



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** YASH METROLOGY LABORATORY PRIVATE LIMITED, 93 - E, SECTOR - 5, GANDHI NAGAR, CHITTAURGARH, RAJASTHAN, INDIA

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

**Certificate Number** NABLC0626RJ04752 **Page No** 1 of 31

**Validity** 12/06/2026 to 11/06/2030 **Last Amended on** 09/06/2026

| S.No               | Discipline / Group                                        | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument | Calibration or Measurement Method or procedure                                     | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
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| Permanent Facility |                                                           |                                                                                                                             |                                                                                    |                                                                                   |                                                  |
| 1                  | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Voltage Harmonics @ 50 Hz (60 V to 240 V)                                                                                   | Using 3 Phase Multifunction Standard Meter, Electronic source by Comparison Method | 1st order to 39th order & Total Harmonics Distortion                              | 0.8 %                                            |
| 2                  | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 1 Phase (1P2W) AC Active Energy @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)                   | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 4 mWh to 38.4 mWh                                                                 | 2.4 % to 0.032 %                                 |
| 3                  | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 1 Phase (1P2W) AC Active Power @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)                    | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 4 mW to 38.4 kW                                                                   | 2.4 % to 0.032 %                                 |
| 4                  | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 1 Phase (1P2W) AC Apparent Energy @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A)                                          | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 0.4 VAh to 38.4 MVAh                                                              | 2.4 % to 0.032 %                                 |



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| 5    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 1 Phase (1P2W) AC Apparent Power @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A)                                           | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 0.4 VA to 38.4 kVA                                                                | 0.052 % to 0.032 %                               |
| 6    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 1 Phase (1P2W) AC Reactive Energy @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)                 | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 4 mVArh to 38.4 MVarh                                                             | 2.4 % to 0.032 %                                 |
| 7    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 1 Phase (1P2W) AC Reactive Power @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)                  | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 4 mVAr to 38.4 kVAr                                                               | 2.34 % to 0.032 %                                |
| 8    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 3 Phase (3P4W & 3P3W) AC Reactive Energy @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)          | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 12 mVArh to 115.2 MVarh                                                           | 2.4 % to 0.032 %                                 |



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| 9    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 3 Phase (3P4W & 3P3W) AC Active Energy @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)             | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 12 mWh to 115.2 MWh                                                               | 2.4 % to 0.032 %                                 |
| 10   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 3 Phase (3P4W & 3P3W) AC Active Power @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)              | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 12 mW to 115.2 kW                                                                 | 2.4 % to 0.032 %                                 |
| 11   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 3 Phase (3P4W & 3P3W) AC Apparent Energy @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A)                                    | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 1.2 VAh to 115 MVAh                                                               | 1.62 % to 0.032 %                                |
| 12   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 3 Phase (3P4W & 3P3W) AC Apparent Power @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A)                                     | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 1.2 VA to 115 kVA                                                                 | 0.05 % to 0.032 %                                |



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| 13   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 3 Phase (3P4W & 3P3W) AC Reactive Power @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)           | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 12 mVAr to 115.2 kVAr                                                             | 2.4 % to 0.032 %                                 |
| 14   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz                                                                                                          | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 1 A to 100 A                                                                      | 0.019 % to 0.023 %                               |
| 15   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz                                                                                                          | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 1 mA to 1 A                                                                       | 0.054 % to 0.019 %                               |
| 16   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz                                                                                                          | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 100 A to 120 A                                                                    | 0.023 % to 0.027 %                               |
| 17   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz to 1 kHz                                                                                                 | Using 6½ DMM by Direct Method                                                      | 50 µA to 10 A                                                                     | 0.13 % to 0.18 %                                 |



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| 18   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC High Current @ 50 Hz                                                                                                     | Using Standard Current Transformer, 6½ DMM by Comparison Method                    | 100 A to 5000 A                                                                   | 0.3 %                                            |
| 19   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 45 Hz to 60 Hz                                                                                                 | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 10 V to 480 V                                                                     | 0.055 % to 0.091 %                               |
| 20   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 50 Hz to 1 kHz                                                                                                 | Using 6½ DMM by Direct Method                                                      | 1 mV to 1 kV                                                                      | 3.61 % to 0.15 %                                 |
| 21   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 50 Hz to 60 Hz                                                                                                 | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 2 V to 10 V                                                                       | 0.07 %                                           |
| 22   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Current Harmonics @ (0.1 A to 20 A)                                                                                         | Using 3 Phase Multifunction Standard Meter, Electronic source by Comparison Method | 1st order to 39th order & Total Harmonics Distortion                              | 0.8 %                                            |



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| 23   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Power Factor @ 50 Hz (0° to 360°, 30 V to 320 V, 10 A)                                                                      | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | ( $\pm$ ) 0.01 to UPF                                                             | 0.0050 PF                                              |
| 24   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Voltage Ratio                                                                                                               | Using Standard Current Transformer and Digital Multimeter by V/V Method            | 1 Turn to 2000 Turn                                                               | 2 %                                                    |
| 25   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)  | AC Current @ 50 Hz to 1 kHz                                                                                                 | Using Multiproduct Calibrator by Direct Method                                     | 100 $\mu$ A to 20 A                                                               | 0.19 % to 0.06 %                                       |
| 26   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)  | AC Voltage @ 50 Hz to 1 kHz                                                                                                 | Using Multifunction Calibrator by Direct Method                                    | 1 mV to 1 kV                                                                      | 3.61 % to 0.02 %                                       |
| 27   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)                | DC Current                                                                                                                  | Using 6½ DMM by Direct Method                                                      | 100 $\mu$ A to 10 A                                                               | 0.10 % to 0.12 %                                       |



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| 28   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC High Voltage                                                                                                             | Using AC/DC HV Calibrator with Digital Meter by Comparison Method as per IEC 60060-2: 2025 | 1 kV to 100 kV                                                                    | 2.73 % to 2.2 %                                  |
| 29   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (2 Wire)                                                                                                      | Using 6½ DMM by Direct Method                                                              | 200 kohm to 1 Gohm                                                                | 0.09 % to 2.60 %                                 |
| 30   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Resistance (4 Wire)                                                                                                      | Using 6½ DMM by Direct Method                                                              | 1 ohm to 100 kohm                                                                 | 0.08 % to 0.09 %                                 |
| 31   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 6½ DMM by Direct Method                                                              | 1 mV to 1 kV                                                                      | 0.08 % to 0.023 %                                |
| 32   | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)  | DC Current                                                                                                                  | Using Multifunction Calibrator by Direct Method                                            | 10 µA to 20 A                                                                     | 0.82 % to 0.08 %                                 |



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| 33   | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)        | DC Resistance (2 Wire)                                                                                                      | Using Decade Resistance Box by Direct Method           | 1 ohm to 1 Gohm                                                                   | 0.82 % to 2.47 %                                 |
| 34   | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)        | DC Resistance (2 Wire)                                                                                                      | Using Multifunction Calibrator by Direct Method        | 1 ohm to 190 Mohm                                                                 | 0.1 % to 1.86 %                                  |
| 35   | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)        | DC Resistance (4 Wire)                                                                                                      | Using Standard Resistance Box by Direct Method         | 100 µohm to 1 ohm                                                                 | 1.68 %                                           |
| 36   | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)        | DC Voltage                                                                                                                  | Using Multifunction Calibrator by Direct Method        | 1 mV to 1 kV                                                                      | 0.087 % to 0.08 %                                |
| 37   | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)        | High Resistance (2 Wire) @ 500 V & 5000 V                                                                                   | Using High Resistance Box by Direct Method             | 1 Gohm to 1 Tohm                                                                  | 3.95 % to 4.95 %                                 |
| 38   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | CT-VT Comparator / Bridge - Phase Error (5 A, 1 A) @ 50 Hz                                                                  | Using Standard Comparator (AITTS) by Comparison Method | 1 % to 120 %                                                                      | 2.5 minute                                       |



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| 39   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | CT-VT Comparator / Bridge - Phase Error (63.5 V, 110 V) @ 50 Hz                                                             | Using Standard Comparator (AITTS) by Comparison Method                                             | 2 % to 120 %                                                                      | 2.5 minute                                             |
| 40   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | CT-VT Comparator / Bridge - Ratio Error (1 A, 5 A) @ 50 Hz                                                                  | Using Standard Comparator (AITTS) by Comparison Method                                             | 1 % to 120 %                                                                      | 0.03 %                                                 |
| 41   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | CT-VT Comparator / Bridge - Ratio Error (63.5 V, 110 V) @ 50 Hz                                                             | Using Standard Comparator (AITTS) by Comparison Method                                             | 2 % to 120 %                                                                      | 0.03 %                                                 |
| 42   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Current Transformer - Ratio Error (5 A/5 A -1 A to 3200 A/5 A-1 A) @ 50 Hz                                                  | Using Standard Current Transformer, Automatic Instrument Transformer Test Set by Comparison Method | 1 % to 120 %                                                                      | 0.036 % to 0.044 %                                     |
| 43   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Current Transformer - Phase Error (5 A/5 A-1 A to 3200 A/5 A-1 A) @ 50 Hz                                                   | Using Standard Current Transformer, Automatic Transformer Test Set by Comparison Method            | 1 % to 120 %                                                                      | 2.5 minute                                             |



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| 44   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | PD Calibrator - Charge                                                                                                      | Using PC Oscilloscope and Standard Resistance by Direct Method as per IEC 60270                   | 1 pC to 1000 pC                                                                   | 1.3 %                                            |
| 45   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | PD Calibrator - Pulse Repetition Time                                                                                       | Using PC Oscilloscope and Standard Resistance by Direct Method as per IEC 60270                   | 1 ms to 20 ms                                                                     | 0.70 %                                           |
| 46   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | PD Calibrator - Rise Time                                                                                                   | Using PC Oscilloscope and Standard Resistance by Direct Method as per IEC 60270                   | 10 ns to 150 ns                                                                   | 0.70 %                                           |
| 47   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Ratio (Impulse Voltage Divider)                                                                                             | Using Impulse Voltage Divider with Impulse Analyzer by Comparison Method as per IEC 60060-2: 2025 | 100 kVp to 500 kVp                                                                | 1.70 %                                           |
| 48   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Ratio (Impulse Voltage Divider)                                                                                             | Using Impulse Calibrator by Direct Method                                                         | 100 Vp to 1000 Vp                                                                 | 0.90 %                                           |



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| 49   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | VA - CT Burden Box (5 A, 1 A) @ 50 Hz                                                                                       | Using 3 Phase Reference Standard by Direct Method                                                    | 1.25 VA to 30 VA                                                                  | 0.3 % to 0.4 %                                   |
| 50   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | VA - PT Burden Box (63.5 V, 110 V) @ 50 Hz                                                                                  | Using Three Phase Reference Standard by Direct Method                                                | 1.25 VA to 100 VA                                                                 | 0.3 % to 0.4 %                                   |
| 51   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Voltage / Potential Transformer - Phase Error (110 V/110 V to 3.3 kV/110 V) @ 50 Hz                                         | Using Standard Potential Transformer, Automatic Instrument Transformer Test Set by Comparison Method | 80 % to 120 %                                                                     | 3 minute                                         |
| 52   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Voltage / Potential Transformer - Phase Error (6.6 kV/110 V-63.5 V to 33 kV/110 V-63.5 V) @ 50 Hz                           | Using Standard Potential Transformer, Automatic Instrument Transformer Test Set by Comparison Method | 1 % to 120 %                                                                      | 3 minute                                         |



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| 53   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Voltage / Potential Transformer - Ratio Error (110 V/110 V to 3.3 kV/110 V) @ 50 Hz                                                      | Using Standard Potential Transformer, Automatic Instrument Transformer Test Set by Comparison Method | 80 % to 120 %                                                                     | 0.07 %                                           |
| 54   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Voltage / Potential Transformer - Ratio Error (6.6 kV/110 V-63.5 V to 33 kV/110 V-63.5 V) @ 50 Hz                                        | Using Standard Potential Transformer, Automatic Instrument Transformer Test Set by Comparison Method | 2 % to 120 %                                                                      | 0.07 %                                           |
| 55   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Voltage Transformer / Capacitive Voltage Transformer / Voltage Divider - Phase Error (66 kV/110 V-63.5 V to 132 kV/110 V-63.5 V) @ 50 Hz | Using Standard Potential Transformer, Automatic Instrument Transformer Test Set by Comparison Method | 1 % to 120 %                                                                      | 3 minute                                         |



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| 56   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Voltage Transformer / Capacitive Voltage Transformer / Voltage Divider - Ratio Error (66 kV/110 V-63.5 V to 132 kV/110 V-63.5 V) @ 50 Hz | Using Standard Potential Transforme, Automatic Instrument Transformer Test Set by Comparison Method | 1 % to 120 %                                                                      | 0.07 %                                           |
| 57   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)  | Impulse Voltage (LI Front Time)                                                                                                          | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1                              | 0.84 $\mu$ s                                                                      | 1.8 %                                            |
| 58   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)  | Impulse Voltage (LI Tail Time)                                                                                                           | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1                              | 60 $\mu$ s                                                                        | 1.8 %                                            |
| 59   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)  | Impulse Voltage (LI)                                                                                                                     | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1                              | ( $\pm$ ) 50 Vp to ( $\pm$ ) 1000 Vp                                              | 0.76 %                                           |
| 60   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)  | Impulse Voltage (LIC Chopped Time)                                                                                                       | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1                              | 0.5 $\mu$ s                                                                       | 1.8 %                                            |



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| 61   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Impulse Voltage (LIC)                                                                                                       | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1             | (±) 100 Vp to (±) 1000 Vp                                                         | 0.9 %                                            |
| 62   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Impulse Voltage (SI Front Time)                                                                                             | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1             | 20 µs                                                                             | 1.8 %                                            |
| 63   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Impulse Voltage (SI Tail Time)                                                                                              | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1             | 4000 µs                                                                           | 1.8 %                                            |
| 64   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Impulse Voltage (SI)                                                                                                        | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1             | (±) 50 Vp to (±) 1000 Vp                                                          | 0.76 %                                           |
| 65   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | PD Amplifier - Frequency Response @ (0.1 V to 2 V)                                                                          | Using PC Oscilloscope by Direct Method                                             | 50 Hz to 1 MHz                                                                    | 0.8 %                                            |
| 66   | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)    | Frequency                                                                                                                   | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 45 Hz to 65 Hz                                                                    | 0.033 % to 0.027 %                               |



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| 67   | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Frequency                                                                                                                   | Using 6½ DMM, Multifunction Calibrator by Comparison Method | 45 Hz to 1 kHz                                                                    | 0.05 %                                           |
| 68   | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time                                                                                                                        | Using Digital Time Calibrator by Comparison Method          | 10 s to 86400 s                                                                   | 0.23 s to 22 s                                   |



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|---------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| Site Facility |                                                           |                                                                                                                             |                                                                                    |                                                                                   |                                                  |
| 1             | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Voltage Harmonics @ 50 Hz (60 V to 240 V)                                                                                   | Using 3 Phase Multifunction Standard Meter, Electronic source by Comparison Method | 1st order to 39th order & Total Harmonics Distortion                              | 0.8 %                                            |
| 2             | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 1 Phase (1P2W) AC Active Energy @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)                   | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 4 mWh to 38.4 mWh                                                                 | 2.4 % to 0.032 %                                 |
| 3             | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 1 Phase (1P2W) AC Active Power @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)                    | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 4 mW to 38.4 kW                                                                   | 2.4 % to 0.032 %                                 |
| 4             | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 1 Phase (1P2W) AC Apparent Energy @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A)                                          | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 0.4 VAh to 38.4 MVAh                                                              | 2.4 % to 0.032 %                                 |



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| 5    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 1 Phase (1P2W) AC Apparent Power @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A)                                           | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 0.4 VA to 38.4 kVA                                                                | 0.052 % to 0.032 %                               |
| 6    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 1 Phase (1P2W) AC Reactive Energy @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)                 | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 4 mVArh to 38.4 MVarh                                                             | 2.4 % to 0.032 %                                 |
| 7    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 1 Phase (1P2W) AC Reactive Power @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)                  | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 4 mVAr to 38.4 kVAr                                                               | 2.34 % to 0.032 %                                |
| 8    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 3 Phase (3P4W & 3P3W) AC Reactive Energy @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)          | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 12 mVArh to 115.2 MVarh                                                           | 2.4 % to 0.032 %                                 |



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| 9    | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 3 Phase (3P4W & 3P3W) AC Active Energy @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)             | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 12 mWh to 115.2 MWh                                                               | 2.4 % to 0.032 %                                 |
| 10   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 3 Phase (3P4W & 3P3W) AC Active Power @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)              | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 12 mW to 115.2 kW                                                                 | 2.4 % to 0.032 %                                 |
| 11   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 3 Phase (3P4W & 3P3W) AC Apparent Energy @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A)                                    | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 1.2 VAh to 115 MVAh                                                               | 1.62 % to 0.032 %                                |
| 12   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 3 Phase (3P4W & 3P3W) AC Apparent Power @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A)                                     | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 1.2 VA to 115 kVA                                                                 | 0.05 % to 0.032 %                                |



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| 13   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | 3 Phase (3P4W & 3P3W) AC Reactive Power @ 40 Hz to 60 Hz (40 V to 320 V, 10 mA to 120 A, 0.01 PF Lead/Lag to UPF)           | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 12 mVAr to 115.2 kVAr                                                             | 2.4 % to 0.032 %                                 |
| 14   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz                                                                                                          | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 1 A to 100 A                                                                      | 0.019 % to 0.023 %                               |
| 15   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz                                                                                                          | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 1 mA to 1 A                                                                       | 0.054 % to 0.019 %                               |
| 16   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz                                                                                                          | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 100 A to 120 A                                                                    | 0.023 % to 0.027 %                               |
| 17   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz to 1 kHz                                                                                                 | Using 6½ DMM by Direct Method                                                      | 50 µA to 10 A                                                                     | 0.13 % to 0.18 %                                 |



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| 18   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC High Current @ 50 Hz                                                                                                     | Using Standard Current Transformer, 6½ DMM by Comparison Method                              | 100 A to 5000 A                                                                   | 0.3 %                                            |
| 19   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC High Voltage @ 50 Hz                                                                                                     | Using Capacitive Voltage Divider with kV Meter by Comparison Method as per IEC 60060-2: 2025 | 1 kV to 200 kV                                                                    | 1.97 %                                           |
| 20   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC High Voltage @ 50 Hz                                                                                                     | Using 6½ DMM, Inductive Voltage Transformer by Comparison Method                             | 500 V to 150 kV                                                                   | 0.49 % to 0.3 %                                  |
| 21   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 45 Hz to 60 Hz                                                                                                 | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method           | 10 V to 480 V                                                                     | 0.055 % to 0.091 %                               |
| 22   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 50 Hz to 1 kHz                                                                                                 | Using 6½ DMM by Direct Method                                                                | 1 mV to 1 kV                                                                      | 3.61 % to 0.15 %                                 |



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| 23   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 50 Hz to 60 Hz                                                                                                 | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 2 V to 10 V                                                                       | 0.07 %                                           |
| 24   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Current Harmonics @ (0.1 A to 20 A)                                                                                         | Using 3 Phase Multifunction Standard Meter, Electronic source by Comparison Method | 1st order to 39th order & Total Harmonics Distortion                              | 0.8 %                                            |
| 25   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Power Factor @ 50 Hz (0° to 360°, 30 V to 320 V, 10 A)                                                                      | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | (±) 0.01 to UPF                                                                   | 0.0050 PF                                        |
| 26   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Voltage Ratio                                                                                                               | Using Standard Current Transformer and Digital Multimeter by V/V Method            | 1 Turn to 2000 Turn                                                               | 2 %                                              |
| 27   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)  | AC Current @ 50 Hz to 1 kHz                                                                                                 | Using Multiproduct Calibrator by Direct Method                                     | 100 µA to 20 A                                                                    | 0.19 % to 0.06 %                                 |



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| 28   | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source) | AC Voltage @ 50 Hz to 1 kHz                                                                                                 | Using Multifunction Calibrator by Direct Method                                            | 1 mV to 1 kV                                                                      | 3.61 % to 0.02 %                                 |
| 29   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)               | DC Current                                                                                                                  | Using 6½ DMM by Direct Method                                                              | 100 µA to 10 A                                                                    | 0.10 % to 0.12 %                                 |
| 30   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)               | DC High Voltage                                                                                                             | Using AC/DC HV Calibrator with Digital Meter by Comparison Method as per IEC 60060-2: 2025 | 1 kV to 100 kV                                                                    | 2.73 % to 2.2 %                                  |
| 31   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)               | DC Resistance (2 Wire)                                                                                                      | Using 6½ DMM by Direct Method                                                              | 200 kohm to 1 Gohm                                                                | 0.09 % to 2.60 %                                 |
| 32   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)               | DC Resistance (4 Wire)                                                                                                      | Using 6½ DMM by Direct Method                                                              | 1 ohm to 100 kohm                                                                 | 0.08 % to 0.09 %                                 |



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| 33   | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage                                                                                                                  | Using 6½ DMM by Direct Method                   | 1 mV to 1 kV                                                                      | 0.08 % to 0.023 %                                |
| 34   | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)  | DC Current                                                                                                                  | Using Multifunction Calibrator by Direct Method | 10 µA to 20 A                                                                     | 0.82 % to 0.08 %                                 |
| 35   | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)  | DC Resistance (2 Wire)                                                                                                      | Using Decade Resistance Box by Direct Method    | 1 ohm to 1 Gohm                                                                   | 0.82 % to 2.47 %                                 |
| 36   | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)  | DC Resistance (2 Wire)                                                                                                      | Using Multifunction Calibrator by Direct Method | 1 ohm to 190 Mohm                                                                 | 0.1 % to 1.86 %                                  |
| 37   | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)  | DC Resistance (4 Wire)                                                                                                      | Using Standard Resistance Box by Direct Method  | 100 µohm to 1 ohm                                                                 | 1.68 %                                           |
| 38   | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)  | DC Voltage                                                                                                                  | Using Multifunction Calibrator by Direct Method | 1 mV to 1 kV                                                                      | 0.087 % to 0.08 %                                |



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| 39   | ELECTRO-TECHNICAL-DIRECT CURRENT (Source)        | High Resistance (2 Wire) @ 500 V & 5000 V                                                                                    | Using High Resistance Box by Direct Method             | 1 Gohm to 1 Tohm                                                                  | 3.95 % to 4.95 %                                 |
| 40   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | CT-VT Comparator / Bridge - Phase Error (5 A, 1 A) @ 50 Hz                                                                   | Using Standard Comparator (AITTS) by Comparison Method | 1 % to 120 %                                                                      | 2.5 minute                                       |
| 41   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | CT-VT Comparator / Bridge - Phase Error (63.5 V, 110 V) @ 50 Hz                                                              | Using Standard Comparator (AITTS) by Comparison Method | 2 % to 120 %                                                                      | 2.5 minute                                       |
| 42   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | CT-VT Comparator / Bridge - Ratio Error (1 A, 5 A) @ 50 Hz                                                                   | Using Standard Comparator (AITTS) by Comparison Method | 1 % to 120 %                                                                      | 0.03 %                                           |
| 43   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | CT-VT Comparator / Bridge - Ratio Error (63.5 V, 110 V) @ 50 Hz                                                              | Using Standard Comparator (AITTS) by Comparison Method | 2 % to 120 %                                                                      | 0.03 %                                           |



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| 44   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Current Transformer - Ratio Error (5 A/5 A -1 A to 3200 A/5 A-1 A) @ 50 Hz                                                  | Using Standard Current Transformer, Automatic Instrument Transformer Test Set by Comparison Method | 1 % to 120 %                                                                      | 0.036 % to 0.044 %                               |
| 45   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Current Transformer - Phase Error (5 A/5 A-1 A to 3200 A/5 A-1 A) @ 50 Hz                                                   | Using Standard Current Transformer, Automatic Transformer Test Set by Comparison Method            | 1 % to 120 %                                                                      | 2.5 minute                                       |
| 46   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | PD Calibrator - Charge                                                                                                      | Using PC Oscilloscope and Standard Resistance by Direct Method as per IEC 60270                    | 1 pC to 1000 pC                                                                   | 1.3 %                                            |
| 47   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | PD Calibrator - Pulse Repetition Time                                                                                       | Using PC Oscilloscope and Standard Resistance by Direct Method as per IEC 60270                    | 1 ms to 20 ms                                                                     | 0.70 %                                           |
| 48   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | PD Calibrator - Rise Time                                                                                                   | Using PC Oscilloscope and Standard Resistance by Direct Method as per IEC 60270                    | 10 ns to 150 ns                                                                   | 0.70 %                                           |



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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)(±) |
|------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 49   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Ratio (Impulse Voltage Divider)                                                                                             | Using Impulse Voltage Divider with Impulse Analyzer by Comparison Method as per IEC 60060-2: 2025    | 100 kVp to 500 kVp                                                                | 1.70 %                                           |
| 50   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Ratio (Impulse Voltage Divider)                                                                                             | Using Impulse Calibrator by Direct Method                                                            | 100 Vp to 1000 Vp                                                                 | 0.90 %                                           |
| 51   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | VA - CT Burden Box (5 A, 1 A) @ 50 Hz                                                                                       | Using 3 Phase Reference Standard by Direct Method                                                    | 1.25 VA to 30 VA                                                                  | 0.3 % to 0.4 %                                   |
| 52   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | VA - PT Burden Box (63.5 V, 110 V) @ 50 Hz                                                                                  | Using Three Phase Reference Standard by Direct Method                                                | 1.25 VA to 100 VA                                                                 | 0.3 % to 0.4 %                                   |
| 53   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Voltage / Potential Transformer - Phase Error (110 V/110 V to 3.3 kV/110 V) @ 50 Hz                                         | Using Standard Potential Transformer, Automatic Instrument Transformer Test Set by Comparison Method | 80 % to 120 %                                                                     | 3 minute                                         |



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** YASH METROLOGY LABORATORY PRIVATE LIMITED, 93 - E, SECTOR - 5, GANDHI NAGAR, CHITTAURGARH, RAJASTHAN, INDIA

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

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| 54   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Voltage / Potential Transformer - Phase Error (6.6 kV/110 V-63.5 V to 33 kV/110 V-63.5 V) @ 50 Hz                           | Using Standard Potential Transformer, Automatic Instrument Transformer Test Set by Comparison Method | 1 % to 120 %                                                                      | 3 minute                                         |
| 55   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Voltage / Potential Transformer - Ratio Error (110 V/110 V to 3.3 kV/110 V) @ 50 Hz                                         | Using Standard Potential Transformer, Automatic Instrument Transformer Test Set by Comparison Method | 80 % to 120 %                                                                     | 0.07 %                                           |
| 56   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Voltage / Potential Transformer - Ratio Error (6.6 kV/110 V-63.5 V to 33 kV/110 V-63.5 V) @ 50 Hz                           | Using Standard Potential Transformer, Automatic Instrument Transformer Test Set by Comparison Method | 2 % to 120 %                                                                      | 0.07 %                                           |



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| 57   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Voltage Transformer / Capacitive Voltage Transformer / Voltage Divider - Phase Error (132 kV/SQRT(3) / 110 V/SQRT(3) to 220 kV/SQRT(3) / 110 V/SQRT(3)) @ 50 Hz | Using Standard Potential Transformer, Comparator (AITTS) by Comparison Method                        | 1 % to 120 %                                                                      | 2.5 minute                                       |
| 58   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Voltage Transformer / Capacitive Voltage Transformer / Voltage Divider - Phase Error (66 kV/110 V-63.5 V to 132 kV/110 V-63.5 V) @ 50 Hz                        | Using Standard Potential Transformer, Automatic Instrument Transformer Test Set by Comparison Method | 1 % to 120 %                                                                      | 3 minute                                         |
| 59   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Voltage Transformer / Capacitive Voltage Transformer / Voltage Divider - Ratio Error (132 kV/SQRT(3) / 110 V/SQRT(3) to 220 kV/SQRT(3) / 110 V/SQRT(3)) @ 50 Hz | Using Standard Potential Transformer, Comparator (AITTS) by Comparison Method                        | 1 % to 120 %                                                                      | 0.07 %                                           |



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| 60   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | Voltage Transformer / Capacitive Voltage Transformer / Voltage Divider - Ratio Error (66 kV/110 V-63.5 V to 132 kV/110 V-63.5 V) @ 50 Hz | Using Standard Potential Transformere, Automatic Instrument Transformer Test Set by Comparison Method | 1 % to 120 %                                                                      | 0.07 %                                           |
| 61   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)  | Impulse Voltage (LI Front Time)                                                                                                          | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1                                | 0.84 $\mu$ s                                                                      | 1.8 %                                            |
| 62   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)  | Impulse Voltage (LI Tail Time)                                                                                                           | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1                                | 60 $\mu$ s                                                                        | 1.8 %                                            |
| 63   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)  | Impulse Voltage (LI)                                                                                                                     | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1                                | ( $\pm$ ) 50 Vp to ( $\pm$ ) 1000 Vp                                              | 0.76 %                                           |
| 64   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)  | Impulse Voltage (LIC Chopped Time)                                                                                                       | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1                                | 0.5 $\mu$ s                                                                       | 1.8 %                                            |



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|------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 65   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Impulse Voltage (LIC)                                                                                                       | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1             | (±) 100 Vp to (±) 1000 Vp                                                         | 0.9 %                                            |
| 66   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Impulse Voltage (SI Front Time)                                                                                             | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1             | 20 µs                                                                             | 1.8 %                                            |
| 67   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Impulse Voltage (SI Tail Time)                                                                                              | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1             | 4000 µs                                                                           | 1.8 %                                            |
| 68   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | Impulse Voltage (SI)                                                                                                        | Using Reference Impulse Calibrator by Direct Method as per IEC 61083-1             | (±) 50 Vp to (±) 1000 Vp                                                          | 0.76 %                                           |
| 69   | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source) | PD Amplifier - Frequency Response @ (0.1 V to 2 V)                                                                          | Using PC Oscilloscope by Direct Method                                             | 50 Hz to 1 MHz                                                                    | 0.8 %                                            |
| 70   | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)    | Frequency                                                                                                                   | Using 3 Phase Multifunction Standard Meter, Electronic Source by Comparison Method | 45 Hz to 65 Hz                                                                    | 0.033 % to 0.027 %                               |



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| 71   | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Frequency                                                                                                                   | Using 6½ DMM, Multifunction Calibrator by Comparison Method | 45 Hz to 1 kHz                                                                    | 0.05 %                                           |
| 72   | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time                                                                                                                        | Using Digital Time Calibrator by Comparison Method          | 10 s to 86400 s                                                                   | 0.23 s to 22 s                                   |

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