



National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**CHHATTISGARH STATE POWER DISTRIBUTION  
COMPANY LIMITED, CENTRAL TESTING LABORATORY  
DIVISION**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at

**BHILAI 220 KV SUB-STATION ROAD, BIJALI NAGAR, BHILAI-3,, BHILAI, DURG, CHHATTISGARH,  
INDIA**

in the field of

**TESTING**

Certificate Number: TC-8192

Issue Date: 04/06/2023

Valid Until: 03/06/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Identity : CHHATTISGARH STATE POWER DISTRIBUTION COMPANY LIMITED

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	CHHATTISGARH STATE POWER DISTRIBUTION COMPANY LIMITED, CENTRAL TESTING LABORATORY DIVISION, BHILAI 220 KV SUB-STATION ROAD, BIJALI NAGAR, BHILAI-3,, BHILAI, DURG, CHHATTISGARH, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
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<b>Validity</b>	04/06/2023 to 03/06/2025	<b>Last Amended on</b>	07/06/2023

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)	AC High Voltage Test	IS 14697 (Clause 12.7.6.3)
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)	No-Load condition ( For 0.5 Lagging, Unity, 0.5 Leading Power factor, 50 Hz)	IS 14697 (Clause 12.12)
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)	Power Consumption Test	IS 14697 (Clause 9.1.1)
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)	Repeatability of Error	IS 14697 (Clause 12.16)
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)	Limits of error due to other influence quantities-voltage variation	IS 14697 (Clause 11.2)
7	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)	Meter Kept in oven at 65 degree C for 30 min and then at 80 degree C for 30 min	As per SOP No. CSPDCL/CTLD/LAB/SOP/02 of CSPDCL Center Testing Laboratory Division, Bhilai-2022
8	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)
9	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)
10	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)



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11	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)
12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt-hour meter (Class 1 & 2)	Power Consumption Test	IS 13779 (Clause 9.1.2)
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt-hour meter (Class 1 and 2)	AC high voltage test	IS 13779 (Clause 12.7.6.3)
14	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)
15	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)
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt-hour meter (Class 1 and 2)	Meter Constant	IS 13779 (Clause 12.15)
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt-hour meter (Class 1 and 2)	No-Load condition	IS 13779 (Clause 12.13)
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt-hour meter (Class 1 and 2)	Power Consumption Test	IS 13779 (Clause 9.1.1)
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt-hour meter (class 1 and 2)	Repeatability of Error	IS 13779 (Clause 12.17)
20	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)



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21	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
22	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
23	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
24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of influence quantities voltage variation	IS 13779
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of influence quantities voltage variation	IS 14697
26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of influence quantity (variation of frequency)	IS 14697
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of influence quantity (10% of 3rd Harmonic in the current circuit)	IS 13779
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of influence quantity (10% of 3rd Harmonic in the current circuit)	IS 14697



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29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of influence quantity (variation of frequency)	IS 13779
30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of Power consumption	IS 13779
31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Energy Meters	Test of Power consumption	IS 14697