



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

CENTRAL POWER RESEARCH INSTITUTE (C P R I), PROF. SIR C. V. RAMAN ROAD,
SADASHIVNAGAR POST OFFICE, BENGALURU, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

NABLC0626KA04756

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Validity

10/06/2026 to 09/06/2030

Last Amended on

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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)(±) |
|--------------------|---|---|---|---|--|
| Permanent Facility | | | | | |
| 1 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz | Using Three Phase Comparator with Source by Comparison Method | 1 mA to 9.9 mA | 0.054 % |
| 2 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz | Using Three Phase Comparator with Source by Comparison Method | 10 mA to 120 A | 0.018 % to 0.013 % |
| 3 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 50 Hz | Using Three Phase Comparator with Source by Comparison Method | 30 V to 480 V | 0.015 % to 0.013 % |
| 4 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Harmonics in Current circuits Fundamental Frequency @ 50 Hz | Using Three Phase Comparator with Source by Comparison method | 2nd to 21st (5 A) | 0.3 % |



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|------|---|---|---|---|--|
| 5 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Harmonics in Voltage Circuit Fundamental Frequency @ 50 Hz | Using Three Phase Comparator With Source by Comparison Method | 2nd to 21st (240 V) | 0.3 % |
| 6 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Power Factor @ 50 Hz | Using Three Phase Comparator with Source by Comparison Method | 0.25 (Lead / Lag) PF to 1 | 0.00033 PF to 0.00035 PF |
| 7 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Single Phase, AC Active Energy @ 50 Hz (63.5 V to 240 V, 10 mA to 120 A, 0.25 (Lead / Lag) to 1) | Using Three Phase Comparator With Source by Comparison Method | 0.159 Wh to 28.8 kWh | 0.061 % to 0.015 % |
| 8 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Single Phase, AC Active Power @ 50 Hz (63.5 V to 240 V, 10 mA to 120 A, 0.25 (Lead / Lag) to 1) | Using Three Phase Comparator With Source by Comparison Method | 0.159 W to 28.8 kW | 0.064 % to 0.019 % |
| 9 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Single phase, AC Reactive Energy @ 50 Hz (63.5 V to 240 V, 10 mA to 120 A, 0.25 (Lead / Lag) to 1) | Using Three Phase Comparator With Source by Comparison Method | 0.159 VARh to 28.8 kVarh | 0.064 % to 0.015 % |



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|------|--|--|---|---|--|
| 10 | ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure) | Single Phase, AC Reactive Power @ 50 Hz (63.5 V to 240 V, 10 mA to 120 A, 0.25 (Lead / Lag) to 1) | Using Three Phase Comparator With Source by Comparison Method | 0.159 Var to 28.8 kVar | 0.064 % to 0.019 % |
| 11 | ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure) | Three Phase 4 Wire Active Energy @ 47.5 Hz to 52.5 Hz (63.5 V to 240 V, 0.05 A to 20 A, UPF, 0.5 Lag) | Using Three Phase Comparator with Source by Comparison Method | 4.7625 Wh to 14400 Wh | 0.032 % |
| 12 | ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure) | Three Phase 4 Wire Active Energy @ 50Hz (63.5 V to 240 V, 0.25 A to 60 A, UPF, 5th harmonics, 40% in Current & 10% in Voltage) | Using Three Phase Comparator With Source by Comparison Method | 47.625 Wh to 43200 Wh | 0.3 % |
| 13 | ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure) | Three Phase 4 Wire Active Energy @ 50Hz (30 V to 300 V, 10 A to 20 A, UPF, 0.5 Lag) | Using Three Phase Comparator With Source by Comparison Method | 450 Wh to 18000 Wh | 0.032 % |
| 14 | ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure) | Three Phase 4 Wire Reactive Energy @ 47.5 Hz to 52.5 Hz (63.5 V to 240 V, 0.05 A to 20 A, ZPF, 0.5 Lag) | Using Three Phase Comparator with Source by Comparison Method | 4.7625 VARh to 14400 VARh | 0.32 % |



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| 15 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Three Phase, 4 Wire AC Active Energy @ 50 Hz (63.5 V to 240 V, 10 mA to 120 A, 0.25 (Lead / Lag) to 1) | Using Three Phase Comparator With Source by Comparison Method | 0.476 Wh to 86.4 kWh | 0.061 % to 0.015 % |
| 16 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Three Phase, 4 Wire AC Active Power @ 50 Hz (63.5 V to 240 V, 10 mA to 120 A, 0.25 (Lead / Lag) to 1) | Using Three Phase Comparator With Source by Comparison Method | 0.476 W to 86.4 kW | 0.064 % to 0.015 % |
| 17 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Three Phase, 4 Wire AC Apparent Power @ 50 Hz (30 V to 240 V, 10 mA to 1 A , UPF) | Using Three Phase Comparator With Source by Comparison Method | 0.9 VA to 720 VA | 0.026 % to 0.015 % |
| 18 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Three Phase, 4 Wire AC Reactive Energy @ 50 Hz (63.5 V to 240 V, 10 mA to 120 A, 0.25 (Lead / Lag) to 1) | Using Three Phase Comparator with Source by Comparison Method | 0.476 Varh to 86.4 kWh | 0.064 % to 0.015 % |
| 19 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Three Phase, 4 Wire AC Reactive Power @ 50 Hz (63.5 V to 240 V, 10 mA to 120 A, 0.25 (Lead / Lag) to 1) | Using Three Phase Comparator With Source by Comparison Method | 0.476 Var to 86.4 kWh | 0.064 % to 0.015 % |



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| 20 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Frequency | Using Three Phase Comparator with Source by Comparison Method | 45 Hz to 65 Hz | 0.026 % |



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| Site Facility | | | | | |
| 1 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Current @ 50 Hz | Using Three Phase Portable Test System with Source by Comparison Method | 10 mA to 120 A | 0.034 % to 0.026 % |
| 2 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | AC Voltage @ 50 Hz | Using Three Phase Portable Test System with Source by Comparison Method | 30 V to 480 V | 0.028 % to 0.026 % |
| 3 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Harmonics in Current Circuit Fundamental Frequency @ 50 Hz | Using Three Phase Portable Test System With Source by Comparison Method | 2nd to 21st (1 A & 10 A) | 0.3 % |
| 4 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Harmonics in Voltage Circuit Fundamental Frequency @ 50 Hz | Using Three Phase Portable Test System With Source by Comparison Method | 2nd to 21st (240 V) | 0.3 % |



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| 5 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Power Factor @50 Hz | Using Three Phase Portable Test System With Source by Comparison Method | 0.25 (Lead / Lag) PF to 1 | 0.00039 PF to 0.00040 PF |
| 6 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Single Phase, AC Active Energy @ 50 Hz (63.5 V to 240 V, 10 mA to 120 A, 0.25 (Lead / Lag) to 1) | Using Three Phase Portable Test System With Source by Comparison Method | 0.159 Wh to 28.8 kWh | 0.064 % to 0.028 % |
| 7 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Single Phase, AC Active Power @ 50 Hz (63.5 V to 240 V, 10 mA to 120 A, 0.25 (Lead / Lag) to 1) | Using Three Phase Portable Test System With Source by Comparison Method | 0.159 W to 28.8 kW | 0.081 % to 0.038 % |
| 8 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Single phase, AC Reactive Energy @ 50 Hz (63.5 V to 240 V, 10 mA to 120 A, 0.25 (Lead / Lag) to 1) | Using Three Phase Portable Test System With Source by Comparison Method | 0.159 VARh to 28.8 kVarh | 0.064 % to 0.028 % |
| 9 | ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure) | Single Phase, AC Reactive Power @ 50 Hz (63.5 V to 240 V, 10 mA to 120 A, 0.25 (Lead / Lag) to 1) | Using Three Phase Portable Test System With Source by Comparison Method | 0.159 Var to 28.8 kVar | 0.081 % to 0.038 % |



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| 11 | ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure) | Three Phase, 4 Wire AC Active Power @ 50 Hz (63.5 V to 240 V, 10 mA to 120 A, 0.25 (Lead / Lag) to 1) | Using Three Phase Portable Test System With Source by Comparison Method | 0.476 W to 86.4 kW | 0.067 % to 0.028 % |
| 12 | ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure) | Three Phase, 4 Wire AC Reactive Energy @ 50 Hz (63.5 V to 240 V, 10 mA to 120 A, 0.25 (Lead / Lag) to 1) | Using Three Phase Portable Test System With Source by Comparison Method | 0.476 Varh to 86.4 kVarh | 0.068 % to 0.028 % |
| 13 | ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure) | Three Phase, 4 Wire AC Reactive Power @ 50 Hz (63.5 V to 240 V, 10 mA to 120 A, 0.25 (Lead / Lag) to 1) | Using Three Phase Portable Test System With Source by Comparison Method | 0.476 Var to 86.4 kVar | 0.067 % to 0.028 % |
| 14 | ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure) | Frequency | Using Three Phase Portable Test System with Source Comparison Method | 45 Hz to 65 Hz | 0.029 % |



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

