National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CHHATTISGARH STATE POWER DISTRIBUTION COMPANY LIMITED, CENTRAL TESTING LABORATORY DIVISION, BHILAI 220 KV SUB-STATION ROAD, BIJALI NAGAR, BHILAI-3, BHILAI, DURG, CHHATTISGARH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 04/06/2021 to 03/06/2023 **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- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Var - Hour Meter (Class 0.2 S, 0.5 S and 1.0 s)	Limits of error due to variation of current (Active/ Reactive)	IS 14697 (Clause 11.1)
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watt-hour and Var - Hour Meter (Class 0.2 S, 0.5 S and 1.0 s)	No-Load condition (For 0.5 Lagging, Unity, 0.5 Leading Power factor, 50 Hz)	IS 14697 (Clause 12.12)
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated watt-hour and Var - Hour Meter (Class 0.2 S, 0.5 S and 1.0 s)	Power Consumption Test	IS 14697 (Clause 9.1.1)
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watt-hour and Var - Hour Meter (Class 0.2 S, 0.5 S and 1.0 s)	Repeatability of Error	IS 14697 (Clause 12.16)
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated watt-hour and Var-Hour Meter (Class 0.2 S, 0.5 S and 1.0 s)	Limits of error due to other influence quantities-voltage variation	IS 14697 (Clause 11.2)
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watt-hour and Var-Hour Meter (Class 0.2 S, 0.5 S and 1.0 s)	Power Consumption Test	IS 14697 (Clause 9.1.2)
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watt-hour Meter (Class 0.2 S, 0.5 S and 1.0 s)	Limits of error due to variation of current	IS 14697 (Clause 11.1)
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and Var - Hour Meter (Class 0.2 S, 0.5 S and 1.0 s)	Meter Constant	IS 14697 (Clause 12.14)
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and Var - Hour Meter (Class 0.2 S, 0.5 S and 1.0 s)	Starting Condition (Unity Power factor, 50 Hz)	IS 14697 (Clause 12.14)
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt-hour meter (Class 1 and 2)	Limits of error due to other influence quantities-voltage variation	IS 13779 (Clause 11.2)

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11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt-hour Meter (Class 1 and 2)	Limits of error due to variation of current (Active/ Reactive)	IS 13779 (Clause 11.1)
12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt-hour meter (Class 1 and 2)	Meter Constant	IS 13779 (Clause 12.15)
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt-hour meter (Class 1 and 2)	No-Load condition	IS 13779 (Clause 12.13)
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt-hour meter (Class 1 and 2)	Power Consumption Test	IS 13779 (Clause 9.1.1)
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt-hour meter (class 1 and 2)	Repeatability of Error	IS 13779 (Clause 12.17)
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt-hour meter (class 1 and 2)	Starting Condition (Unity Power factor, 50 Hz)	IS 13779 (Clause 12.14)
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt-hour meter (Class 1)	Power Consumption Test	IS 13779 (Clause 9.1.2)
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt-hour meter (class 2)	Power Consumption Test	IS 13779 (Clause 9.1.2)
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Phase to Phase voltage i.e. 450 volts is supplied for 5 minutes between phase and neutral of the meter, the meter should not get damaged and continue to record correctly within class 1 accuracy after restoration of normal supply	As per SOP No. 3.9 of CSPDCL Center Testing Laboratory Division, Bhilai-2019

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20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test for External AC Magnetic influence- Effect on accuracy or accuracy display under normal conditions by placement of abnormal AC Magnetic of external origin (0.5 mT) on the meter without meter box	CBIP Tech. Report-325
21	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of External DC Magnetic influence- Effect on accuracy or accuracy display under normal conditions by placement of abnormal DC Magnetic of External origin (0.27 Tesla) on the meter without meter box	CBIP Tech. Report-325
22	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of influence quantities voltage variation	IS 13779
23	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of influence quantities voltage variation	IS 14697
24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of influence quantity (variation of frequency)	IS 14697
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of influence quantity (10% of 3rd Harmonic in the current circuit)	IS 13779
26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of influence quantity (10% of 3rd Harmonic in the current circuit)	IS 14697
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of influence quantity (variation of frequency)	IS 13779
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of Power consumption	IS 13779

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29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of Power consumption	IS 14697