



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name CENTRAL POWER RESEARCH INSTITUTE(CPRI), CALIBRATION LABORATORY, PROF SIR CV RAMAN ROAD, SADASHIVNAGAR POST OFFICE, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2249 Page No. : 1 / 4

Validity 10/06/2019 to 09/06/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
Permanent Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Harmonics in Voltage and Current circuits (10% to 40%)	2nd to 21st (63.5V to 240 V)	0.015% to 0.015%	Three Phase Comparator, Direct/Comparison method
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	@50 Hz AC Reactive Power/Energy Single Phase/ Three Phase Sin Phi=0.25 lag/lead to 1	63.5 V to 240 V, 10 mA to 120 A, Sin0.25 to ZPF, 0.159 VAr to 86.4 kVAr	0.04% to 0.013%	Three Phase Comparator, Direct/Comparison method:
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	@50 Hz AC Active Power/Energy Single Phase/ Three Phase Cos Phi=0.25 lag/lead to 1	63.5 V to 240 V, 10 mA to 120 A, 0.25PF to UPF, 0.159 W to 86.4 kW	0.04% to 0.013%	Three Phase Comparator, Direct/Comparison method
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	@50 Hz AC Current Single Phase/Three Phase	10 mA to 120 A	0.015% to 0.011%	Three Phase Comparator, Direct/Comparison method:
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	@50 Hz AC Voltage Single Phase/Three Phase	30 V to 480 V	0.016% to 0.011%	Three Phase Comparator, Direct/Comparison method:
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	@50Hz Power Factor Single Phase/Three Phase	Cos/SinPhi=0.25 lg/ld to 1	0.0022PF to 0.00014PF	Three Phase Comparator, Direct/Comparison method:



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
7	ELECTRO- TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	45 Hz to 65 Hz	0.016% to 0.014%	Three Phase Comparator, Direct/Comparison method:



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
Site Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	@50 Hz AC Current Single Phase/Three Phase	10 mA to 120 A	0.026% to 0.013%	Three Phase Portable Test System, Direct /Comparison Method
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	@50 Hz AC Voltage Single Phase/Three Phase	30 V to 480 V	0.02% to 0.014%	Three Phase Portable Test System, Direct/Comparison method:
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	@50 Hz AC Active Power/Energy Single Phase/ Three Phase Cos Phi=0.25 lag/lead to 1	63.5 V to 240 V, 10 mA to 120 A , 0.25 PF to UPF, 0.159 W to 86.4 kW	0.05% to 0.031%	Three Phase Portable Test System, Direct/Comparison method
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	@50 Hz Power Factor Single Phase/Three Phase	Cos/SinPhi=0.25lg/ld to 1	0.0022PF to 0.00014PF	Three Phase Portable Test System, Direct/Comparison method:
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	@50Hz AC Reactive Power/Energy Single Phase/ Three Phase Sin Phi = 0.25 lag/lead to 1	63.5 V to 240 V, 10 mA to 120 A , Sin0.25 to ZPF, 0.159 VAr to 86.4 kVAr	0.05% to 0.031%	Three Phase Portable Test System, Direct/Comparison method:
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Harmonics in voltage and current circuit(10% to 40%)	2nd to 21st (63.5 V to 240 V)	0.027% to 0.027%	Three Phase Portable Test System, Direct/Comparison method:



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
7	ELECTRO- TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	45 Hz to 65 Hz	0.03% to 0.022%	Three Phase Portable Test System, Direct/Comparison method: