | 0 to 300 mm                                                                       | 58.10 µm                                         |
| 360  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | V Block (Flatness)                                                                                                          | Using Lever Dial & Test Mandrel by Direct Method                                   | 25 mm to 250 mm                                                                   | 4 µm                                             |
| 361  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | V Block (Parallelism)                                                                                                       | Using Slip Gauge Blocks, Lever Dial, Test Mandrel by Direct Method                 | 25 mm to 250 mm                                                                   | 4.5 µm                                           |
| 362  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | V Block (Squareness)                                                                                                        | Using Granite Square, Slip Gauge Blocks, Lever Dial, Test Mandrel by Direct Method | 25 mm to 250 mm                                                                   | 4 µm                                             |
| 363  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | V Block (Symmetricity)                                                                                                      | Using Slip Gauge Blocks, Lever Dial, Test Mandrel by Direct Method                 | 25 mm to 250 mm                                                                   | 4.5 µm                                           |



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| 364  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Vernier / Dial / Digital Height Gauge (L.C.: 0.01 mm & coarser)                                                             | Using Gauge Block Set & Long Slip Gauges by Comparison Method | 0 to 600 mm                                                                       | 9.77 µm                                          |
| 365  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Weld Fillet Gauge (Radius, Linear)                                                                                          | Using Profile Projector by Comparison Method                  | Up to 200 mm                                                                      | 5.13 µm                                          |
| 366  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Weld Fillet Gauge / Weld Gauge / Hi-Lo Gauge / Bridge Cam Gauge / Chamfer Gauge - Length                                    | Using Profile Projector by Direct Method                      | 0 to 60 mm                                                                        | 58 µm                                            |
| 367  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Weld Fillet Gauge / Weld Gauge / Hi-Lo Gauge / Bridge Cam Gauge / Chamfer Gauge - Angle (Fixed Type)                        | Using Profile Projector by Direct Method                      | 1° to 90°                                                                         | 4.2 Minutes of Arc                               |
| 368  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Weld Gauge / Weld Fillet Gauge (Scale / Depth)                                                                              | Using Profile Projector by Comparison Method                  | Up to 60 mm                                                                       | 288.73 µm                                        |



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| 369  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Wet Film gauge                                                                                                              | Using Profile Projector by Direct Method                                                        | 0.01 mm to 3 mm                                                                   | 6 µm                                             |
| 370  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Wire Gauge                                                                                                                  | Using Profile Projector by Direct Method                                                        | 0.19 mm to 7.82 mm                                                                | 7 µm                                             |
| 371  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)                  | Caliper Checker                                                                                                             | Using Gauge Block Set & Long Slip Gauges, Lever Dial Gauge & Surface Plate by Comparison Method | 0 to 1000 mm                                                                      | 5.71 µm                                          |
| 372  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)                  | Dial Calibration Tester (L.C.: 0.0001 mm & Coarser)                                                                         | Using Slip Gauge Block Set by Comparison Method                                                 | 0 to 25 mm                                                                        | 1.2 µm                                           |
| 373  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)                  | Length bar                                                                                                                  | Using Digital Dial Indicator & Slip Gauge Block Set by Comparison Method                        | > 300 mm to 600 mm                                                                | 7.1 µm                                           |
| 374  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)                  | Length bar                                                                                                                  | Using Digital Dial Indicator & Slip Gauge Block Set by Comparison Method                        | 100 mm to 300 mm                                                                  | 3.43 µm                                          |



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| 375  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | LVDT Probe with DRO / Dial Indicator (L.C.: 0.0001 mm & coarser)                                                            | Using Slip Gauge Block set & Comparator Stand by Comparison Method      | 0 to 25 mm                                                                        | 0.83 µm                                          |
| 376  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Ocular / Graticule (L.C.: 1°)                                                                                               | Using Profile Projector by Comparison Method                            | Up to 360°                                                                        | 1.67 Minutes of Arc                              |
| 377  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Ocular / Stage Micrometer / Eye Piece Graticule (L.C.: 0.01 mm)                                                             | Using Profile Projector by Direct Method                                | 0 to 100 mm                                                                       | 5.53 µm                                          |
| 378  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector - Angular (L.C.: 1 Second of Arc)                                                                         | Using Angle Gauge by Comparison Method                                  | Up to 360°                                                                        | 0.76 Minutes of Arc                              |
| 379  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector - Magnification                                                                                           | Using Slip Gauge, Long Slip Gauge, Digital Caliper by Comparison Method | 10 X to 100 X                                                                     | 0.69 %                                           |
| 380  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector / Video Measuring System / Microscope - Linear (L.C.: 0.0001 mm)                                          | Using Slip Gauges & Long Slip Gauges by Comparison Method               | Up to 300 mm                                                                      | 5 µm                                             |
| 381  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Tape & Scale Calibrator (L.C.: 0.001 mm)                                                                                    | Using Gauge Block Set & Long Slip by Comparison Method                  | 0 to 1000 mm                                                                      | 10.6 µm                                          |



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| 382  | MECHANICAL-DUROMETER                     | Rubber Hardness Tester / Durometer (Shore - A, O)                                                                                                  | Using Digital Load Cell with Indicator by Spring Force Measurement Method as per ISO 48-9: 2018 | 0 to 100 Shore A, O                                                               | 0.44 Shore A, O                                  |
| 383  | MECHANICAL-DUROMETER                     | Rubber Hardness Tester / Durometer (Shore - C, D)                                                                                                  | Using Digital Load Cell with Indicator by Spring Force Measurement Method as per ISO 48-9: 2018 | 0 to 100 Shore D, C                                                               | 0.44 Shore D, C                                  |
| 384  | MECHANICAL-MOBILE FORCE MEASURING SYSTEM | Push Pull Gauge, Force Gauge, Tension Gauge                                                                                                        | Using Stainless Steel Push Pull Weights with Hanger by Direct Method as per VDI/VDE 2624        | 0.5 N to 500 N                                                                    | 0.48 %                                           |
| 385  | MECHANICAL-MOBILE FORCE MEASURING SYSTEM | Spring Balance                                                                                                                                     | Using Newton Weights by Direct Method as per IS 1828 (Part 2): 2022                             | 0 to 2000 N                                                                       | 0.1 %                                            |
| 386  | MECHANICAL-PRESSURE INDICATING DEVICES   | Absolute Pressure: Analog / Digital Pressure Gauge, Pressure Transmitter with / without Indicator, Pressure Switch, Pressure Calibrator, Manometer | Using Absolute Pressure Calibrator & Digital Multimeter by Comparison Method as per DKD R 6-1   | 0.1 bar (abs) to 2 bar (abs)                                                      | 0.0005 bar (abs)                                 |



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| 387  | MECHANICAL-PRESSURE INDICATING DEVICES | Absolute Pressure: Analog / Digital Pressure Gauge, Pressure Transmitter with / without Indicator, Pressure Switch, Pressure Calibrator, Manometer, Barometer                                   | Using Using Absolute Pressure Calibrator, Digital Multimeter & Hand Pump by Comparison Method as per DKD R 6-1 | 750 mbar (abs) to 1050 mbar (abs)                                                 | 3 mbar (abs)                                     |
| 388  | MECHANICAL-PRESSURE INDICATING DEVICES | Hydraulic Medium: Analog / Digital Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Data Logger, Pressure Module, Pressure Transmitter | Using Hydraulic Dead Weight Tester & 6½ Digital Multimeter by Direct Method as per DKD R 6-1                   | 60 bar to 1200 bar                                                                | 0.010 %                                          |
| 389  | MECHANICAL-PRESSURE INDICATING DEVICES | Hydraulic Medium: Analog / Digital Pressure Gauge, Pressure Calibrator, Pressure Indicator, Pressure Controller, Pressure Recorder, Pressure Data Logger, Pressure Module, Pressure Transmitter | Using Hydraulic Dead Weight Tester & 6½ Digital Multimeter by Direct Method as per DKD R 6-1                   | 7 bar to 60 bar                                                                   | 0.015 %                                          |



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| 390  | MECHANICAL-PRESSURE INDICATING DEVICES | Hydraulic Medium: Analog / Digital Pressure Gauge, Pressure Transmitter with or without Indicator, Pressure Switch, Pressure Calibrator    | Using Digital Pressure Calibrator, Digital Multimeter and Hand Pump Comparator by Comparison Method as per DKD R 6-1 | 0 to 1000 bar                                                                     | 0.15 bar                                         |
| 391  | MECHANICAL-PRESSURE INDICATING DEVICES | Hydraulic Medium: Analog / Digital Pressure Gauge, Pressure Transmitter with or without Indicator, Pressure Switch, Pressure Calibrator    | Using Digital Pressure Calibrator, Digital Multimeter and Hand Pump Comparator by Comparison Method as per DKD R 6-1 | 0 to 700 bar                                                                      | 0.2 bar                                          |
| 392  | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Medium: Analog / Digital Vacuum Gauge, Vacuum Transmitter with or without Indicator, Vacuum Switch, Vacuum Calibrator, Manometer | Using Digital Calibrator & Digital Multimeter by Comparison Method as per DKD R 6-1                                  | (-) 0.95 bar to 0                                                                 | 0.0003 bar                                       |



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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)(±) |
|------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 393  | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Medium: Pressure Gauge, Magnehelic Gauge, Pressure Indicator, Controller, Transmitter, Switch, Manometer                                       | Using Digital Manometer (DPG), Digital Multimeter & Vacuum Pump by Comparison Method as per DKD R 6-1 | (-) 100 mbar to 100 mbar                                                          | 0.072 mbar                                       |
| 394  | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Medium: Pressure Gauge, Pressure Indicator, Controller, Transmitter with or without Indicator, Pressure Switch, Pressure Calibrator, Manometer | Using Digital Pressure Calibrator & Digital Multimeter by Comparison Method as per DKD R 6-1          | 0 to 2 bar                                                                        | 0.0008 bar                                       |
| 395  | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Medium: Pressure Gauge, Pressure Indicator, Controller, Transmitter with or without Indicator, Pressure Switch, Pressure Calibrator, Manometer | Using Digital Pressure Calibrator & Digital Multimeter by Comparison Method as per DKD R 6-1          | 0 to 40 bar                                                                       | 0.010 bar                                        |



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|------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 396  | MECHANICAL-TORQUE GENERATING DEVICES | Torque Wrench - Type I (Class A, B, C) & Type II (Class A, B, C, G)                                                                                 | Using Torque Transducer with indicator of various capacities, Torque Calibration ring as per clause 4 of ISO 6789: 2017 | 300 Nm to 1000 Nm                                                                 | 0.53 %                                           |
| 397  | MECHANICAL-TORQUE GENERATING DEVICES | Torque Wrench, Torque Driver - Type I (Class A B, C) & Type II (Class A, B, C, G)                                                                   | Using Torque Transducer With indicator of various capacities, Torque Calibration ring as per clause 4 of ISO 6789: 2017 | 10 Nm to 300 Nm                                                                   | 0.53 %                                           |
| 398  | MECHANICAL-TORQUE GENERATING DEVICES | Torque Wrench, Torque Driver - Type I (Class B, C, D, E) & Type II (Class A, B, D, E)                                                               | Using Torque Transducer with indicator of various capacities, Torque Calibration ring as per clause 4 of ISO 6789: 2017 | 0.1 Nm to 10 Nm                                                                   | 1.99 %                                           |
| 399  | MECHANICAL-TORQUE MEASURING DEVICES  | Torque Sensor with Indicator / Calibrator, Torque Transducer with or without Indicator, Torque Meter, Rotary / Impact / Torque Gauge, Torque Tester | Using Dead Weight Torque Calibration System of Lever Arm, SS Dead Weights & Digital Multimeter as per BS 7882           | 0.05 Nm to 0.1 Nm                                                                 | 0.78 %                                           |



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|------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 400  | MECHANICAL-TORQUE MEASURING DEVICES | Torque Sensor with Indicator / Calibrator, Torque Transducer with or without Indicator, Torque Meter, Rotary / Impact / Torque Gauge, Torque Tester                                                              | Using Dead Weight Torque Calibration System of Lever Arm, SS Dead Weights & Digital Multimeter as per BS 7882 | 0.1 Nm to 100 Nm                                                                  | 0.12 %                                           |
| 401  | MECHANICAL-TORQUE MEASURING DEVICES | Torque Sensor with Indicator / Calibrator, Torque Transducer with or without Indicator, Torque Meter, Rotary / Impact / Torque Gauge, Torque Tester                                                              | Using Dead Weight Torque Calibration System of Lever Arm, SS Dead Weights & Digital Multimeter as per BS 7882 | 100 Nm to 500 Nm                                                                  | 0.12 %                                           |
| 402  | MECHANICAL-VOLUME                   | Glassware: Graduated Beaker, Graduated Measuring Jar, Graduated Conical Flask, Graduated Crow Receiver, Specific Gravity Cup, Graduated Lechatelier Flask, Graduated Centrifuge Filter Tube, Graduated Dispenser | Using Precision Weighing Balance (Readability: 0.001 g) and Distilled Water by Gravimetric Method             | 100 ml to 1000 ml                                                                 | 870 µl                                           |



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|------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 403  | MECHANICAL-VOLUME  | Glassware:<br>Graduated Beaker,<br>Graduated Measuring Jar,<br>Graduated Conical Flask, Graduated Crow Receiver,<br>Specific Gravity Cup, Graduated Lechatelier Flask,<br>Graduated Centrifuge Filter Tube, Graduated Dispenser | Using Precision Weighing Balance (Readability: 0.01 mg) & Distilled Water by Gravimetric Method | 1 ml to 50 ml                                                                     | 0.94 µl                                          |
| 404  | MECHANICAL-VOLUME  | Glassware:<br>Graduated Beaker,<br>Graduated Measuring Jar,<br>Graduated Conical Flask, Graduated Crow Receiver,<br>Specific Gravity Cup, Graduated Lechatelier Flask,<br>Graduated Centrifuge Filter Tube, Graduated Dispenser | Using Precision Weighing Balance (Readability: 0.1 mg) & Distilled Water by Gravimetric Method  | 50 ml to 100 ml                                                                   | 95 µl                                            |



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|------|--------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 405  | MECHANICAL-VOLUME  | Glassware: Graduated Measuring Cylinder, Graduated Pipette, Graduated Burette, Pyknometer                                   | Using Precision Weighing Balance (Readability 0.1 mg) & Distilled Water by Gravimetric Method as per ISO 4787: 2021   | 10 ml to 20 ml                                                                    | 30 µl                                            |
| 406  | MECHANICAL-VOLUME  | Glassware: Graduated Measuring Cylinder, Graduated Pipette, Graduated Burette, Volumetric Flask, Pyknometer                 | Using Precision Weighing Balance (Readability: 0.1 mg) and Distilled Water by Gravimetric Method as per ISO4787: 2021 | 1 ml to 10 ml                                                                     | 1 µl                                             |
| 407  | MECHANICAL-VOLUME  | Glassware: Graduated Measuring Cylinder, Graduated Pipette, Graduated Burette, Volumetric Flask, Pyknometer                 | Using Precision Weighing Balance (Readability: 0.001 g) & Distilled Water by Gravimetric Method as per ISO 4787: 2021 | 100 ml to 1000 ml                                                                 | 870 µl                                           |
| 408  | MECHANICAL-VOLUME  | Glassware: Graduated Measuring Cylinder, Graduated Pipette, Graduated Burette, Volumetric Flask, Pyknometer                 | Using Precision Weighing Balance (Readability: 0.01 mg) & Distilled Water by Gravimetric Method as per ISO 4787: 2021 | 20 ml to 50 ml                                                                    | 0.94 µl                                          |



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|------|--------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 409  | MECHANICAL-VOLUME  | Glassware:<br>Graduated Measuring Cylinder, Graduated Pipette, Graduated Burette, Volumetric Flask, Pyknometer              | Using Precision Weighing Balance (Readability: 0.1 mg) and Distilled Water by Gravimetric Method as per ISO 4787: 2021  | 50 ml to 100 ml                                                                   | 95 µl                                            |
| 410  | MECHANICAL-VOLUME  | Glassware:<br>Graduated Measuring Cylinder, Volumetric Flask                                                                | Using Precision Weighing Balance (Readability: 0.01 g) & Distilled Water by Gravimetric Method as per ISO 4787: 2021    | 1000 ml to 4500 ml                                                                | 1.6 ml                                           |
| 411  | MECHANICAL-VOLUME  | Piston Operated Micropipette                                                                                                | Using Precision Weighing Balance (Readability: 0.01 mg) & Distilled Water by Gravimetric Method as per ISO 8655-6: 2022 | 100 µl to 1000 µl                                                                 | 5 µl                                             |
| 412  | MECHANICAL-VOLUME  | Piston Operated Micropipette                                                                                                | Using Precision Weighing Balance (Readability: 0.1 mg) & Distilled Water by Gravimetric Method as per ISO 8655-6: 2022  | 1000 µl to 10000 µl                                                               | 11.6 µl                                          |



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| 413  | MECHANICAL-VOLUME                     | Piston Operated Micropipette                                                                                                | Using Precision Weighing Balance (Readability: 0.001 mg) & Distilled Water by Gravimetric Method as per ISO 8655-6: 2022 | 20 µl to 100 µl                                                                   | 1 µl                                             |
| 414  | MECHANICAL-WEIGHING SCALE AND BALANCE | Digital / Analog Weighing Balance - Class I (Readability : 0.01 mg)                                                         | Using E1 Class Standard Weights as per OIML R 76-1                                                                       | 0 to 200 g                                                                        | 0.04 mg                                          |
| 415  | MECHANICAL-WEIGHING SCALE AND BALANCE | Digital / Analog Weighing Balance - Class II (Readability: 10 mg and coarser)                                               | Using E2 & F1 Class Standard Weights as per OIML R 76-1                                                                  | 0 to 1000 g                                                                       | 13 mg                                            |
| 416  | MECHANICAL-WEIGHING SCALE AND BALANCE | Digital / Analog Weighing Balance - Class II (Readability: 10 mg)                                                           | Using E2 & F1 Class Standard Weights as per OIML R 76-1                                                                  | 0 to 5 kg                                                                         | 10 mg                                            |
| 417  | MECHANICAL-WEIGHING SCALE AND BALANCE | Digital / Analog Weighing Balance - Class II (Readability: 100 mg)                                                          | Using F1 Class Standard Weights as per OIML R 76-1                                                                       | 0 to 20 kg                                                                        | 62.6 mg                                          |
| 418  | MECHANICAL-WEIGHING SCALE AND BALANCE | Digital / Analog Weighing Balance - Class IV (Readability: 20 g)                                                            | Using F1 & M1 Class Standard Weights as per OIML R 76-1                                                                  | 0 to 300 kg                                                                       | 13.2 g                                           |



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|------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 419  | MECHANICAL-WEIGHING SCALE AND BALANCE | Digital / Analog Weighing Balance - Class IV (Readability: 50 g and coarser)                                                | Using M1 Class Standard Weights as per OIML R 76-1                                                                                   | 0 to 1000 kg                                                                      | 200 g                                            |
| 420  | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance - Class I and Coarser (Readability: 0.0001 mg)                                                  | Using E1 Class Weights as per OIML R 76-1                                                                                            | 0 to 6.1 g                                                                        | 0.01 mg                                          |
| 421  | MECHANICAL-WEIGHTS                    | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1 | 1 g                                                                               | 0.003 mg                                         |
| 422  | MECHANICAL-WEIGHTS                    | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1 | 1 mg                                                                              | 0.001 mg                                         |



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|------|--------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 423  | MECHANICAL-WEIGHTS | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1  | 10 g                                                                              | 0.0062 mg                                        |
| 424  | MECHANICAL-WEIGHTS | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1 | 10 mg                                                                             | 0.001 mg                                         |
| 425  | MECHANICAL-WEIGHTS | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1 | 100 g                                                                             | 0.017 mg                                         |



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|------|--------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 426  | MECHANICAL-WEIGHTS | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1 | 100 mg                                                                            | 0.0012 mg                                        |
| 427  | MECHANICAL-WEIGHTS | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1 | 2 g                                                                               | 0.004 mg                                         |
| 428  | MECHANICAL-WEIGHTS | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1 | 2 mg                                                                              | 0.001 mg                                         |



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|------|--------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 429  | MECHANICAL-WEIGHTS | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability : 0.01 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1 | 20 g                                                                              | 0.008 mg                                         |
| 430  | MECHANICAL-WEIGHTS | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1 | 20 mg                                                                             | 0.001 mg                                         |
| 431  | MECHANICAL-WEIGHTS | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1 | 200 g                                                                             | 0.03 mg                                          |



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|------|--------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| 432  | MECHANICAL-WEIGHTS | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1 | 200 mg                                                                            | 0.0013 mg                                              |
| 433  | MECHANICAL-WEIGHTS | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1 | 5 g                                                                               | 0.005 mg                                               |
| 434  | MECHANICAL-WEIGHTS | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1 | 5 mg                                                                              | 0.001 mg                                               |



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|------|--------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| 435  | MECHANICAL-WEIGHTS | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.01 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1  | 50 g                                                                              | 0.01 mg                                                |
| 436  | MECHANICAL-WEIGHTS | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1 | 50 mg                                                                             | 0.001 mg                                               |
| 437  | MECHANICAL-WEIGHTS | Accuracy class E1 & coarser                                                                                                 | Using E1 Class Weight and Electronic Weighing Balance (Readability: 0.001 mg) by Subdivision Method (ABBA Cycle) as per OIML R 111-1 | 500 mg                                                                            | 0.0021 mg                                              |



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|------|--------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 438  | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser                                                                                                 | Using F1 Class Weight and Electronic Weighing Balance (Readability: 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1 | 1 kg                                                                              | 4.9 mg                                           |
| 439  | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser                                                                                                 | Using F1 Class Weight and Electronic Weighing Balance (Readability: 100 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1  | 20 kg                                                                             | 81.95 mg                                         |
| 440  | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser                                                                                                 | Using F1 Class Weight and Electronic Weighing Balance (Readability: 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1  | 5 kg                                                                              | 26 mg                                            |



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|------|--------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 441  | MECHANICAL-WEIGHTS | Accuracy class F2 & coarser                                                                                                 | Using F1 Class Weight and Electronic Weighing Balance (Readability: 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1 | 500 g                                                                             | 3 mg                                             |
| 442  | MECHANICAL-WEIGHTS | Accuracy class M1 & coarser                                                                                                 | Using F1 Class Weight and Electronic Weighing Balance (Readability: 100 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1  | 10 kg                                                                             | 81.7 mg                                          |
| 443  | MECHANICAL-WEIGHTS | Accuracy class M1& coarser                                                                                                  | Using F1 Class Weight and Electronic Weighing Balance (Readability: 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1  | 2 kg                                                                              | 12.32 mg                                         |



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** MRCREST INSTRUMENTS LLP, NO. 24, 2ND STREET, SRI VENKATESWARA NAGAR,  
CHENNAI, TAMIL NADU, INDIA

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

**Certificate Number** NABLC0926TN04989

**Validity** 25/07/2026 to 24/07/2030

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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)(±) |
|------|--------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 444  | OPTICAL-EQUIPMENTS | Optical Power Attenuation @ 1310 nm and 1550 nm                                                                             | Using Optical power Meter, Optical Attenuator & Optical Source by Direct Method / Comparison Method | 5 dB to 30 dB                                                                     | 3.2 %                                            |
| 445  | OPTICAL-EQUIPMENTS | Optical Power Level @ 1310 nm and 1550 nm                                                                                   | Using Optical Power Meter, Optical Attenuator & Optical Source by Direct Method / Comparison Method | (-) 10 dBm to (-) 40 dBm                                                          | 3.2 %                                            |
| 446  | OPTICAL-EQUIPMENTS | Optical Power Level @ 850 nm and 1300 nm                                                                                    | Using Optical Power Meter, Optical Attenuator & Optical Source by Direct Method / Comparison Method | (-) 10 dBm to (-) 20 dBm                                                          | 3.8 %                                            |
| 447  | OPTICAL-OPTICAL    | Lux Meter / Light Meter                                                                                                     | Using Light Meter & Light Source by Comparison Method                                               | > 100 lux to 1000 lux                                                             | 7 %                                              |
| 448  | OPTICAL-OPTICAL    | Lux Meter / Light Meter                                                                                                     | Using Light Meter & Light Source by Comparison Method                                               | > 1000 lux to 40000 lux                                                           | 7 %                                              |
| 449  | OPTICAL-OPTICAL    | Lux Meter / Light Meter                                                                                                     | Using Light Meter & Light Source by Comparison Method                                               | > 40000 lux to 42000 lux                                                          | 10 %                                             |
| 450  | OPTICAL-OPTICAL    | Lux Meter / Light Meter                                                                                                     | Using Light Meter & Light Source by Comparison Method                                               | 1 lux to 100 lux                                                                  | 13 %                                             |



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| 451  | THERMAL-SPECIFIC HEAT & HUMIDITY | Digital / Analog Thermo Hygrometer, Hygrometer, Hygrograph, Humidity Sensor with Indicator, Data Logger (inbuilt Sensor), Temperature & Humidity Transmitter | Using Digital Thermohygrometer, Digital Multimeter & Humidity Chamber by Comparison Method | 15 %rh to 95 %rh @ 20 °C to 40 °C                                                 | 1.51 %rh                                               |
| 452  | THERMAL-SPECIFIC HEAT & HUMIDITY | Digital / Analog Thermo Hygrometer, Hygrometer, Hygrograph, Humidity Sensor with Indicator, Data Logger (inbuilt Sensor), Temperature & Humidity Transmitter | Using Digital Thermohygrometer, Digital Multimeter & Humidity Chamber by Comparison Method | 10 %rh to 95 %rh @ 25 °C                                                          | 0.85 %rh                                               |
| 453  | THERMAL-SPECIFIC HEAT & HUMIDITY | Digital / Analog Thermo Hygrometers (temperature only), Hygrographs(temperature only), Data Logger (built in sensor), Humidity (built-in sensor)             | Using Thermo-Hygrometer with temperature Chamber by Comparison Method                      | 5 °C to 60 °C @ 50 %rh                                                            | 0.4 °C                                                 |



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| 454  | THERMAL-SPECIFIC HEAT & HUMIDITY | Environmental Chamber, Humidity Chamber - Multi-Position                                                                    | Using Temperature Humidity Datalogger (Minimum 9 sensors) by Comparison Method           | 30 %rh to 95 %rh @ 20 °C to 50 °C                                                 | 2.84 %rh                                         |
| 455  | THERMAL-SPECIFIC HEAT & HUMIDITY | Humidity Sensor of Indicator / Controller / Recorder of Chamber / Environmental Chamber - single Position                   | Using Digital Thermohygrometer by Comparison Method                                      | 15 %rh to 95 %rh @ 20 °C to 50 °C                                                 | 0.9 %rh                                          |
| 456  | THERMAL-TEMPERATURE              | Infrared / Non-Contact Thermometer (Non Medical Purpose)                                                                    | Using Non-Contact Pyrometer (Emissivity @ 0.95) & Black Body Source by Comparison Method | 50 °C to 500 °C                                                                   | 2.66 °C                                          |
| 457  | THERMAL-TEMPERATURE              | Liquid in Glass Thermometer                                                                                                 | Using SSPRT Sensor with Digital Multimeter & Ultra Low Liquid Bath by Comparison Method  | (-) 80 °C to 30 °C                                                                | 0.6 °C                                           |
| 458  | THERMAL-TEMPERATURE              | Liquid in Glass Thermometer                                                                                                 | Using SSPRT Sensor with Digital Multimeter & Oil bath by Comparison Method               | 30 °C to 250 °C                                                                   | 0.72 °C                                          |



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| 459  | THERMAL-TEMPERATURE | RTD / Thermocouple with or without Indicator, Temperature Data logger with sensor, Temperature Gauge, Temperature Transmitter with sensor, Temperature switch | Using SSPRT Sensor with Digital Multimeter, MFC & Dry block Calibrator by Comparison Method | 250 °C to 650 °C                                                                  | 0.13 °C                                                |
| 460  | THERMAL-TEMPERATURE | RTD / Thermocouple with or without Indicator, Temperature Datalogger with sensor, Temperature Gauge, Temperature Transmitter with sensor, Temperature switch  | Using SSPRT Sensor with Digital Multimeter, MFC & Liquid Nitrogen Bath by Comparison Method | (-) 196 °C                                                                        | 0.15 °C                                                |
| 461  | THERMAL-TEMPERATURE | RTD / Thermocouple with or without Indicator, Thermistor with indicator, Temperature Recorder / Datalogger / Gauge (Inbuilt Sensor), Switch, Transmitter      | Using SSPRT Sensor with Digital Multimeter & Ultra Low Liquid Bath by Comparison Method     | (-) 80 °C to 30 °C                                                                | 0.15 °C                                                |



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| 462  | THERMAL-TEMPERATURE | Temperature Indicator of Bath / Dry Block Calibrator - Single Position                                                      | Using R-Type Thermocouple with Indicator by Comparison Method   | 650 °C to 1200 °C                                                                 | 1.96 °C                                          |
| 463  | THERMAL-TEMPERATURE | Temperature Indicator sensor of Bath / Dry Block Calibrator - Single Position                                               | Using SSPRT Sensor with Digital Multimeter by Comparison Method | (-) 80 °C to 200 °C                                                               | 0.17 °C                                          |
| 464  | THERMAL-TEMPERATURE | Temperature Indicator Sensor of Bath / Dry Block Calibrator - Single Position                                               | Using SSPRT Sensor with Digital Multimeter by Comparison Method | > 200 °C to 650 °C                                                                | 0.16 °C                                          |
| 465  | THERMAL-TEMPERATURE | Temperature Indicator with Sensor of Black Body Source - Single Position                                                    | Using Pyrometer (Emissivity @ 0.95) by Comparison Method        | 50 °C to 500 °C                                                                   | 2.66 °C                                          |
| 466  | THERMAL-TEMPERATURE | Temperature Indicator with sensor of Oven / Furnace / Bath / Environmental Chamber - Single Position                        | Using R-Type Thermocouple with Indicator by Comparison Method   | 400 °C to 1200 °C                                                                 | 1.65 °C                                          |



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| 467  | THERMAL-TEMPERATURE | Thermocouple with or without Indicator, Temperature Recorder / Datalogger / Gauge (Inbuilt Sensor), Switch, Transmitter     | Using R-Type Thermocouple with indicator, MFC & Dry bath calibrator by Comparison Method | 650 °C to 1200 °C                                                                 | 1.85 °C                                          |



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| Site Facility |                                                           |                                                                                                                             |                                                                                    |                                                                                   |                                                  |
| 1             | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Capacitance @ 1 kHz                                                                                                      | Using LCR Meter by Direct Method                                                   | 100 pF to 100 µF                                                                  | 0.06 %                                           |
| 2             | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Capacitance @ 100 Hz                                                                                                     | Using LCR Meter by Direct Method                                                   | 1000 nF to 10 mF                                                                  | 0.077 % to 0.12 %                                |
| 3             | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 1 kHz to 10 kHz                                                                                                | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 mA to 1 A                                                                      | 0.07 % to 0.12 %                                 |
| 4             | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mA to 10 mA                                                                     | 0.54 % to 1.21 %                                 |



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| 5    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 mA to 100 mA                                                                   | 1.21 % to 0.23 %                                 |
| 6    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 µA to 1 mA                                                                    | 1.22 % to 0.54 %                                 |
| 7    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 30 µA to 100 µA                                                                   | 0.89 % to 1.22 %                                 |
| 8    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 40 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 A to 3 A                                                                        | 0.17 % to 0.36 %                                 |
| 9    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 40 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 3 A to 10 A                                                                       | 0.36 % to 0.4 %                                  |



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| 10   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 40 Hz to 1 kHz                                                                                                 | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mA to 30 A                                                                      | 0.04 % to 0.07 %                                 |
| 11   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 40 Hz to 1 kHz                                                                                                 | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 µA to 1 mA                                                                     | 0.28 % to 0.04 %                                 |
| 12   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 40 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 mA to 500 mA                                                                  | 0.26 %                                           |
| 13   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 40 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 500 mA to 1 A                                                                     | 0.26 % to 0.17 %                                 |
| 14   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz                                                                                                          | Using Power Quality Analyzer with coil Direct Method                               | 1 A to 1500 A                                                                     | 0.26 %                                           |



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| 15   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC High Voltage @ 50 Hz                                                                                                     | Using High Voltage Probe with Digital Multimeter and HV Source by Direct / Comparison Method | 1 kV to 60 kV                                                                     | 4.35 %                                           |
| 16   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC High Voltage @ 50 Hz                                                                                                     | Using High Voltage Probe with Digital Multimeter and HV Source by Direct / Comparison Method | 1 kV to 28 kV                                                                     | 4.35 % to 4.68 %                                 |
| 17   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Resistance @ 1 kHz                                                                                                       | Using LCR Meter with Resistance Box by Direct / Substitution Method                          | 1 ohm to 10 kohm                                                                  | 0.065 %                                          |
| 18   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Resistance @ 1 kHz                                                                                                       | Using LCR Meter by Direct Method                                                             | 1 ohm to 10 kohm                                                                  | 0.06 %                                           |
| 19   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 1 kHz to 10 kHz                                                                                                | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method           | 200 V to 1000 V                                                                   | 0.009 % to 0.012 %                               |



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| 20   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 1 kHz to 100 kHz                                                                                               | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mV to 100 mV                                                                    | 0.17 % to 0.035 %                                |
| 21   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 1 kHz to 100 kHz                                                                                               | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 V to 200 V                                                                     | 0.023 % to 0.03 %                                |
| 22   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 1 kHz to 100 kHz                                                                                               | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 mV to 10 V                                                                    | 0.035 % to 0.023 %                               |
| 23   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 V to 10 V                                                                       | 0.21 % to 0.13 %                                 |
| 24   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 V to 100 V                                                                     | 0.13 % to 0.1 %                                  |



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| 25   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 mV to 1 V                                                                     | 0.12 % to 0.21 %                                 |
| 26   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 20 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mV to 100 mV                                                                    | 1.92 % to 0.12 %                                 |
| 27   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 20 Hz to 1 kHz                                                                                                 | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 V to 1000 V                                                                    | 0.016 % to 0.018 %                               |
| 28   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 20 Hz to 1 kHz                                                                                                 | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 mV to 10 V                                                                    | 0.017 % to 0.016 %                               |
| 29   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 20Hz to 1 kHz                                                                                                  | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mV to 100 mV                                                                    | 0.25 % to 0.017 %                                |



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| 30   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 50 Hz to 1 kHz                                                                                                 | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 V to 1000 V                                                                   | 0.1 % to 0.097 %                                 |
| 31   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Capacitance @ 100 Hz                                                                                                        | Using LCR Meter with Capacitance Box by Direct / Substitution Method               | 1 mF to 10 mF                                                                     | 0.07 %                                           |
| 32   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Capacitance @ 1 kHz                                                                                                         | Using LCR Meter with Capacitance Box by Direct / Substitution Method               | 1 pF to 100 µF                                                                    | 0.068 %                                          |
| 33   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Inductance @1 kHz                                                                                                           | Using LCR Meter by Direct Method                                                   | 100 µH to 10 H                                                                    | 0.12 % to 0.15 %                                 |
| 34   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Power Factor @ 50 Hz (10 V to 600 V, 0.01 A to 10 A)                                                                        | Using Three Phase Calibration Meter and Source by Direct / Comparison Method       | 0.2 (Lead / Lag) PF to UPF                                                        | 0.002 PF                                         |



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|------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 35   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Single Phase AC Active Power @ 50 Hz (10 V to 600 V, 0.01 A to 10 A, 0.5 Lead / Lag to UPF)                                  | Using Three Phase Calibration Meter and Source by Direct / Comparison Method | 1 W to 4.5 kW                                                                     | 0.27 %                                           |
| 36   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Single Phase Active Energy @ 50 Hz (100 V to 600 V, 0.5 A to 20 A, 0.5 Lead / Lag to UPF)                                    | Using Three Phase Calibration Meter and Source by Direct / Comparison Method | 1 Wh to 2 kWh                                                                     | 0.15 % to 0.11 %                                 |
| 37   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Three Phase (4 Wire) Active Energy @ 50 Hz (63.5 V to 240 V, 0.01 A to 20 A, 0.5 Lead / Lag to UPF)                          | Using Three Phase Calibration Meter and Source by Direct / Comparison Method | 100 mWh to 18 kWh                                                                 | 0.3 %                                            |
| 38   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Three Phase (4 Wire) Active Power @ 50 Hz (63.5 V to 240 V, 0.01 A to 20 A, 0.5 Lead / Lag)                                  | Using Three Phase Calibration Meter and Source by Direct / Comparison Method | 300 mW to 9 kW                                                                    | 0.27 %                                           |
| 39   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Three Phase (4 Wire) Active Power @ 50 Hz (63.5 V to 240 V, 0.01 A to 20 A, UPF)                                             | Using Three Phase Calibration Meter and Source by Direct / Comparison Method | 600 mW to 18 kW                                                                   | 0.27 %                                           |



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| 40   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 45 Hz to 1 kHz                                                                                                 | Using Multi Product Calibrator by Direct Method | 2.99 A to 10 A                                                                    | 0.21 % to 0.12 %                                 |
| 41   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 45 Hz to 10 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 1 A to 2.99 A                                                                     | 0.25 % to 0.21 %                                 |
| 42   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 45 Hz to 10 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 3.2 mA to 32 mA                                                                   | 0.24 % to 0.11 %                                 |
| 43   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 45 Hz to 10 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 30 µA to 3.2 mA                                                                   | 0.21 % to 0.24 %                                 |
| 44   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 45 Hz to 10 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 32 mA to 320 mA                                                                   | 0.11 % to 0.21 %                                 |
| 45   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 45 Hz to 10 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 320 mA to 1 A                                                                     | 0.21 % to 0.25 %                                 |



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| 46   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz                                                                                                          | Using Multi Product Calibrator with Current Coil by Direct Method | 10 A to 550 A                                                                     | 0.035 % to 0.4 %                                 |
| 47   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Current @ 50 Hz                                                                                                          | Using Multi Product Calibrator with Current Coil by Direct Method | 500 A to 1000 A                                                                   | 0.4 %                                            |
| 48   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 40 Hz to 1 kHz                                                                                                 | Using Multi Product Calibrator by Direct Method                   | 1 mV to 32 mV                                                                     | 0.53 %                                           |
| 49   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 45 Hz to 1 kHz                                                                                                 | Using Multi Product Calibrator by Direct Method                   | 32 V to 320 V                                                                     | 0.066 % to 0.059 %                               |
| 50   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 45 Hz to 1 kHz                                                                                                 | Using Multi Product Calibrator by Direct Method                   | 320 V to 990 V                                                                    | 0.059 % to 0.062 %                               |
| 51   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 45 Hz to 1 kHz                                                                                                 | Using Multi Product Calibrator by Direct Method                   | 990 V to 1000 V                                                                   | 0.062 %                                          |



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| 52   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 45 Hz to 20 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 3.2 V to 32 V                                                                     | 0.06 % to 0.09 %                                 |
| 53   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 45 Hz to 20 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 32 mV to 320 mV                                                                   | 0.24 % to 0.06 %                                 |
| 54   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 45 Hz to 20 kHz                                                                                                | Using Multi Product Calibrator by Direct Method | 320 mV to 3.2 V                                                                   | 0.06 %                                           |
| 55   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz                                                                                                        | Using Multi Product Calibrator by Direct Method | 1.0999 µF to 3.2999 µF                                                            | 0.5 % to 0.39 %                                  |
| 56   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz                                                                                                         | Using Multi Product Calibrator by Direct Method | 0.5 nF to 1.0999 nF                                                               | 3.8 % to 2.06 %                                  |
| 57   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz                                                                                                         | Using Multi Product Calibrator by Direct Method | 10.999 nF to 32.999 nF                                                            | 0.61 % to 0.78 %                                 |



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| 58   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz                                                                                                         | Using Multi Product Calibrator by Direct Method | 110 nF to 329.99 nF                                                               | 0.47 % to 0.39 %                                 |
| 59   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz                                                                                                         | Using Multi Product Calibrator by Direct Method | 3.2999 nF to 10.999 nF                                                            | 1.12 % to 0.61 %                                 |
| 60   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz                                                                                                         | Using Multi Product Calibrator by Direct Method | 1.0999 nF to 3.2999 nF                                                            | 2.06 % to 1.12 %                                 |
| 61   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 1 kHz                                                                                                         | Using Multi Product Calibrator by Direct Method | 32.999 nF to 110 nF                                                               | 0.78 % to 0.47 %                                 |
| 62   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz                                                                                                        | Using Multi Product Calibrator by Direct Method | 10.999 µF to 32.999 µF                                                            | 0.39 % to 0.67 %                                 |
| 63   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz                                                                                                        | Using Multi Product Calibrator by Direct Method | 3.2999 µF to 10.999 µF                                                            | 0.39 %                                           |



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| 64   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz                                                                                                        | Using Multi Product Calibrator by Direct Method | 32.999 $\mu$ F to 109.99 $\mu$ F                                                  | 0.67 % to 0.77 %                                 |
| 65   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Capacitance @ 100 Hz                                                                                                        | Using Multi Product Calibrator by Direct Method | 329.99 nF to 1.0999 $\mu$ F                                                       | 0.39 % to 0.5 %                                  |
| 66   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Inductance @ 1 kHz                                                                                                          | Using Standard Inductance Box by Direct Method  | 10 $\mu$ H to 10 H                                                                | 0.76 % to 0.5 %                                  |
| 67   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Power Factor @ 50 Hz (10 V to 600 V, 0.2 A to 10 A)                                                                         | Using Multi Product Calibrator by Direct Method | 0.2 (Lag) PF to UPF                                                               | 0.003 PF                                         |
| 68   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Power Factor @ 50 Hz (10 V to 600 V, 0.2 A to 10 A)                                                                         | Using Multi Product Calibrator by Direct Method | 0.2 (Lead) PF to UPF                                                              | 0.003 PF                                         |
| 69   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | Single Phase AC Active Power @ 50 Hz (10 V to 1000 V, 0.01 A to 11 A, UPF)                                                  | Using Multi Product Calibrator by Direct Method | 1 W to 6 kW                                                                       | 0.34 % to 0.12 %                                 |



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| 70   | ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source) | Single Phase AC Active Power @ 50 Hz (10 V to 600 V, 0.2 A to 10 A, 0.5 lag / lead to UPF)                                  | Using Multi Product Calibrator by Direct Method                                    | 1 W to 3 kW                                                                       | 1.14 % to 1.13 %                                 |
| 71   | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)               | Capacitance                                                                                                                 | Using 6½ Digit Multimeter by Direct Method                                         | 1 nF to 10 µF                                                                     | 1.05 % to 1.2 %                                  |
| 72   | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)               | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 mA to 100 mA                                                                   | 0.081 % to 0.063 %                               |
| 73   | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)               | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 3 A to 10 A                                                                       | 0.14 % to 0.18 %                                 |
| 74   | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)               | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 A to 3 A                                                                        | 0.082 % to 0.14 %                                |
| 75   | ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)               | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mA to 10 mA                                                                     | 0.064 % to 0.081 %                               |



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| 76   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 µA to 1 mA                                                                    | 0.089 % to 0.064 %                               |
| 77   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 400 mA to 1 A                                                                     | 0.066 % to 0.082 %                               |
| 78   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 6½ Digit Multimeter with shunt DC Current source by V/I Method               | 0.1 A to 250 A                                                                    | 0.05 %                                           |
| 79   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 µA to 100 µA                                                                    | 0.062 % to 0.011 %                               |
| 80   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 µA to 100 µA                                                                   | 0.4 % to 0.9 %                                   |
| 81   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 µA to 20 A                                                                    | 0.011 % to 0.028 %                               |



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| 82   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method  | 100 mA to 500 mA                                                                  | 0.063 % to 0.066 %                               |
| 83   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Current                                                                                                                  | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method  | 20 A to 30 A                                                                      | 0.028 % to 0.016 %                               |
| 84   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC High Voltage                                                                                                             | Using High voltage Probe with Digital multimeter and HV Source by Comparison Method | 5 kV to 40 kV                                                                     | 4.62 % to 4.46 %                                 |
| 85   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC High Voltage                                                                                                             | Using High voltage Probe with Digital multimeter and HV Source by Comparison Method | 1 kV to 5 kV                                                                      | 4.83 % to 4.62 %                                 |
| 86   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Power (10 V to 1000 V, 0.1 A to 10 A)                                                                                    | Using Three Phase Calibration Meter and Source By Direct / Comparison Method        | 1 W to 10 kW                                                                      | 0.23 %                                           |
| 87   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Power (10V to 1000 V, 0.01 A to 20 A)                                                                                    | Using Three Phase Calibration Meter and Source By Direct / Comparison Method        | 100 mW to 20 kW                                                                   | 8.8 % to 0.18 %                                  |



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| 88   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (2 wire)                                                                                                      | Using 8½ Digit Multimeter by Direct Method                         | 1 Gohm to 1 Tohm                                                                  | 1.1 % to 1.53 %                                  |
| 89   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (2 wire)                                                                                                      | Using 8½ Digit Multimeter by Direct Method                         | 1 Mohm to 100 Mohm                                                                | 0.0018 % to 0.039 %                              |
| 90   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (2 wire)                                                                                                      | Using 8½ Digit Multimeter by Direct Method                         | 10 Gohm to 20 Gohm                                                                | 0.35 % to 0.44 %                                 |
| 91   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (2 wire)                                                                                                      | Using 8½ Digit Multimeter by Direct Method                         | 100 Mohm to 10 Gohm                                                               | 0.35 % to 0.18 %                                 |
| 92   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (2 wire) @ Up to 1000 V                                                                                       | Using 8½ Digit Multimeter & Multi Product Calibrator by V/I Method | 100 kohm to 1 Gohm                                                                | 0.004 % to 0.06 %                                |
| 93   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (4 wire)                                                                                                      | Using 8½ Digit Multimeter by Direct Method                         | 1 ohm to 1 kohm                                                                   | 0.00065 % to 0.0008 %                            |



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| 94   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (4 wire)                                                                                                      | Using 8½ Digit Multimeter by Direct Method                                         | 1 kohm to 100 Mohm                                                                | 0.0008 % to 0.0059 %                             |
| 95   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (4 wire)                                                                                                      | Using 8½ Digit Multimeter by Direct Method                                         | 1 mohm to 1 ohm                                                                   | 0.007 % to 0.00065 %                             |
| 96   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (4 wire)                                                                                                      | Using 8½ Digit Multimeter & Multi Product Calibrator by V/I Method                 | 1 mohm to 1 ohm                                                                   | 0.07 % to 0.06 %                                 |
| 97   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (4 wire)                                                                                                      | Using 8½ Digit Multimeter & Multi Product Calibrator by V/I Method                 | 20 µohm to 1 mohm                                                                 | 0.033 % to 0.07 %                                |
| 98   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mV to 100 mV                                                                    | 0.051 % to 0.0091 %                              |
| 99   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 V to 10 V                                                                       | 0.0039 % to 0.0035 %                             |



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| 100  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 V to 100 V                                                                     | 0.0035 % to 0.0053 %                             |
| 101  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 mV to 1 V                                                                     | 0.0091 % to 0.0039 %                             |
| 102  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 6½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 100 V to 1000 V                                                                   | 0.0053 % to 0.0061 %                             |
| 103  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 1 mV to 10 V                                                                      | 0.041 % to 0.0005 %                              |
| 104  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 µV to 1 mV                                                                     | 0.25 % to 0.041 %                                |
| 105  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 8½ Digit Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 V to 1000 V                                                                    | 0.0005 % to 0.0009 %                             |



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| 106  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | High Voltage                                                                                                                | Using High Voltage Probe with Digital Multimeter and HV Source Direct / Comparison Method | 1 kV to 60 kV                                                                     | 4.35 %                                           |
| 107  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Inductance @ 1 kHz                                                                                                          | Using LCR Meter with Capacitance Box by Direct / Substitution Method                      | 100 µH to 10 H                                                                    | 0.073 %                                          |
| 108  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (2 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method                                                | 100 Mohm to 1 Gohm                                                                | 0.95 % to 2.32 %                                 |
| 109  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method                                                | 10 Mohm to 100 Mohm                                                               | 0.049 % to 0.95 %                                |
| 110  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method                                                | 10 ohm to 100 ohm                                                                 | 0.046 % to 0.016 %                               |
| 111  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method                                                | 1 kohm to 10 kohm                                                                 | 0.012 %                                          |



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| 112  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method      | 1 Mohm to 10 Mohm                                                                 | 0.013 % to 0.049 %                               |
| 113  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method      | 1 ohm to 10 ohm                                                                   | 0.36 % to 0.046 %                                |
| 114  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method      | 10 kohm to 100 kohm                                                               | 0.012 %                                          |
| 115  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method      | 100 kohm to 1 Mohm                                                                | 0.012 % to 0.013 %                               |
| 116  | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance (4 wire)                                                                                                         | Using 6½ Digit Multimeter by Direct Method      | 100 ohm to 1 kohm                                                                 | 0.016 % to 0.012 %                               |
| 117  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)  | DC Current                                                                                                                  | Using Multi Product Calibrator by Direct Method | 1 A to 2.99 A                                                                     | 0.053 % to 0.046 %                               |



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| 118  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current                                                                                                                   | Using Multi Product Calibrator by Direct Method                   | 2.99 A to 10 A                                                                    | 0.046 % to 0.077 %                               |
| 119  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current                                                                                                                   | Using Multi Product Calibrator by Direct Method                   | 3.2 mA to 32 mA                                                                   | 0.017 % to 0.014 %                               |
| 120  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current                                                                                                                   | Using Multi Product Calibrator by Direct Method                   | 32 mA to 320 mA                                                                   | 0.014 % to 0.012 %                               |
| 121  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current                                                                                                                   | Using Multi Product Calibrator by Direct Method                   | 320 mA to 1 A                                                                     | 0.012 % to 0.053 %                               |
| 122  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current                                                                                                                   | Using Multi Product Calibrator by Direct Method                   | 1 µA to 3.2 mA                                                                    | 0.87 % to 0.017 %                                |
| 123  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current                                                                                                                   | Using Multi Product Calibrator with Current Coil by Direct Method | 10 A to 550 A                                                                     | 0.035 % to 0.6 %                                 |



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| 124  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current                                                                                                                  | Using Multi Product Calibrator with Current Coil by Direct Method | 500 A to 1000 A                                                                   | 0.6 %                                            |
| 125  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Resistance (4 wire)                                                                                                      | Using Standard Resistance Box by Direct Method                    | 100 $\mu$ ohm to 1 mohm                                                           | 0.06 % to 0.08 %                                 |
| 126  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage                                                                                                                  | Using Multi Product Calibrator by Direct Method                   | 1 mV to 330 mV                                                                    | 0.12 % to 0.008 %                                |
| 127  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage                                                                                                                  | Using Multi Product Calibrator by Direct Method                   | 3.3 V to 1000 V                                                                   | 0.006 %                                          |
| 128  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage                                                                                                                  | Using Multi Product Calibrator by Direct Method                   | 330 mV to 3.3 V                                                                   | 0.008 % to 0.006 %                               |
| 129  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method                   | 32.9 Mohm to 109.9 Mohm                                                           | 0.13 % to 0.69 %                                 |



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| 130  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 329.9 Mohm to 1100 Mohm                                                           | 0.62 % to 1.78 %                                 |
| 131  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 1 Mohm to 3.2 Mohm                                                                | 0.023 % to 0.021 %                               |
| 132  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 10.9 Mohm to 32.9 Mohm                                                            | 0.07 % to 0.13 %                                 |
| 133  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 109.9 ohm to 329.9 ohm                                                            | 0.02 % to 0.018 %                                |
| 134  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 3.2 Mohm to 10.9 Mohm                                                             | 0.021 % to 0.07 %                                |
| 135  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 329.9 kohm to 1 Mohm                                                              | 0.018 % to 0.023 %                               |



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| 136  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire) @ 5 kV                                                                                                  | Using Standard Resistance Box by Direct Method  | 1 Gohm                                                                            | 2.4 %                                            |
| 137  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire) @ 5 kV                                                                                                  | Using Standard Resistance Box by Direct Method  | 1 Tohm                                                                            | 5.9 %                                            |
| 138  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire) @ 5 kV                                                                                                  | Using Standard Resistance Box by Direct Method  | 10 Gohm                                                                           | 2.5 %                                            |
| 139  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (2 wire) @ 5 kV                                                                                                  | Using Standard Resistance Box by Direct Method  | 100 Gohm                                                                          | 2.5 %                                            |
| 140  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using Standard Resistance Box by Direct Method  | 10 Mohm                                                                           | 1.35 %                                           |
| 141  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 1 kohm to 3.2 kohm                                                                | 0.014 % to 0.02 %                                |



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| 142  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 1 ohm to 10.9 ohm                                                                 | 1.17 % to 0.12 %                                 |
| 143  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using MPC by Direct Method                      | 3.2 kohm to 10.9 kohm                                                             | 0.02 % to 0.01 %                                 |
| 144  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 32.9 kohm to 109.9 kohm                                                           | 0.022 % to 0.015 %                               |
| 145  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 32.9 ohm to 109.9 ohm                                                             | 0.06 % to 0.02 %                                 |
| 146  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 329.9 ohm to 1 kohm                                                               | 0.01 % to 0.014 %                                |
| 147  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method | 10.9 kohm to 32.9 kohm                                                            | 0.01 % to 0.022 %                                |



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| 148  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)        | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method                              | 10.9 ohm to 32.9 ohm                                                              | 0.12 % to 0.06 %                                 |
| 149  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)        | Resistance (4 wire)                                                                                                         | Using Standard Resistance Box by Direct Method                               | 100 Mohm                                                                          | 1.3 %                                            |
| 150  | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)        | Resistance (4 wire)                                                                                                         | Using Multi Product Calibrator by Direct Method                              | 109.9 kohm to 300 kohm                                                            | 0.015 % to 0.018%                                |
| 151  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Gauss Meter                                                                                                                 | Using Reference Gauss Meter & Reference Magnet by Direct / Comparison Method | 75 Gauss to 400 Gauss                                                             | 8.5 %                                            |
| 152  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)  | Conductivity Meter (20 ohm to10 Mohm)                                                                                       | Using Decade Resistance Box by Simulation Method                             | 0.1 $\mu$ S to 200 mS                                                             | 1.2 % to 1.61 %                                  |
| 153  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)  | Oscilloscope - AC Amplitude @ 10 Hz to 1 kHz                                                                                | Using Multi Product Calibrator by Direct Method                              | 5 mV to 105 V                                                                     | 0.29 %                                           |



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| 154  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Oscilloscope - BandWidth                                                                                                    | Using Signal Generator by Direct Method             | 300 MHz to 3 GHz                                                                  | 5 %                                              |
| 155  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Oscilloscope - BandWidth                                                                                                    | Using Multi Product Calibrator by Direct Method     | 50 kHz to 300 MHz                                                                 | 2 % to 5 %                                       |
| 156  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Oscilloscope - DC Amplitude                                                                                                 | Using Multi Product Calibrator by Direct Method     | 5 mV to 33 V                                                                      | 0.29 %                                           |
| 157  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Oscilloscope - DC Amplitude                                                                                                 | Using Multi Product Calibrator by Direct Method     | (-) 5 mV to (-) 33 V                                                              | 0.06 %                                           |
| 158  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Oscilloscope - Time Base                                                                                                    | Using Multi Product Calibrator by Direct Method     | 50 ns to 5 s                                                                      | 0.028 % to 0.21 %                                |
| 159  | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | pH Meter (-) 400 mV to 400 mV                                                                                               | Using Multi Product Calibrator by Simulation Method | 0 pH to 14 pH                                                                     | 0.057 %                                          |



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| 160  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | Amplitude Modulation (CF: 10 MHz to 1.3 GHz) @ Mod Rate: 50 Hz to 10 kHz                                                    | Using Spectrum Analyzer by Direct Method                                                       | 10 % to 90 %                                                                      | 4.4 % to 4.1 %                                   |
| 161  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | Frequency Modulation (CF: 10 MHz to 1.3 GHz) @ Mod rate: 50 Hz to 10 kHz                                                    | Using Spectrum Analyzer and Signal generator by Direct / Comparison Method                     | 10 kHz to 100 kHz                                                                 | 2.94 %                                           |
| 162  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | Frequency                                                                                                                   | Using Frequency Counter/Counter power meter and signal generator by Direct / Comparison Method | 10 kHz to 40 GHz                                                                  | 0.0001 % to 0.000019 %                           |
| 163  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | Reflection Coefficient / Voltage Standing Wave Ratio @ 9 kHz to 26.5 GHz                                                    | Using Network Analyzer, Cal Kit with 50 ohm termination by Comparison Method                   | 0.024 rho to 0.33 rho                                                             | 2.58 % to 9 %                                    |



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| 164  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Microwave Power Loss, Attenuation, Insertion Loss, Return Loss, Coupling Loss, Decoupling Loss, Isolation Loss - Attenuation @ 30 kHz to 26.5 GHz | Using Network / Spectrum Analyser by Direct Method                       | 0 dB to 60 dB                                                                     | 0.63 dB                                                |
| 165  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Microwave Power Loss, Insertion Loss, Return Loss, Coupling Loss, Decoupling Loss, Isolation Loss - Attenuation @ 9 kHz to 3.2 GHz                | Using Network / Spectrum Analyser by Direct Method                       | 0 dB to 50 dB                                                                     | 0.49 dB                                                |
| 166  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Microwave Power Loss, Insertion Loss, Return Loss, Coupling Loss, Decoupling Loss, Isolation Loss @ 50 ohm - Attenuation (9 kHz to 26.5 GHz)      | Using Vector Network Analyzer by Direct Method                           | 1 ohm to 300 ohm                                                                  | 3.2 %                                                  |
| 167  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Power (30 kHz to 26.5 GHz)                                                                                                                        | Using Spectrum Analyzer & Signal Generator by Direct / Comparison Method | (-) 60 dBm to 10 dBm                                                              | 0.66 dB                                                |



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| 168  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Power (9 kHz to 3.2 GHz)                                                                                                 | Using Spectrum Analyzer & Signal Generator by Direct / Comparison Method         | (-) 60 dBm to 13 dBm                                                              | 0.54 dB                                          |
| 169  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Power @ 10 MHz to 18 GHz                                                                                                 | Using Power Meter with Sensor and Signal Generator by Direct / Comparison Method | (-) 10 dBm to 13 dBm                                                              | 0.42 dB to 0.4 dB                                |
| 170  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Power @ 10 MHz to 18 GHz                                                                                                 | Using Power Meter with Sensor and Signal Generator by Direct / Comparison Method | (-) 60 dBm to (-) 10 dBm                                                          | 0.52 dB to 0.45 dB                               |
| 171  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)  | Amplitude Modulation (CF: 100 kHz to 2.1 GHz) @ Mod rate: 50 Hz to 10 kHz                                                   | Using Signal Generator by Direct Method                                          | 10 % to 90 %                                                                      | 5.89 % to 2.43 %                                 |
| 172  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)  | Frequency Modulation (CF : 10 MHz to 2.1 GHz) @ Mod rate : 50 Hz to 10 kHz                                                  | Using Signal Generator by Direct Method                                          | 10 kHz to 100 kHz                                                                 | 2.99 %                                           |



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** MRCREST INSTRUMENTS LLP, NO. 24, 2ND STREET, SRI VENKATESWARA NAGAR,  
CHENNAI, TAMIL NADU, INDIA

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

**Certificate Number** NABLC0926TN04989

**Validity** 25/07/2026 to 24/07/2030

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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)(±) |
|------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 173  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Frequency                                                                                                                   | Using Signal Generator by Direct Method         | 3 GHz to 40 GHz                                                                   | 0.0001 % to 0.0019 %                             |
| 174  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Frequency                                                                                                                   | Using Signal Generator by Direct Method         | 9 kHz to 3 GHz                                                                    | 0.00058 % to 0.0001 %                            |
| 175  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | RF Power @ 3 GHz to 40 GHz                                                                                                  | Using Signal Generator by Direct Method         | (-) 60 dBm to 13 dBm                                                              | 0.46 dB                                          |
| 176  | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | RF Power @ 9 kHz to 3 GHz                                                                                                   | Using Signal Generator by Direct Method         | (-) 60 dBm to 13 dBm                                                              | 0.5 dB                                           |
| 177  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)        | T Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 250 °C to (-) 150 °C                                                          | 0.73 °C                                          |



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| <b>Accreditation Standard</b> | ISO/IEC 17025:2017                                                                                 |                        |            |
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| 178  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | T Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > (-) 150 °C to 0 °C                                                              | 0.28 °C                                          |
| 179  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | B Type Thermocouple                                                                                                         | Using 8½ Digit Multimeter by Direct Method      | 100 °C to 1800 °C                                                                 | 0.1 °C                                           |
| 180  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | B Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 600 °C to 1800 °C                                                                 | 0.45 °C                                          |
| 181  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | E Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 250 °C to (-) 100 °C                                                          | 0.58 °C                                          |
| 182  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | E Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > (-) 100 °C to 1000 °C                                                           | 0.19 °C                                          |
| 183  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | E Type Thermocouple                                                                                                         | Using 8½ Digit Multimeter by Direct Method      | (-) 250 °C to 1000 °C                                                             | 0.014 °C                                         |



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| 184  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | J Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 760 °C to 1000 °C                                                               | 0.2 °C                                                 |
| 185  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | J Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 210 °C to (-) 100 °C                                                          | 0.31 °C                                                |
| 186  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | J Type Thermocouple                                                                                                         | Using 8½ Digit Multimeter by Direct Method      | (-) 200 °C to 1200 °C                                                             | 0.017 °C                                               |
| 187  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | J Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > (-) 100 °C to 760 °C                                                            | 0.17 °C                                                |
| 188  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | K Type Thermocouple                                                                                                         | Using 8½ Digit Multimeter by Direct Method      | (-) 200 °C to 1350 °C                                                             | 0.038 °C                                               |
| 189  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | K Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 1000 °C to 1372 °C                                                              | 0.3 °C                                                 |



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| 190  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | K Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 200 °C to (-) 100 °C                                                          | 0.21 °C                                                |
| 191  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | K Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > (-) 100 °C to 1000 °C                                                           | 0.19 °C                                                |
| 192  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | N Type Thermocouple                                                                                                         | Using 8½ Digit DMM by Direct Method             | (-) 200 °C to 1300 °C                                                             | 0.051 °C                                               |
| 193  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | N Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > (-) 100 °C to 1300 °C                                                           | 0.21 °C                                                |
| 194  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | N Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 200 °C to (-) 100 °C                                                          | 0.46 °C                                                |
| 195  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | R Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 400 °C to 1767 °C                                                               | 0.38 °C                                                |



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| 196  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | R Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 0 °C to 250 °C                                                                    | 0.66 °C                                          |
| 197  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | R Type Thermocouple                                                                                                         | Using 8½ Digit DMM by Direct Method             | 0 °C to 1750 °C                                                                   | 0.09 °C                                          |
| 198  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | R Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 250 °C to 400 °C                                                                | 0.4 °C                                           |
| 199  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | RTD (PT 100)                                                                                                                | Using 6½ Digit Multimeter by Direct Method      | (-) 200 °C to 300 °C                                                              | 0.12 °C                                          |
| 200  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | RTD (PT 100)                                                                                                                | Using 6½ Digit Multimeter by Direct Method      | > 300 °C to 600 °C                                                                | 0.16 °C                                          |
| 201  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | RTD (PT 100)                                                                                                                | Using 6½ Digit Multimeter by Direct Method      | > 600 °C to 800 °C                                                                | 0.26 °C                                          |



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| 202  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | RTD (PT 100)                                                                                                                | Using 8½ Digit Multimeter by Direct Method      | (-) 200 °C to 800 °C                                                              | 0.04 °C                                          |
| 203  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | S Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 0 °C to 250 °C                                                                    | 0.54 °C                                          |
| 204  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | S Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 250 °C to 1767 °C                                                               | 0.43 °C                                          |
| 205  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | S Type Thermocouple                                                                                                         | Using 8½ Digit DMM by Direct Method             | 0 °C to 1750 °C                                                                   | 0.09 °C                                          |
| 206  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | T Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 0 °C to 400 °C                                                                    | 0.17 °C                                          |
| 207  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | T Type Thermocouple                                                                                                         | Using 8½ Digit Multimeter by Direct Method      | (-) 250 °C to 400 °C                                                              | 0.05 °C                                          |



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| 208  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | B Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 100 °C to 600 °C                                                                  | 0.17 °C                                                |
| 209  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | B Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 600 °C to 1800 °C                                                               | 0.45 °C                                                |
| 210  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | B Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 100 °C to 1800 °C                                                                 | 0.17 °C                                                |
| 211  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | E Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 250 °C to (-) 100 °C                                                          | 0.58 °C                                                |
| 212  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | E Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > (-) 100 °C to 1000 °C                                                           | 0.19 °C                                                |
| 213  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | E Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 250 °C to 1000 °C                                                             | 0.1 °C                                                 |



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| 214  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | J Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 200 °C to 1200 °C                                                             | 0.1 °C                                                 |
| 215  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | J Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > (-) 100 °C to 760 °C                                                            | 0.17 °C                                                |
| 216  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | J Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 760 °C to 1050 °C                                                               | 0.2 °C                                                 |
| 217  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | J Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 200 °C to (-) 100 °C                                                          | 0.31 °C                                                |
| 218  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | K Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 200 °C to (-) 100 °C                                                          | 0.38 °C                                                |
| 219  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | K Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 1000 °C to 1350 °C                                                              | 0.3 °C                                                 |



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| 220  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | K Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | $> (-) 100^{\circ}\text{C}$ to $1000^{\circ}\text{C}$                             | $0.19^{\circ}\text{C}$                                 |
| 221  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | K Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | $(-) 200^{\circ}\text{C}$ to $1350^{\circ}\text{C}$                               | $0.11^{\circ}\text{C}$                                 |
| 222  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | N Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | $(-) 200^{\circ}\text{C}$ to $(-) 100^{\circ}\text{C}$                            | $0.46^{\circ}\text{C}$                                 |
| 223  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | N Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | $> (-) 100^{\circ}\text{C}$ to $1300^{\circ}\text{C}$                             | $0.21^{\circ}\text{C}$                                 |
| 224  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | N Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | $(-) 200^{\circ}\text{C}$ to $1300^{\circ}\text{C}$                               | $0.11^{\circ}\text{C}$                                 |
| 225  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | R Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | $0^{\circ}\text{C}$ to $1750^{\circ}\text{C}$                                     | $0.18^{\circ}\text{C}$                                 |



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| 226  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | R Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 250 °C to 400 °C                                                                | 0.4 °C                                                 |
| 227  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | R Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 400 °C to 1750 °C                                                               | 0.38 °C                                                |
| 228  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | R Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 0 °C to 250 °C                                                                    | 0.66 °C                                                |
| 229  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | RTD (PT 100)                                                                                                                | Using Multi Product Calibrator by Direct Method | (-) 200 °C to 100 °C                                                              | 0.058 °C                                               |
| 230  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | RTD (PT 100)                                                                                                                | Using Multi Product Calibrator by Direct Method | > 100 °C to 300 °C                                                                | 0.08 °C                                                |
| 231  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | RTD (PT 100)                                                                                                                | Using Multi Product Calibrator by Direct Method | > 300 °C to 630 °C                                                                | 0.11 °C                                                |



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| 232  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | RTD (PT 100)                                                                                                                | Using Multi Product Calibrator by Direct Method | > 630 °C to 800 °C                                                                | 0.15 °C                                                |
| 233  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | S Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 250 °C to 1767 °C                                                               | 0.43 °C                                                |
| 234  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | S Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 0 °C to 250 °C                                                                    | 0.54 °C                                                |
| 235  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | S Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | 0 °C to 1750 °C                                                                   | 0.2 °C                                                 |
| 236  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | T Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | (-) 200 °C to (-) 150 °C                                                          | 0.73 °C                                                |
| 237  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | T Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method | > 0 °C to 400 °C                                                                  | 0.17 °C                                                |



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| 238  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | T Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method                                       | > (-) 150 °C to 0 °C                                                              | 0.28 °C                                                |
| 239  | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | T Type Thermocouple                                                                                                         | Using Multi Product Calibrator by Direct Method                                       | (-) 200 °C to 400 °C                                                              | 0.036 °C                                               |
| 240  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)      | Frequency                                                                                                                   | Using Frequency Counter & Multiproduct Calibrator by Direct / Comparison Method       | 100 Hz to 10 kHz                                                                  | 0.001 %                                                |
| 241  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)      | Frequency                                                                                                                   | Using Frequency Counter & Digital Multimeter by Direct / Comparison Method            | 0.1 Hz to 100 Hz                                                                  | 0.016 % to 0.001 %                                     |
| 242  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)      | Frequency                                                                                                                   | Using 6.5 Digital Multimeter & Multi Product Calibrator by Direct / Comparison Method | 10 Hz to 40 Hz                                                                    | 0.16 % to 0.08 %                                       |
| 243  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)      | Frequency                                                                                                                   | Using 6.5 Digital Multimeter & Multi Product Calibrator by Direct / Comparison Method | 3 Hz to 5 Hz                                                                      | 0.22 %                                                 |



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| 244  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Frequency                                                                                                                   | Using 6.5 Digital Multimeter & Multi Product Calibrator by Direct / Comparison Method | 300 kHz to 1000 kHz                                                               | 0.022 %                                          |
| 245  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Frequency                                                                                                                   | Using 6.5 Digital Multimeter & Multi Product Calibrator by Direct / Comparison Method | 5 Hz to 10 Hz                                                                     | 0.22 % to 0.16 %                                 |
| 246  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time                                                                                                                        | Using Digital Timer by Comparison Method                                              | 10000 s to 86400 s                                                                | 0.5 s                                            |
| 247  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time                                                                                                                        | Using Digital Timer by Comparison Method                                              | > 10 s to 100 s                                                                   | 0.17 s                                           |
| 248  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time                                                                                                                        | Using Digital Timer by Comparison Method                                              | > 100 s to 1000 s                                                                 | 0.23 s to 0.5 s                                  |
| 249  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time                                                                                                                        | Using Digital Timer by Comparison Method                                              | 0.10 s to 10 s                                                                    | 0.001 s to 0.11 s                                |



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| 250  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time                                                                                                                        | Using Digital Timer by Comparison Method                                          | 1000 s to 10000 s                                                                 | 0.5 s                                            |
| 251  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time Period                                                                                                                 | Using Frequency Counter and Signal Generator by Direct Method / Comparison Method | 5 s to 25 ps                                                                      | 0.0001 % to 0.000019 %                           |
| 252  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)  | Frequency                                                                                                                   | Using Multi Product Calibrator by Direct Method                                   | 11.999 kHz to 119.9 kHz                                                           | 0.006 %                                          |
| 253  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)  | Frequency                                                                                                                   | Using Multi Product Calibrator by Direct Method                                   | 119.9 kHz to 1199.9 kHz                                                           | 0.006 % to 0.004 %                               |
| 254  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)  | Frequency                                                                                                                   | Using Multi Product Calibrator by Direct Method                                   | 119.99 Hz to 1199.9 Hz                                                            | 0.006 % to 0.004 %                               |
| 255  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)  | Frequency                                                                                                                   | Using Multi Product Calibrator by Direct Method                                   | 1199.9 Hz to 11.999 kHz                                                           | 0.006 %                                          |



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| 256  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source) | Frequency                                                                                                                   | Using Multi Product Calibrator by Direct Method | 1199.9 kHz to 2 MHz                                                               | 0.004 %                                          |
| 257  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source) | Frequency                                                                                                                   | Using Multi Product Calibrator by Direct Method | 3Hz to 1199.9 Hz                                                                  | 0.06% to 0.006%                                  |
| 258  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source) | Time Period                                                                                                                 | Using Signal Generator by Direct Method         | 100 µs to 25 ps                                                                   | 0.0031 % to 0.009 %                              |
| 259  | ELECTRO-TECHNICAL-TIME & FREQUENCY (Source) | Time Period                                                                                                                 | Using Function Generator by Direct Method       | 5 s to 100 µs                                                                     | 0.0005 %                                         |
| 260  | FLUID FLOW-FLOW MEASURING DEVICES           | Volume Flow Rate (Air / Gas)                                                                                                | Using Gas Flow Calibrator by Comparison Method  | 1 lpm to 100 lpm                                                                  | 1 %                                              |
| 261  | FLUID FLOW-FLOW MEASURING DEVICES           | Volume Flow Rate (Air / Gas)                                                                                                | Using Gas Flow Calibrator by Comparison Method  | 60 cc/min to 10000 cc/min                                                         | 1.36 %                                           |



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| 262  | FLUID FLOW-FLOW MEASURING DEVICES | Volume Flow Rate (Water)                                                                                                    | Using Clamp-on Ultrasonic Liquid Flow Meter by Comparison Method | 1 m <sup>3</sup> /hr to 246 m <sup>3</sup> /hr                                    | 2.62 %                                           |
| 263  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Contact Type                                                        | Using Digital Tachometer by Comparison Method                    | > 1000 rpm to 8000 rpm                                                            | 9.6 rpm                                          |
| 264  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Contact Type                                                        | Using Digital Tachometer by Comparison Method                    | 100 rpm to 1000 rpm                                                               | 2.4 rpm                                          |
| 265  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Non-Contact Type                                                    | Using Digital Tachometer by Comparison Method                    | > 100 rpm to 1000 rpm                                                             | 2.7 rpm                                          |
| 266  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Non-Contact Type                                                    | Using Digital Tachometer by Comparison Method                    | > 1000 rpm to 10000 rpm                                                           | 9.6 rpm                                          |
| 267  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Non-Contact Type                                                    | Using Digital Tachometer by Comparison Method                    | > 10000 rpm to 20000 rpm                                                          | 18.12 rpm                                        |
| 268  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Non-Contact Type                                                    | Using Digital Tachometer by Comparison Method                    | > 20000 rpm to 50000 rpm                                                          | 31.77 rpm                                        |



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| 269  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Non-Contact Type                                                     | Using Digital Tachometer by Comparison Method                           | > 50000 rpm to 90000 rpm                                                          | 57.23 rpm                                        |
| 270  | MECHANICAL-ACCELERATION AND SPEED | RPM Indicator of Centrifuge / RPM Source / Calibrator - Non-Contact Type                                                     | Using Digital Tachometer by Comparison Method                           | 6 rpm to 100 rpm                                                                  | 0.38 rpm                                         |
| 271  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Contact Type                                                          | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 100 rpm to 1000 rpm                                                             | 2.4 rpm                                          |
| 272  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Contact Type                                                          | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 1000 rpm to 4000 rpm                                                            | 9.6 rpm                                          |
| 273  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Contact Type                                                          | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 4000 rpm to 8000 rpm                                                            | 9.6 rpm                                          |
| 274  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Contact Type                                                          | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | 6 rpm to 100 rpm                                                                  | 0.31 rpm                                         |



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| 275  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Non-Contact Type                                                     | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 100 rpm to 1000 rpm                                                             | 2.7 rpm                                                |
| 276  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Non-Contact Type                                                     | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 1000 rpm to 10000 rpm                                                           | 9.6 rpm                                                |
| 277  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Non-Contact Type                                                     | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 10000 rpm to 20000 rpm                                                          | 18.12 rpm                                              |
| 278  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Non-Contact Type                                                     | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 20000 rpm to 50000 rpm                                                          | 31.77 rpm                                              |
| 279  | MECHANICAL-ACCELERATION AND SPEED | Speed (RPM) Meter with sensor, RPM Meter with sensor - Non-Contact Type                                                     | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 50000 rpm to 90000 rpm                                                          | 57.23 rpm                                              |
| 280  | MECHANICAL-ACCELERATION AND SPEED | Tachometer (Contact Type)                                                                                                   | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 100 rpm to 1000 rpm                                                             | 2.48 rpm                                               |



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| 281  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Contact Type                                                                                                   | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 1000 rpm to 4000 rpm                                                            | 9.6 rpm                                          |
| 282  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Contact Type                                                                                                   | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | 6 rpm to 100 rpm                                                                  | 0.38 rpm                                         |
| 283  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Contact Type                                                                                                   | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 4000 rpm to 8000 rpm                                                            | 8.73 rpm                                         |
| 284  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Non-Contact Type                                                                                               | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | 6 rpm to 100 rpm                                                                  | 0.38 rpm                                         |
| 285  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Non-Contact Type                                                                                               | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 100 rpm to 1000 rpm                                                             | 2.7 rpm                                          |
| 286  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Non-Contact Type                                                                                               | Using Digital Tachometer and Tachometer Calibrator by Comparison Method | > 1000 rpm to 10000 rpm                                                           | 9.6 rpm                                          |



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| 287  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Non-Contact Type                                                                                               | Using Digital Tachometer and Tachometer Calibrator by Comparison Method                     | > 10000 rpm to 20000 rpm                                                          | 18.12 rpm                                        |
| 288  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Non-Contact Type                                                                                               | Using Digital Tachometer and Tachometer Calibrator by Comparison Method                     | > 20000 rpm to 50000 rpm                                                          | 31.76 rpm                                        |
| 289  | MECHANICAL-ACCELERATION AND SPEED | Tachometer - Non-Contact Type                                                                                               | Using Digital Tachometer and Tachometer Calibrator by Comparison Method                     | > 50000 rpm to 90000 rpm                                                          | 54.9 rpm                                         |
| 290  | MECHANICAL-ACCELERATION AND SPEED | Vibration Meter - Velocity @ 10 Hz to 300 Hz                                                                                | Using Digital Vibration Meter and Vibration Source by Comparison Method as per ISO 16063-21 | 1 mm/s pk to 100 mm/s pk                                                          | 7.89 %                                           |
| 291  | MECHANICAL-ACCELERATION AND SPEED | Vibration Meter / Accelerometer - Acceleration @ 10 Hz to 300 Hz                                                            | Using Digital Vibration Meter and Vibration Source by Comparison Method as per ISO 16063-21 | 1 m/s <sup>2</sup> pk to 50 m/s <sup>2</sup> pk                                   | 6.89 %                                           |



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| 292  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Digital / Dial / Vernier Caliper (L.C.: 0.01 mm)                                                                            | Using Gauge Block Set & Caliper Checker by Comparison Method  | 0 to 300 mm                                                                       | 7.86 µm                                          |
| 293  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Digital / Dial / Vernier Caliper (L.C.: 0.01 mm)                                                                            | Using Gauge Block Set & Caliper Checker by Comparison Method  | 0 to 600 mm                                                                       | 12.5 µm                                          |
| 294  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Surface Plate (Granite / Cast Iron)                                                                                         | Using Spirit Level by Comparison Method                       | Up to 2000 mm X 2000 mm                                                           | 1.4 x sqrt(L+B) / 150 µm, Where L & B in mm      |
| 295  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Vernier / Dial / Digital Height Gauge (L.C.: 0.01 mm & coarser)                                                             | Using Gauge Block Set & Long Slip Gauges by Comparison Method | 0 to 600 mm                                                                       | 9.77 µm                                          |
| 296  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)                  | Dial Calibration Tester (L.C.: 0.0001 mm & Coarser)                                                                         | Using Slip Gauge Block Set by Comparison Method               | 0 to 25 mm                                                                        | 1.2 µm                                           |



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| 297  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector - Angular (L.C.: 1 Second of Arc)                                                                                                | Using Angle Gauge by Comparison Method                                                        | Up to 360°                                                                        | 0.76 Minutes of Arc                              |
| 298  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector - Magnification                                                                                                                  | Using Slip Gauge, Long Slip Gauge, Digital Caliper by Comparison Method                       | 10 X to 100 X                                                                     | 0.69 %                                           |
| 299  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector / Video Measuring System / Microscope - Linear (L.C.: 0.0001 mm)                                                                 | Using Slip Gauges & Long Slip Gauges by Comparison Method                                     | Up to 300 mm                                                                      | 5 µm                                             |
| 300  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Tape & Scale Calibrator (L.C.: 0.001 mm)                                                                                                           | Using Gauge Block Set & Long Slip by Comparison Method                                        | 0 to 1000 mm                                                                      | 10.6 µm                                          |
| 301  | MECHANICAL-PRESSURE INDICATING DEVICES       | Absolute Pressure: Analog / Digital Pressure Gauge, Pressure Transmitter with / without Indicator, Pressure Switch, Pressure Calibrator, Manometer | Using Absolute Pressure Calibrator & Digital Multimeter by Comparison Method as per DKD R 6-1 | 0.1 bar (abs) to 2 bar (abs)                                                      | 0.0005 bar (abs)                                 |



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| 302  | MECHANICAL-PRESSURE INDICATING DEVICES | Absolute Pressure: Analog / Digital Pressure Gauge, Pressure Transmitter with / without Indicator, Pressure Switch, Pressure Calibrator, Manometer, Barometer | Using Using Absolute Pressure Calibrator, Digital Multimeter & Hand Pump by Comparison Method as per DKD R 6-1       | 750 mbar (abs) to 1050 mbar (abs)                                                 | 3 mbar (abs)                                     |
| 303  | MECHANICAL-PRESSURE INDICATING DEVICES | Hydraulic Medium: Analog / Digital Pressure Gauge, Pressure Transmitter with or without Indicator, Pressure Switch, Pressure Calibrator                       | Using Digital Pressure Calibrator, Digital Multimeter and Hand Pump Comparator by Comparison Method as per DKD R 6-1 | 0 to 1000 bar                                                                     | 0.15 bar                                         |
| 304  | MECHANICAL-PRESSURE INDICATING DEVICES | Hydraulic Medium: Analog / Digital Pressure Gauge, Pressure Transmitter with or without Indicator, Pressure Switch, Pressure Calibrator                       | Using Digital Pressure Calibrator, Digital Multimeter and Hand Pump Comparator by Comparison Method as per DKD R 6-1 | 0 to 700 bar                                                                      | 0.2 bar                                          |



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|------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 305  | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Medium: Analog / Digital Vacuum Gauge, Vacuum Transmitter with or without Indicator, Vacuum Switch, Vacuum Calibrator, Manometer               | Using Digital Calibrator & Digital Multimeter by Comparison Method as per DKD R 6-1                   | (-) 0.95 bar to 0                                                                 | 0.0003 bar                                       |
| 306  | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Medium: Pressure Gauge, Magnehelic Gauge, Pressure Indicator, Controller, Transmitter, Switch, Manometer                                       | Using Digital Manometer (DPG), Digital Multimeter & Vacuum Pump by Comparison Method as per DKD R 6-1 | (-) 100 mbar to 100 mbar                                                          | 0.072 mbar                                       |
| 307  | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Medium: Pressure Gauge, Pressure Indicator, Controller, Transmitter with or without Indicator, Pressure Switch, Pressure Calibrator, Manometer | Using Digital Pressure Calibrator & Digital Multimeter by Comparison Method as per DKD R 6-1          | 0 to 2 bar                                                                        | 0.0008 bar                                       |



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| 308  | MECHANICAL-PRESSURE INDICATING DEVICES | Pneumatic Medium: Pressure Gauge, Pressure Indicator, Controller, Transmitter with or without Indicator, Pressure Switch, Pressure Calibrator, Manometer | Using Digital Pressure Calibrator & Digital Multimeter by Comparison Method as per DKD R 6-1                            | 0 to 40 bar                                                                       | 0.010 bar                                              |
| 309  | MECHANICAL-TORQUE GENERATING DEVICES   | Torque Wrench - Type I (Class A, B, C) & Type II (Class A, B, C, G)                                                                                      | Using Torque Transducer with indicator of various capacities, Torque Calibration ring as per clause 4 of ISO 6789: 2017 | 300 Nm to 1000 Nm                                                                 | 0.53 %                                                 |
| 310  | MECHANICAL-TORQUE GENERATING DEVICES   | Torque Wrench, Torque Driver - Type I (Class A B, C) & Type II (Class A, B, C, G)                                                                        | Using Torque Transducer With indicator of various capacities, Torque Calibration ring as per clause 4 of ISO 6789: 2017 | 10 Nm to 300 Nm                                                                   | 0.53 %                                                 |
| 311  | MECHANICAL-TORQUE GENERATING DEVICES   | Torque Wrench, Torque Driver - Type I (Class B, C, D, E) & Type II (Class A, B, D, E)                                                                    | Using Torque Transducer with indicator of various capacities, Torque Calibration ring as per clause 4 of ISO 6789: 2017 | 0.1 Nm to 10 Nm                                                                   | 1.99 %                                                 |



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| 312  | MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE | Verification of Universal Testing Machine (Compression Mode)                                                                | Using Load Cell with Indicator by Direct Method as per IS 1828: 2022                                                  | 100 N to 10 kN                                                                    | 0.58 %                                           |
| 313  | MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE | Verification of Universal Testing Machine (Tension Mode)                                                                    | Using Load Cell with Indicator by Direct Method as per IS 1828: 2022                                                  | 100 N to 10 kN                                                                    | 0.58 %                                           |
| 314  | MECHANICAL-VOLUME                                         | Glassware: Graduated Measuring Cylinder, Graduated Pipette, Graduated Burette, Volumetric Flask, Pyknometer                 | Using Precision Weighing Balance (Readability: 0.1 mg) and Distilled Water by Gravimetric Method as per ISO4787: 2021 | 1 ml to 10 ml                                                                     | 1 µl                                             |
| 315  | MECHANICAL-VOLUME                                         | Glassware: Graduated Measuring Cylinder, Graduated Pipette, Graduated Burette, Volumetric Flask, Pyknometer                 | Using Precision Weighing Balance (Readability: 0.01 mg) & Distilled Water by Gravimetric Method as per ISO 4787: 2021 | 20 ml to 50 ml                                                                    | 0.94 µl                                          |
| 316  | MECHANICAL-WEIGHING SCALE AND BALANCE                     | Digital / Analog Weighing Balance - Class I (Readability : 0.01 mg)                                                         | Using E1 Class Standard Weights as per OIML R 76-1                                                                    | 0 to 200 g                                                                        | 0.04 mg                                          |



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| 317  | MECHANICAL-WEIGHING SCALE AND BALANCE | Digital / Analog Weighing Balance - Class II (Readability: 10 mg and coarser)                                               | Using E2 & F1 Class Standard Weights as per OIML R 76-1 | 0 to 1000 g                                                                       | 13 mg                                            |
| 318  | MECHANICAL-WEIGHING SCALE AND BALANCE | Digital / Analog Weighing Balance - Class II (Readability: 10 mg)                                                           | Using E2 & F1 Class Standard Weights as per OIML R 76-1 | 0 to 5 kg                                                                         | 10 mg                                            |
| 319  | MECHANICAL-WEIGHING SCALE AND BALANCE | Digital / Analog Weighing Balance - Class II (Readability: 100 mg)                                                          | Using F1 Class Standard Weights as per OIML R 76-1      | 0 to 20 kg                                                                        | 62.6 mg                                          |
| 320  | MECHANICAL-WEIGHING SCALE AND BALANCE | Digital / Analog Weighing Balance - Class IV (Readability: 20 g)                                                            | Using F1 & M1 Class Standard Weights as per OIML R 76-1 | 0 to 300 kg                                                                       | 13.2 g                                           |
| 321  | MECHANICAL-WEIGHING SCALE AND BALANCE | Digital / Analog Weighing Balance - Class IV (Readability: 50 g and coarser)                                                | Using M1 Class Standard Weights as per OIML R 76-1      | 0 to 1000 kg                                                                      | 200 g                                            |
| 322  | MECHANICAL-WEIGHING SCALE AND BALANCE | Electronic Weighing Balance - Class I and Coarser (Readability: 0.0001 mg)                                                  | Using E1 Class Weights as per OIML R 76-1               | 0 to 6.1 g                                                                        | 0.01 mg                                          |



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| 323  | OPTICAL-EQUIPMENTS               | Optical Power Attenuation @ 1310 nm and 1550 nm                                                                                                              | Using Optical power Meter, Optical Attenuator & Optical Source by Direct Method / Comparison Method | 5 dB to 30 dB                                                                     | 3.2 %                                            |
| 324  | OPTICAL-EQUIPMENTS               | Optical Power Level @ 1310 nm and 1550 nm                                                                                                                    | Using Optical Power Meter, Optical Attenuator & Optical Source by Direct Method / Comparison Method | (-) 10 dBm to (-) 40 dBm                                                          | 3.2 %                                            |
| 325  | OPTICAL-EQUIPMENTS               | Optical Power Level @ 850 nm and 1300 nm                                                                                                                     | Using Optical Power Meter, Optical Attenuator & Optical Source by Direct Method / Comparison Method | (-) 10 dBm to (-) 20 dBm                                                          | 3.8 %                                            |
| 326  | THERMAL-SPECIFIC HEAT & HUMIDITY | Digital / Analog Thermo Hygrometer, Hygrometer, Hygrograph, Humidity Sensor with Indicator, Data Logger (inbuilt Sensor), Temperature & Humidity Transmitter | Using Digital Thermohygrometer, Digital Multimeter & Humidity Chamber by Comparison Method          | 10 %rh to 95 %rh @ 25 °C                                                          | 0.85 %rh                                         |



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| 327  | THERMAL-SPECIFIC HEAT & HUMIDITY | Digital / Analog Thermo Hygrometers (temperature only), Hygrographs(temperature only), Data Logger (built in sensor), Humidity (built-in sensor)         | Using Thermo-Hygrometer with temperature Chamber by Comparison Method          | 5 °C to 60 °C @ 50 %rh                                                            | 0.4 °C                                           |
| 328  | THERMAL-SPECIFIC HEAT & HUMIDITY | Environmental Chamber, Humidity Chamber - Multi-Position                                                                                                 | Using Temperature Humidity Datalogger (Minimum 9 sensors) by Comparison Method | 30 %rh to 95 %rh @ 20 °C to 50 °C                                                 | 2.84 %rh                                         |
| 329  | THERMAL-SPECIFIC HEAT & HUMIDITY | Humidity Sensor of Indicator / Controller / Recorder of Chamber / Environmental Chamber - single Position                                                | Using Digital Thermohygrometer by Comparison Method                            | 15 %rh to 95 %rh @ 20 °C to 50 °C                                                 | 0.9 %rh                                          |
| 330  | THERMAL-TEMPERATURE              | Chiller, Freezer, Oven, Cold box, Incubator (for Non-Medical Purpose), Autoclave (for Non-Medical Purpose), Bath, Environmental Chamber - Multi-Position | Using Data Logger with RTD Sensor (Minimum 9 sensors) by Comparison Method     | (-) 80 °C to 400 °C                                                               | 1.2 °C                                           |



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|------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 331  | THERMAL-TEMPERATURE | Oven, Bath, Furnace - Multi-Position                                                                                                                          | Using Data Logger with N Type Sensor (Minimum 9 sensors) by Comparison Method               | 400 °C to 1200 °C                                                                 | 4 °C                                             |
| 332  | THERMAL-TEMPERATURE | RTD / Thermocouple with or without Indicator, Temperature Data logger with sensor, Temperature Gauge, Temperature Transmitter with sensor, Temperature switch | Using SSPRT Sensor with Digital Multimeter, MFC & Dry block Calibrator by Comparison Method | 250 °C to 650 °C                                                                  | 0.13 °C                                          |
| 333  | THERMAL-TEMPERATURE | RTD / Thermocouple with or without Indicator, Temperature Datalogger with sensor, Temperature Gauge, Temperature Transmitter with sensor, Temperature switch  | Using SSPRT Sensor with Digital Multimeter, MFC & Liquid Nitrogen Bath by Comparison Method | (-) 196 °C                                                                        | 0.15 °C                                          |



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|------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| 334  | THERMAL-TEMPERATURE | RTD / Thermocouple with or without Indicator, Thermistor with indicator, Temperature Recorder / Datalogger / Gauge (Inbuilt Sensor), Switch, Transmitter | Using SSPRT Sensor with Digital Multimeter & Ultra Low Liquid Bath by Comparison Method | (-) 80 °C to 30 °C                                                                | 0.15 °C                                                |
| 335  | THERMAL-TEMPERATURE | RTD / Thermocouple with or without Indicator, Thermistor with indicator, Temperature Recorder / Datalogger / Gauge (Inbuilt Sensor), Switch, Transmitter | Using SSPRT Sensor with Digital Multimeter, MFC & Oil bath by Comparison Method         | 30 °C to 250 °C                                                                   | 0.10 °C                                                |
| 336  | THERMAL-TEMPERATURE | Temperature Indicator of Bath / Dry Block Calibrator - Single Position                                                                                   | Using R-Type Thermocouple with Indicator by Comparison Method                           | 650 °C to 1200 °C                                                                 | 1.96 °C                                                |
| 337  | THERMAL-TEMPERATURE | Temperature Indicator sensor of Bath / Dry Block Calibrator - Single Position                                                                            | Using SSPRT Sensor with Digital Multimeter by Comparison Method                         | (-) 80 °C to 200 °C                                                               | 0.17 °C                                                |



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| 338  | THERMAL-TEMPERATURE | Temperature Indicator Sensor of Bath / Dry Block Calibrator - Single Position                                                | Using SSPRT Sensor with Digital Multimeter by Comparison Method                          | > 200 °C to 650 °C                                                                | 0.16 °C                                                |
| 339  | THERMAL-TEMPERATURE | Temperature Indicator with Sensor of Black Body Source - Single Position                                                     | Using Pyrometer (Emissivity @ 0.95) by Comparison Method                                 | 50 °C to 500 °C                                                                   | 2.66 °C                                                |
| 340  | THERMAL-TEMPERATURE | Temperature Indicator with sensor of Oven / Furnace / Bath / Environmental Chamber - Single Position                         | Using R-Type Thermocouple with Indicator by Comparison Method                            | 400 °C to 1200 °C                                                                 | 1.65 °C                                                |
| 341  | THERMAL-TEMPERATURE | Thermocouple with or without Indicator, Temperature Recorder / Datalogger / Gauge (Inbuilt Sensor), Switch, Transmitter      | Using R-Type Thermocouple with indicator, MFC & Dry bath calibrator by Comparison Method | 650 °C to 1200 °C                                                                 | 1.85 °C                                                |

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