



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: 04/06/2025

Valid Until: 03/06/2029

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 Entity: CHHATTISGARH STATE POWER DISTRIBUTION COMPANY LIMITED

Signed for and on behalf of NABL



Anuja Anand  
Director

N. Venkateswaran  
Chief Executive Officer



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## 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** 04/06/2025 to 03/06/2029

**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 Testing				
1	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watt-Hour Smart meter (Class :1 & 2)	AC high voltage test	CL. No. 6.10.6 of IS 16444(Part 1)
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watt-Hour Smart meter (Class :1 & 2)	Insulation Resistance Test	CL. No. 6.10.6 of IS 16444(Part 1)
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watt-Hour Smart meter (Class :1 & 2)	Limits of Error due to other Influence Quantities (10% of 3rd harmonic in current circuit)	CL. No. 6.12 of IS 16444(Part 1)
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watt-Hour Smart meter (Class :1 & 2)	Limits of Error due to other Influence Quantities (Frequency Variation)	CL. No. 6.12 of IS 16444(Part 1)
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watt-Hour Smart meter (Class :1 & 2)	Limits of Error due to other Influence Quantities (Voltage Variation)	CL. No. 6.12 of IS 16444(Part 1)
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watt-Hour Smart meter (Class :1 & 2)	Limits of Error due to variation of current	CL. No. 6.12 of IS 16444(Part 1)
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watt-Hour Smart meter (Class :1 & 2)	Test of Meter Constant / Registration	CL. No. 6.12 of IS 16444(Part 1)
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watt-Hour Smart meter (Class :1 & 2)	Test of No Load Condition	CL. No. 6.12 of IS 16444(Part 1)
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watt-Hour Smart meter (Class :1 & 2)	Test of Power Consumption (Current Circuit)	CL. No. 6.10.1.2 of IS 16444(Part - 1)
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watt-Hour Smart meter (Class :1 & 2)	Test of Repeatability of Errors	CL. No. 6.12 of IS 16444(Part 1)
11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Direct Connected Watt-Hour Smart meter (Class :1 & 2)	Test of Starting Condition	CL. No. 6.12 of IS 16444(Part 1)



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12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Meter :0.5s ,0.2s & 1s	AC high voltage test	CL. No. 9.5 & 12.7.6.3 of IS 14697
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Meter :0.5s ,0.2s & 1s	External AC / DC magnetic Influence	CBIP Tech. Report - 325
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Meter :0.5s ,0.2s & 1s	Insulation Resistance Test	CL. No. 9.5 & 12.7.6.4 of IS 14697
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Meter :0.5s ,0.2s & 1s	Limits of Error due to Influence Quantity (Voltage Variation)	CL. No. 11.2 & 12.10 of IS 14697
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Meter :0.5s ,0.2s & 1s	Limits of Error due to other Influence Quantities(10% of 3rd harmonic in current circuit)	CL. No. 11.2 & 12.10 of IS 14697
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Meter :0.5s ,0.2s & 1s	Limits of Error due to other Influence Quantity(Frequency Variation)	CL. No. 11.2 & 12.10 of IS 14697
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Meter :0.5s ,0.2s & 1s	Limits of Error due to variation of current	CL. No. 11.1 & 12.9.1 of IS 14697
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Meter :0.5s ,0.2s & 1s	Test of Meter Constant / Registration	CL. No. 11.6 & 12.14 of IS 14697
20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Meter :0.5s ,0.2s & 1s	Test of No Load Condition	CL. No. 11.4 & 12.12 of IS 14697:2021
21	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Meter :0.5s ,0.2s & 1s	Test of Power Consumption(Current Circuit)	CL. No. 9.1.2 & 12.7.1 of IS 14697
22	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Meter :0.5s ,0.2s & 1s	Test of Power Consumption(Voltage Circuit)	CL. No. 9.1.1 & 12.7.1 of IS 14697





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23	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Meter :0.5s ,0.2s & 1s	Test of Power Consumption(Voltage Circuit)	CL. No. 9.1.1 & 12.7.1 of IS 14697
24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Meter :0.5s ,0.2s & 1s	Test of Repeatability of Errors	CL. No. 11.7 & 12.16 of IS 14697
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Meter :0.5s ,0.2s & 1s	Test of Starting Condition	CL. No. 11.5 & 12.13 of IS 14697
26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Smart Meter :0.5s ,0.2s & 1s	AC high voltage test	CL. No. 6.10.6 of IS 16444(Part - 2)
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Smart Meter :0.5s ,0.2s & 1s	Insulation Resistance Test	CL. No. 6.10.6 of IS 16444(Part - 2)
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Smart Meter :0.5s ,0.2s & 1s	Limits of Error due to other Influence Quantities ( Voltage Variation )	CL. No. 6.12 of IS 16444(Part - 2)
29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Smart Meter :0.5s ,0.2s & 1s	Limits of Error due to other Influence Quantities ( Frequency Variation )	CL. No. 6.12 of IS 16444(Part - 2)
30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Smart Meter :0.5s ,0.2s & 1s	Limits of Error due to other Influence Quantities (10% of 3rd harmonic in current circuit)	CL. No. 6.12 of IS 16444(Part - 2)
31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Smart Meter :0.5s ,0.2s & 1s	Limits of Error due to variation of current	CL. No. 6.12 of IS 16444(Part - 2)
32	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Smart Meter :0.5s ,0.2s & 1s	Test of Meter Constant / Registration	CL. No. 6.12 of IS 16444(Part - 2)
33	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Smart Meter :0.5s ,0.2s & 1s	Test of No Load Condition	CL. No. 6.12 of IS 16444(Part - 2)



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34	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Smart Meter :0.5s ,0.2s & 1s	Test of Power Consumption (Current Circuit)	CL. No. 6.10.1.2 of IS 16444(Part - 2)
35	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Smart Meter :0.5s ,0.2s & 1s	Test of Repeatability of Errors	CL. No. 6.12 of IS 16444(Part - 2)
36	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer Operated Watt-Hour & Var-Hour Smart Meter :0.5s ,0.2s & 1s	Test of Starting Condition	CL. No. 6.12 of IS 16444(Part - 2)
37	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	AC high voltage test	CL No. 9.5 & 12.7.6.3 of IS 13779
38	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	Dry Heat Test	As per SOP No. 6 of CSPDCL/CTLD/LAB/SOP/02 of CSPDCL Central Testing Laboratory Division , Bhilai-2022
39	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	External AC / DC magnetic Influence	CBIP Tech. Report - 325
40	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	Insulation Resistance Test	CL No. 9.5 & 12.7.6.4 of IS 13779
41	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	Limits of Error due to other Influence Quantities( 10% of 3rd harmonic in current circuit)	CL No. 11.2 & 12.10.1 of IS 13779
42	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	Limits of Error due to other Influence Quantities( Frequency Variation )	CL No. 11.2 & 12.10.1 of IS 13779
43	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	Limits of Error due to other Influence Quantities( Voltage Variation)	CL No. 11.2 & 12.10.1 of IS 13779
44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	Limits of Error due to variation of current	CL No. 11.1 & 12.10.1 of IS 13779



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45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	Phase to Phase Voltage Test	As per SOP No. 3.9 Of CSPDCL Central Testing Laboratory Division , Bhilai-2019
46	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	Test of Meter Constant / Registration	CL No. 11.6 & 12.15 of IS 13779
47	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	Test of No Load Condition	CL No. 11.4 & 12.13 of IS 13779
48	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	Test of Power Consumption(Current Circuit)	CL No. 9.1.2 & 12.7.1 of IS 13779
49	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	Test of Power Consumption(Voltage Circuit)	CL No. 9.1.1 & 12.7.1 of IS 13779
50	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	Test of Power Consumption(Voltage Circuit)	CL No. 9.1.1 & 12.7.1 of IS 13779
51	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	Test of Repeatability of Errors	CL No. 11.7 & 12.17 of IS 13779
52	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watt - hour meter (Class :1 & 2)	Test of Starting Condition	CL No. 11.5 & 12.14 of IS 13779