National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : LABORATORY DIVISION - HEPTACARE POWER INDUSTRIES PRIVATE LIMITED, A-9 / A-10, UDYOG PURAM, PARTAPUR, MEERUT, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 04/02/2023 to 03/02/2025 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer up to 220 kV	Measurement of Capacitance & Dielectric Dissipation Factor	IEC 61869-1 (Clause 7.4.3)
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer up to 220 kV	Measurement of Capacitance & Dielectric Dissipation Factor	IS 16227 (Part 1, Clause 7.4.3)
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Measurement of Knee Point Voltage and Exciting Current	IS 16227 (Part 2, Clause 7.3.203)
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Partial Discharge Test	IS 16227 (Part 1, Clause 7.3.2)
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Instrument Security Factor of Measuring Current Transformer	IEC 61869-2 (Clause 7.2.6.202)
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Instrument Security Factor of Measuring Current Transformers	IS 16227 (Part 2, Clause 7.2.6.202)
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Inter-turn Over-voltage Test	IEC 61869-2 (Clause 7.3.204)
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Inter-turn Over-voltage Test	IS 16227 (Part 2, Clause 7.3.204)
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Measurement of Capacitance & Dielectric Dissipation Factor	IEC 61869-1 (Clause 7.4.3)
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Measurement of Capacitance & Dielectric Dissipation Factor	IS 16227 (Part 1, Clause 7.4.3)
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Measurement of Composite Error	IEC 61869-2 (Clause 7.2.6.203 & 7.3.5.203)
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Measurement of Composite Error	IS 16227 (Part 2, Clause 7.2.6.203 & 7.3.5.203)
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Measurement of Knee Point Voltage and Exciting Current	IEC 61869-2 (Clause 7.3.203)
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Measurement of Secondary Winding Resistance	IEC 61869-2 (Clause 7.3.201)
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Measurement of Secondary Winding Resistance	IS 16227 (Part 2, Clause 7.3.201)
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Partial Discharge Test	IEC 61869-1 (Clause 7.3.2)
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Power Frequency Voltage Withstand Tests on Primary Terminals	IEC 61869-2 (Clause 7.3.1)

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18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Power Frequency Voltage Withstand Tests on Primary Terminals	IS 16227 (Part 2, Clause 7.3.1)
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Power Frequency Voltage Withstand Tests on Secondary Terminals & Between Sections	IEC 61869-1 (Clause 7.3.3 & 7.3.4)
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Power Frequency Voltage Withstand Tests on Secondary Terminals & Between Sections	IS 16227 (Part 1, Clause 7.3.3 & 7.3.4)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Temperature Coefficient Test	IEEMA - 22 - 2005 (Clause 8-b)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Thermal Stability Test	IEEMA - 22 - 2005 (Clause 8-a)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Verification of Terminal Marking and Polarity	IEC 61869-1 (Clause 7.3.6)
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV	Verification of Terminal Marking and Polarity	IS 16227 (Part 1, Clause 7.3.6)
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV (1 A to 3000 A / .577-1-5 A)	Determination of Errors According to the Requirements of the Appropriate Designation or Accuracy Class (PX Class)	IEC 61869-2 (Clause 7.3.5 & 7.2.6)
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV (1 A to 3000 A / .577-1-5 A)	Determination of Errors According to the Requirements of the Appropriate Designation or Accuracy Class (PX Class)	IS 16227 (Part 2, Clause 7.3.5 & 7.2.6)
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV (1 A to 3000 A / 1-5 A)	Determination of Errors According to the Requirements of the Appropriate Designation or Accuracy Class (Metering Class Core 0.2S, 0.5S, 0.2, 0.5 & 1)	IEC 61869-2 (Clause 7.3.5 & 7.2.6)
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV (1 A to 3000 A / 1-5 A)	Determination of Errors According to the Requirements of the Appropriate Designation or Accuracy Class (Metering Class Core 0.2S, 0.5S, 0.2, 0.5 & 1)	IS 16227 (Part 2, Clause 7.3.5 & 7.2.6)
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV (1 A to 3000 A / 1-5 A)	Determination of Errors According to the Requirements of the Appropriate Designation or Accuracy Class (Metering Class Core 0.2S, 0.5S, 0.2, 0.5 & 1)	IS 16227 (Part 2, Clause 7.3.5 & 7.2.6)

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30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV (1 A to 3000 A / 1-5 A)	Determination of Errors According to the Requirements of the Appropriate Designation or Accuracy Class (Protection Class Core 5P, 10P)	IEC 61869-2 (Clause 7.3.5 & 7.2.6)
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV (1 A to 3000 A / 1-5 A)	Determination of Errors According to the Requirements of the Appropriate Designation or Accuracy Class (Protection Class Core 5P, 10P)	IEC 61869-2 (Clause 7.3.5 & 7.2.6)
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV (1 A to 3000 A / 1-5 A)	Determination of Errors According to the Requirements of the Appropriate Designation or Accuracy Class (Protection Class Core 5P, 10P)	IS 16227 (Part 2, Clause 7.3.5 & 7.2.6)
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV (1 A to 3000 A / 1-5 A)	Determination of Errors According to the Requirements of the Appropriate Designation or Accuracy Class (Protection Class Core 5P, 10P)	IS 16227 (Part 2, Clause 7.3.5 & 7.2.6)
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV (1 A to 3000 A / 1-5A)	Determination of Errors According to the Requirements of the Appropriate Designation or Accuracy Class (Metering Class Core 0.2S, 0.5S, 0.2, 0.5 & 1)	IEC 61869-2 (Clause 7.3.5 & 7.2.6)
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV (1A to 3000A)	Temperature Rise Test	IEC 61869-2 (Clause 7.2.2 & 6.4.1)
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 220 kV (1A to 3000A)	Temperature Rise Test	IS 16227 (Part 2, Clause 7.2.2 & 6.4.1)
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Determination of Errors According to the Requirements of the Appropriate Designation or Accuracy Class (Metering Class Core 0.2, 0.5, 1 & 3)	IEC 61869-3 (Clause 7.3.5 & 7.2.6)
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Determination of Errors According to the Requirements of the Appropriate Designation or Accuracy Class (Metering Class Core 0.2, 0.5, 1 & 3)	IS 16227 (Part 3, Clause 7.3.5 & 7.2.6)

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39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Determination of Errors According to the Requirements of the Appropriate Designation or Accuracy Class (Protection Class Core 3P & 6P)	IEC 61869-3 (Clause 7.3.5 & 7.2.6)
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Determination of Errors According to the Requirements of the Appropriate Designation or Accuracy Class (Protection Class Core 3P & 6P)	IS 16227 (Part 3, Clause 7.3.5 & 7.2.6)
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Induced over voltage withstand test on Primary Terminals from 100Hz to 150Hz	IEC 61869-3 (Clause 7.3.1)
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Induced Over Voltage Withstand Test on Primary Terminals from 100Hz to 150Hz	IS 16227 (Part 3, Clause 7.3.1)
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Measurement of Capacitance & Dielectric Dissipation Factor	IEC 61869-3 (Clause 7.4.3)
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Measurement of Capacitance & Dielectric Dissipation Factor	IS 16227 (Part 3, Clause 7.4.3)
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Partial Discharge Test	IEC 61869-3 (Clause 7.3.2)
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Partial Discharge Test	IS 16227 (Part 3, Clause 7.3.2)
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Power Frequency Voltage Withstand Test on Secondary Terminals & Between Sections	IEC 61869-1 (Clause 7.3.3 & 7.3.4)
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Power Frequency Voltage Withstand Test on Secondary Terminals & Between Sections	IS 16227 (Part 1, Clause 7.3.3 & 7.3.4)
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Separate Source Withstand Test	IEC 61869-3 (Clause 7.3.1)
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Separate Source Withstand Test	IS 16227 (Part 3, Clause 7.3.1)
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Temperature Rise Test	IEC 61869-3 (Clause 7.2.2 & 6.4.1)
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Temperature Rise Test	IS 16227 (Part 3, Clause 7.2.2 & 6.4.1)
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Verification of Terminal Marking and Polarity	IEC 61869-1 (Clause 7.3.6)

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54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer up to 220 kV	Verification of Terminal Marking and Polarity	IS 16227 (Part 1, Clause 7.3.6)