



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	1 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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	CHEMICAL-PETROLEUM AND PRODUCTS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance.	Resistivity @ 90°C	IS 1866:2017/IEC 60422:2013 , IEC 60247
2	CHEMICAL-PETROLEUM AND PRODUCTS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Acidity (neutralization value)	IS 1866:2017 / IEC 60422:2013, IEC 62021-1 2003/ IEC 62021-2
3	CHEMICAL-PETROLEUM AND PRODUCTS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Appearance	IS 1866:2017 / IEC 60422:2013, ISO 2049
4	CHEMICAL-PETROLEUM AND PRODUCTS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Density	IS 1866:2017 / IEC 60422:2013, ISO 3675
5	CHEMICAL-PETROLEUM AND PRODUCTS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Flash Point	IS 1866:2017 / IEC 60422:2013, ISO 2719 - A
6	CHEMICAL-PETROLEUM AND PRODUCTS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Interfacial Tension (IFT)	IS 1866:2017 / IEC 60422:2013, ASTM D971
7	CHEMICAL-PETROLEUM AND PRODUCTS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Particles (counting and sizing)	IS 1866:2017 / IEC 60422:2013, IEC 60970 2007, ISO 4406
8	CHEMICAL-PETROLEUM AND PRODUCTS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Sediment Sludge	IS 1866:2017 / IEC 60422:2013, Annex C of IS 1866:2017 / IEC 60422:
9	CHEMICAL-PETROLEUM AND PRODUCTS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Viscosity	IS 1866:2017 / IEC 60422:2013, ISO 3104
10	CHEMICAL-PETROLEUM AND PRODUCTS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance.	Breakdown Voltage	IS 1866:2017/IEC 60422:2013 , IEC 60156
11	CHEMICAL-PETROLEUM AND PRODUCTS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance.	Dielectric Dissipation Factor (DDF) @ 90 °C.	IS 1866:2017/IEC 60422:2013 , IEC 60247



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	2 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
12	CHEMICAL-PETROLEUM AND PRODUCTS	Mineral Insulating Oil in Electrical Equipment supervision and Maintenance Guidance.	Water Content	IS 1866:2017/IEC 60422:2013 , IEC 60814
13	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oil	Breakdown Voltage	IS 335:2018, IEC 60296:2020, IS 6792:2023, IEC 60156:1995, IEC 60156
14	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Acidity	IS 335-2018, IEC 60296-2012 , IEC 62021-1
15	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Appearance	IS 335-2018, IEC 60296
16	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Density at 20°C	IS 335-2018, IEC 60296-2020, IS 1448 (Part 16) 2014, ISO 3675
17	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Dielectric Dissipation Factor (DDF) @ 90°C	IS 335:2018 , IEC 60296:2020, IS 16086:2013 , IEC 60247:2004 , IEC 61620:1998, IS 16840
18	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Flash Point	IS 335-2018, IEC 60296-2020, IS 1448 (Part 21) - A 2019, ISO 2719 - A
19	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Interfacial Tension	IS 335-2018, IEC 60296-2020, ASTM D971
20	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Particle Content	IS 335-2018, IEC 60296-2020, IS 13236 : 2013 /IEC 60970
21	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Viscosity * at 40°C	IS 335-2018, IEC 60296-2020, IS 1448 (Part 25/Sec 1) 2018, ISO 3104
22	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils.	Water Content	IS 335:2018 , IEC 60296:2020, IEC 60814



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	3 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
23	CHEMICAL-PETROLEUM AND PRODUCTS	Oil filled Electrical Equipment	Dissolved Gas Analysis/ Gas Content CH ₄	IS 9434 2019, IEC 60567 2011, IS 10593 2018, IEC 60599 2015, IS 16085 2013, IEC 61181 2007, ASTM D3612 2009, (Method C)/ IEEE Std C57.106
24	CHEMICAL-PETROLEUM AND PRODUCTS	Oil filled Electrical Equipment	Dissolved Gas Analysis/ Gas Content C ₂ H ₆	IS 9434 2019, IEC 60567 2011, IS 10593 : 2018, IEC 60599 2015, IS 16085 2013, IEC 61181 2007, ASTM D3612 2009 (Method C)/ IEEE Std C57.106
25	CHEMICAL-PETROLEUM AND PRODUCTS	Oil filled Electrical Equipment	Dissolved Gas Analysis/ Gas Content C ₃ H ₆	IS 9434 2019, IEC 60567 2011, IS 10593 : 2018, IEC 60599 2015, IS 16085 2013, IEC 61181 2007, ASTM D3612 2009 (Method C)/ IEEE Std C57.106
26	CHEMICAL-PETROLEUM AND PRODUCTS	Oil filled Electrical Equipment	Dissolved Gas Analysis/ Gas Content TDCG	IS 9434 2019, IEC 60567 2011, IS 10593 : 2018, IEC 60599 2015, IS 16085 2013, IEC 61181 2007, ASTM D3612 2009 (Method C)/ IEEE Std C57.106
27	CHEMICAL-PETROLEUM AND PRODUCTS	Oil filled Electrical Equipment	Dissolved Gas Analysis/ Gas Content C ₂ H ₂	IS 9434 2019, IEC 60567 2011, IS 10593 : 2018, IEC 60599 2015, IS 16085 2013, IEC 61181 2007, ASTM D3612 2009 (Method C)/ IEEE Std C57.106



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	4 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
28	CHEMICAL- PETROLEUM AND PRODUCTS	Oil filled electrical equipment	Dissolved Gas Analysis/ Gas Content CO	IS 9434 2019, IEC 60567 2011, IS 10593 : 2018, IEC 60599 2015, IS 16085 2013, IEC 61181 2007, ASTM D3612 2009 (Method C)/ IEEE Std C57.106
29	CHEMICAL- PETROLEUM AND PRODUCTS	Oil filled electrical equipment	Dissolved Gas Analysis/ Gas Content H2	IS 9434 2019, IEC 60567 2011, IS 10593 : 2018, IEC 60599 2015, IS 16085 2013, IEC 61181 2007, ASTM D3612 2009 (Method C)/ IEEE Std C57.106
30	CHEMICAL- PETROLEUM AND PRODUCTS	Oil filled electrical equipment	Dissolved Gas Analysis/ Gas Content N2	IS 9434 2019, IEC 60567 2011, IS 10593 : 2018, IEC 60599 2015, IS 16085 2013, IEC 61181 2007, ASTM D3612 2009 (Method C)/ IEEE Std C57.106
31	CHEMICAL- PETROLEUM AND PRODUCTS	Oil filled electrical equipment	Dissolved Gas Analysis/ Gas Content O2	IS 9434 2019, IEC 60567 2011, IS 10593 : 2018, IEC 60599 2015, IS 16085 2013, IEC 61181 2007, ASTM D3612 2009 (Method C)/ IEEE Std C57.106
32	CHEMICAL- PETROLEUM AND PRODUCTS	Oil filled electrical equipment	Dissolved Gas Analysis/ Gas Content TGC	IS 9434 2019, IEC 60567 2011, IS 10593 : 2018, IEC 60599 2015, IS 16085 2013, IEC 61181 2007, ASTM D3612 2009 (Method C)/ IEEE Std C57.106



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	5 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
33	CHEMICAL- PETROLEUM AND PRODUCTS	Oil filled Electrical Equipment.	Dissolved Gas Analysis/ Gas Content C ₂ H ₄	IS 9434 2019, IEC 60567 2011, IS 10593 : 2018, IEC 60599 2015, IS 16085 2013, IEC 61181 2007, ASTM D3612 2009 (Method C)/ IEEE Std C57.106
34	CHEMICAL- PETROLEUM AND PRODUCTS	Oil filled electrical equipment.	Dissolved Gas Analysis/ Gas Content CO ₂ .	IS 9434 2019, IEC 60567 2011, IS 10593 : 2018, IEC 60599 2015, IS 16085 2013, IEC 61181 2007, ASTM D3612 2009 (Method C)/ IEEE Std C57.106 :
35	CHEMICAL- PETROLEUM AND PRODUCTS	Oil filled electricals equipment	Dissolved Gas Analysis/ Gas Content C ₃ H ₈	IS 9434 2019, IEC 60567 2011, IS 10593 : 2018, IEC 60599 2015, IS 16085 2013, IEC 61181 2007, ASTM D3612 2009 (Method C)/ IEEE Std C57.106
36	ELECTRICAL- CABLES & WIRES	CABLE ACCESSORIES FOR EXTRUDED POWER CABLES, PVC Insulated Electric Cables, Cross Linked Polyethylene Insulated Thermoplastic & PVC Sheathed Cables,	Short Circuit Tests	IS 13573 : Part 1 : 2011; IS 13573 : Part 2 : 2011; IS 13573 : Part 3 : 2011; IS 1554 : Part 1 : 1988; IS 1554 : Part 2 : 1988; IS 7098 : Part 2 : 2011; IS 5819 : 1970; CPRI Doc. No. TOP-02 issue No. 5:
37	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Stray d.c. magnetic induction of external origin 67mT	IS13779:1999 A.1 to 5Cl. Cl 12.11 (Withdrawn), CBIP-325:2015 Cl.5.6.2.2, IS16444(Part 1):2015A.1&2 Cl.6.12, IS13779:2020 Cl.12.11,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	6 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
38	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Dielectric strength	IS15884:2010 Cl.G8,IS16444 (Part 1): 2015 A.1, 2 Cl.7.2,IEC62055 -31, Cl. Annex C 8
39	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Short circuit current carrying capacity	IS15884:2010 Cl.G6, IS16444 (Part 1): 2015 A.1 and 2 Cl.7.2,IEC62055 -31:2022,Cl. Annex C6
40	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Minimum Switched Current	IS15884,2010 Cl. G7 IS 16444 (Part 1): 2015 Cl. 7.2 A.1 and 2 IEC 62055 -31, Cl Annex C7
41	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Normal Operation	IS15884:2010 Cl.G2,IS16444 (Part 1): 2015 A.1,2Cl.7.2,IEC62055 -31:2022, Cl. Annex C2
42	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Test for Smart Meter Communicability	IS16444 (Part 1): 2015 A.1 and 2 Cl.10.6.2
43	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Direct Connected Watthour Smart Meter Class 1 and Class 2	Smart Meter Functional Requirements	Cl.11 ofIS 16444 (Part 1)- 2015 Amd 1 -2017 Amd 2 -2019:
44	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer operated Watthour and Var-hour Smart Meters Class 0.2S,0.5S and 1.0S	Smart Meter Functional Requirements	Cl.10 of IS 16444 (Part 2)- 2017 Amd 1 -2019



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	7 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
45	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	AC voltage test	CI.5.4.6.3 IS 15884
46	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Cold test	CI.5.3.2 IS 15884
47	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Continuous abnormal dc. magnetic Induction of external Origin (200 mTesla)	CI 4.6.2 IS 15884
48	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Damp heat cyclic test	CI.5.3.3 IS 15884
49	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	DC & even harmonics in current circuit	CI 4.6.2 IS 15884
50	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Dry heat test	CI.5.3.1 IS 15884
51	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Effects of Disturbances on Time Keeping	IS15884:2010 ,CI. D-4,IEC62055 -31,CI. D- 5:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	8 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
52	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Effects of Disturbances on Time Keeping	Cl. D- 4 IS15884:2024
53	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Frequency variation	Cl 4.6.2 IS 15884
54	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Functional requirements	Cl.5.9 IS15884:2024
55	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	General Mechanical requirements ,General, Meter case, Window, Terminals, Terminal Block and Protective earth Terminal, Terminal Cover, Clearances and Creepage distances, Insulating encased meter, Display of measured values, Marking of meters Keypad Interference	Cl.4.2 IS15884:2024
56	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Impulse voltage test	Cl.5.4.6.2 IS15884:2024
57	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Insulation test	Cl.5.4.6.4 IS15884:2024,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	9 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
58	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Interpretation of test Results	CI.No.5.6.6 IS 15884
59	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Interruption and restoration of the load	Cl. 5.9 IS 15884
60	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	limits of error and Interpretation of test Results	IS15884:2010 Cl.5.6.6, IEC62055 -31:2022 Cl.8.0
61	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Limits of Error due to Ambient Temperature Variation	Cl. 4.6.3 IS 15884
62	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Magnetic induction of external origin (0.5mT)	Cl 4.6.2 IS 15884
63	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Magnetic induction of external origin 10 mT	Cl 4.6.2 IS 15884
64	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Operation of an Accessories	Cl.4.6.2 IS 15884



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	10 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
65	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Protection against penetration of dust and water	Cl. 5.2.5 IS 15884
66	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Radio Interference Measurement - Conducted emission- (0.15MHz to 30MHz)	IS15884:2010Cl.5.5.5, IEC 62055-31:2022 Cl.7.8.8,
67	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Reversed phase sequence	Cl 4.6.2 IS 15884
68	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Shock test	Cl.5.2.2 IS 15884
69	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Spring Hammer Test/ mechanical test of meter case	Cl.5.2.1 IS 15884
70	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Stray d.c.magnetic induction of external origin 67mT	Cl 4.6.2 IS 15884
71	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of Accuracy of Real time clock with temperature	Cl. D- 3.2.3 IS15884:2024



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	11 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
72	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of Load Switch operation.	Cl. 5.8.1 IS15884:2024
73	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of Load Switch operation.	Cl. 5.10 IS 15884
74	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of meter constant	Cl.5.6.5 IS 15884
75	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of no load condition	Cl.5.6.3 IS 15884
76	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of Real time Clocks on mains supplies	Cl. D-3.2.1, IS 15884
77	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of Real time Clocks on Operation Reserve	Cl. D- 3.2.2 IS 15884
78	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of repeatability of Error	Cl.5.6.7 IS 15884



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	12 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
79	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of resistance to heat & fire	CI.5.2.4 IS 15884
80	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of starting condition, initial start up of the meter	CI.5.6.4 IS15884:2024,
81	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test on limits of error	CI.4.6.1 IS 15884
82	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Time keeping Accuracy	CI. no. 4.7 IS15884:2024,
83	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Vibration test	CI.5.2.3 IS 15884
84	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Voltage unbalance	CI 4.6.2 IS 15884
85	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Voltage variation	CI 4.6.2 IS 15884



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	13 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
86	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Waveform 10% of 3rd harmonic in the current	CI 4.6.2 IS 15884
87	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Endurance Test.	CI.G3 IS15884:2024 , IS16444 (Part 1): 2015 Amend.1,2 ,3
88	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Minimum Switched Current	CI.G7 IS15884:2024 , IS16444 (Part 1): 2015 Amend.1,2 ,3
89	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Dielectric strength	CI.G8 IS15884:2024 , IS16444 (Part 1): 2015 Amend.1,2 ,3
90	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Fault current making capacity	CI.G5 IS15884:2024 , IS16444 (Part 1): 2015 A.1 and 2
91	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Line to Load Voltage Surge Withstand	CI.G4 IS15884:2024, IS16444 (Part 1): 2015 Amend.1,2 ,3
92	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Normal Operation	CI.G2 IS15884:2024, IS16444 (Part 1): 2015 Amend.1,2 ,3



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	14 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
93	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Performance requirement for payment meter with Load switching utilization categories UC2 and UC3	Cl. 4.8 and Annexure G IS 15884
94	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Short circuit current carrying capacity	Cl.G6 IS15884:2024, IS16444 (Part 1): 2015 Amend.1,2 ,3
95	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Functional requirements	IS15884:2010 Cl.6.0,IEC62055 -31, Cl.9.0
96	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Influence of heating	Cl.5.4.5 IS15884:2024
97	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of immunity to earth/phase fault / Abnormal voltage condition	Cl.4.4.2.5 IS15884:2024
98	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of Load Switch operation.	Cl. 4.8 IS15884:2024
99	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Electrostatic Discharge Test	Cl.5.5.2 IS 15884



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	15 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
100	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Fast transient burst test	CI.5.5.4 IS 15884
101	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Influence of self heating	CI.5.4.4 IS 15884
102	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Influence of supply Voltage	CI.5.4.2 and 5.4.2 IS15884:2024
103	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Power Consumption	CI 5.4.1 IS15884:2024
104	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Radio Interference Measurement-Radiated emission-(30MHz to 300MHz)	CI.5.5.5 IS 15884
105	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Radio Interference Measurement Conducted Emission-(0.15MHz to 30MHz)	CI.5.5.5 IS 15884
106	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Short time over current Test	CI.5.4.3 IS 15884



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	16 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
107	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Surge immunity test	Cl.5.5.6 IS15884:2024
108	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of Immunity to electromagnetic HF/RF Fields.	Cl.5.5.3 IS15884:2024
109	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of resistance to heat & fire	IS15884:2010 Cl.5.2.4,IEC62055-31:2022, IEC62052-31:2015Cl.9.3.2.1,
110	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Abnormal voltage condition	IS15884:2010,IEC62055-31:2022,IS16444 (Part 1):2015 A.2 Cl.6.10.7,
111	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Electrical Endurance	IS15884:2010 Cl.G3,IS16444 (Part 1): 2015 A.1 and 2Cl.7.2,IEC62055-31:2022,Cl. Annex C3
112	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Electrostatic Discharge Test	IS15884:2010Cl.5.5.2,IEC 62055-31:2022 Cl.7.8.2, IS16444 (Part 1): 2015 A.1&2 Cl.6.11,
113	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Fast transient burst test	IS15884:2010Cl.5.5.4,IEC 62055-31:2022 Cl.7.8.4, IS16444(Part1):2015A.1,2 Cl.6.11,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	17 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
114	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Fault current making capacity	IS15884:2010 Cl.G5,IS16444 (Part 1): 2015 A.1 and 2Cl.7.2,IEC62055 -31,Cl. Annex C5:
115	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Influence of heating	IS15884:2010 Cl.5.4.5,IEC62055 -31:2022 Cl.7.5, IS16444 (Part 1): 2015 A.1& 2 Cl.6.10.5,IEC62052-31:2015 Cl.10.4,
116	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Influence of self heating	IS15884:2010Cl.5.4.4, IEC62055 -31:2022 Cl.7.6, IS16444(Part1): 2015 A.1&2 Cl.6.10.4,
117	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Influence of supply Voltage	Cl.5.4.2, IS15884:2010 Cl.4.4.2 & 5.4.2,IEC62055 -31:2022 Cl.7.2,IS16444 (Part 1): 2015 A.1&2 Cl.6.10.2,
118	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Line to Load Voltage Surge Withstand	IS15884:2010 Cl.G4,IS16444 (Part 1): 2015 A.1,2Cl.7.2,IEC62055 -31:2022, Cl. Annex C4
119	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Load Switching capability/ performance requirement for load switching	IS15884:2010 Cl. 4.6.6.2,IEC62055 -31:2022,Cl.7.9,IS16444 (Part 1)A.1 ,2 Cl.7.2:
120	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Short time over current Test	IS15884:2010Cl.4.4.3, IEC62055 -31:2022, Cl.7.4,IS16444(Part1):2015 A.1&2 Cl.6.10.3,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	18 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
121	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Surge immunity test	IS15884:2010 Cl.5.5.7,IEC62055 -31:2022 Cl.7.8.6,IS16444 (Part1):2015,A.1& 2Cl.6.11,
122	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of Immunity to electromagnetic HF/RF Fields.	IS15884:2010 Cl.5.5.3,IEC62055-31:2022 Cl.7.8.3,IS16444 (Part 1): 2015 A.1 and 2 Cl.6.11,
123	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Abnormal a.c.magnetic Induction of external Origin (10 mTesla)	IS15884:2010 Cl.5.6.2.4,
124	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	AC voltage test	IS15884:2010 Cl.5.4.6.3, IEC62055 -31:2022 Cl.7.7
125	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	AC voltage test	IS15884:2010 Cl.5.4.6.3, IEC62055 -31:2022 Cl.7.7,
126	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Ambient temp. influence	IS15884:2010 Cl.5.6.3, IEC62055 -31:2022 Cl.8.0,
127	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Cold test	IS15884:2010 Cl.5.3.1,IEC62055 -31:2022 Cl.No.6.0



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	19 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
128	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Continuous abnormal dc.magnetic Induction of external Origin(200/270 mTesla)	IS15884:2010 Cl.4.6.2,
129	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Crystal-controlled Clocks on ac supplies	IS15884:2010,Cl. D-3.2.1, IEC62055 -31,Cl. D- 4.3.1,
130	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Crystal-controlled Clocks on Operation Reserve	IS15884:2010,Cl. D-3.2.2,IEC62055 -31,Cl. D-4.3.2:
131	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Damp heat cyclic test	IS15884:2010 Cl.5.3.1,IEC62055 -31:2022 Cl.No.6.0,
132	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	DC & even harmonics in current circuit	IS15884:2010 Cl.4.6.2, IEC62055 -31:2022 Cl.4.6.3
133	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Dry heat test	IS15884:2010 Cl.5.3.1,IEC62055 -31:2022 IEC62052-11:2020 Cl.8.3.3,IEC62053-21:2020 Cl.8,IEC62053-22:2020 Cl.8,IEC62053-23:2020 Cl.8,IEC62053-24:2020 Cl.8,
134	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Frequency variation	IS15884:2010 Cl.4.6.2, IEC62055 -31:2022 Cl.8.0



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5181

Page No

20 of 212

Validity

10/06/2024 to 09/06/2026

Last Amended on

28/08/2025

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
135	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	General and constructional requirements: General, Meter case, Window, Terminals, Terminal Block and Protective earth Terminal, Terminal Cover, Clearances and Creepage distances, Insulating encased meter, Display of measured values, Output Device, Keypad Interference	IS15884:2010 Cl.4.1, 4.2.12.3, IEC62055 -31
136	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Impulse voltage test	IS15884:2010 Cl.5.4.6.2, IEC62055 -31:2022 Cl.7.7,
137	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Insulation test	IS15884:2010 Cl.5.4.6.1, IEC62055 -31
138	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Insulation test	IS15884:2010 Cl.5.4.6.1, IEC62055 -31:
139	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Interpretation of test Results	IS15884:2010 Cl.5.6.6, IEC62055 -31:2022 Cl.8.0,
140	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Limits of Error	IS15884:2010 Cl.4.6.1, IEC62055 -31:2005 Cl.8.0



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	21 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
141	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Magnetic induction of external origin (0.5mT)	IS15884:2010 Cl.4.6.2, IEC62055 -31:2022 Cl.7.7,
142	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Marking of meters Name Plate Connection diagrams and terminal Marking	IS15884:2010 Cl.4.2, IEC62055 -31
143	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Operation of an Accessories	IS15884:2010 Cl.4.6.2, IEC62055 -31
144	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Power Consumption	IS 15884:2010 Cl 5.4.1, IEC62055 -31:2022 Cl.7.3
145	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Power Consumption	IS15884:2010 Cl 5.4.1, IEC62055 -31:2022 Cl.7.3,
146	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Protection against penetration of dust and water	IS15884:2010 Cl5.2.5, IEC62055-31:2022 , IEC62052-31, 2015 Cl.11,
147	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Reversed phase sequence	IS15884:2010 Cl.4.6.2, IEC62055 -31:2022 Cl.8.0,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	22 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
148	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Shock test	IS15884:2010 Cl.5.2.2, IEC62055 -31:2022 Cl.5.2.2,
149	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Spring Hammer Test/mechanical test of meter case	IS15884:2010 Cl.5.2.1,IEC62055-31:2022,IEC62052-31:2015Cl.8.2 ,
150	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Stray d.c.magnetic induction of external origin 67mT	IS15884:2010 Cl.4.6.2,
151	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of Initial start -up of meter and Test of no load condition	IS15884:2010 Cl.5.6.3, IEC62055 -31:2005Cl.8.0
152	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of Initial start -up of meter and Test of no load condition	IS15884:2010 Cl.5.6.3, IEC62055 -31:2022 Cl.8.0,
153	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of meter constant	IS15884:2010 Cl.5.6.5, IEC62055 -31:2022 Cl.8.0,
154	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of meter constant	IS13779:1999 A.1 to 5Cl.12.15 (Withdrawn), IS15884:2010 Cl.5.6.5, IEC62055 -31:2022 Cl.8.0,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	23 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
155	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of repeatability of Error	IS15884:2010 Cl.5.6.7, IEC62055 -31:2022 Cl.7.7,
156	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of repeatability of Error	IS15884:2010 Cl.5.6.7, IEC62055 -31:2022 Cl.7.7,
157	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of starting condition,	IS15884:2010 Cl.5.6.4, IEC62055 -31:2022 Cl.8.0
158	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of starting condition	IS15884:2010 Cl.5.6.4, IEC62055 -31:2022 Cl.8.0
159	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test on consumption based, time base charging functions	IS15884:2010 Cl.5.9,IEC62055 -31
160	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test on limits of error	IS15884:2010 Cl.4.6.1, IEC62055 -31:2022 Cl.8.0,
161	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Vibration test (Sine and random)	IS15884:2010 Cl.5.2.3,IEC62055 -31:2022 cl.no.5.2.3,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	24 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
162	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Voltage unbalance	IS15884:2010 Cl.4.6.2, IEC62055 -31:2022 Cl.8.0,
163	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Voltage variation	IS15884:2010 Cl.4.6.2, IEC62055 -31:2022 Cl.8.0,
164	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Waveform 10% of 3rd harmonic in the current	IS15884:2010 Cl.4.6.2,
165	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Vibration test (Sine and random)	IS14697:1999A.1 to 4,Cl.12.3.2(Withdrawn),C BIP - 325:2015 Cl.5.2.3,IS16444 (Part 2):2017 A.1 Cl.6.5,IEC62052-11:2020 Cl.5.2.1,IEC62053-21:2020,IEC62053-23:2020,IEC62053-24:2020,IS14697:2021A1,C l.12.3.2
166	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S,0.5S and 1.0S	Impulse voltage test	IS14697: 1999 A.1 to 4 Cl.12.7.6.2 (Withdrawn), CBIP-325:2015 Cl.5.4.6.2, IS16444(Part 2):2017A.1Cl.6.10.6, IS14697:2021 A1,Cl.12.7.6.2, IEC62052-31:2015 Cl.6.10.3.3, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	25 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
167	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart Meter Class 0.2S,0.5S and 1.0S	Insulation test	IS14697: 1999 A.1to4 Cl.12.7.6.4 (Withdrawn), CBIP-325:2015 Cl.5.4.6.4, IS16444(Part 2):2017 A.1Cl.6.10.6, IS13779:2020 Cl.12.7.6.4, IS14697 A.1 Cl.12.7.6.4,
168	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart Meter Class 0.2S,0.5S and 1.0S	Test of Initial start -up of meter and Test of no load condition	IS14697: 1999 A.1 to 4 Cl.12.12 (Withdrawn), CBIP-325:2015 Cl.5.6.4, IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021A.1 Cl.12.12, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.6:
169	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Dry heat test	IS14697:1999 A.1 to 4,Cl.12.6.1(Withdrawn), CBIP-325:2015 ,Cl.6.9, IS16444 (Part 2):2017 A.1 Cl.6.9,IEC62052-11:2020 Cl.8.3.3,IEC62053-21:2020 Cl.8,IEC62053-22:2020 Cl.8,IEC62053-24:2020 Cl.8,IS14697 A.1,Cl.12.6.1:
170	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Electrostatic Discharge Test	IS14697, 1999,A.1to 4, Cl.12.8.2(Withdrawn), CBIP – 325:2015Cl.5.5.2,IS16444 (Part2) A.1 Cl.6.11, IEC62052-11:2020Cl.9.3.3 , IEC62053-21:2020,IEC62053-22:2020, IEC62053-24:2020, IS14697 A.1,Cl.12.8.2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	26 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
171	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour SmartMeterClass 0.2S,0.5S and 1.0S	Radio Interference Measurement - Conducted emission- (0.15MHz to 30MHz)	IS14697:1999A.1to4Cl.12.8.5(Withdrawn), CBIP -325:2015Cl.5.5.5,IS16444(Part 2):2017A.1Cl.6.11,IS14697 A.1 Cl.12.8.6(a),
172	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S,0.5S and 1.0S	AC voltage test	IS14697: 1999 A.1 to 4 Cl.12.7.6.3 (Withdrawn), CBIP-325:2015 Cl.5.4.6.3, IS16444(Part 2):2017 A.1Cl.6.10.6, IS14697:2021 A.1 Cl.12.7.6.2, IEC62052-31:2015Cl.6.10.3.3, IEC62052-11:2020, IEC62053-21:2020 IEC 62053-22:2020, IEC62053-24:
173	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5;AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	AC voltage test	IS14697: 1999 A.1 to 4 Cl.12.7.6.3 (Withdrawn),CBIP-325:2015 Cl.5.4.6.3,IS16444(Part 2):2017A.1Cl.6.10.6, IS14697:2021 Cl.12.7.6.2, IEC62052-31:2015Cl.6.10.3.3, IEC62052-11:2020, IEC62053-21:2020 IEC62053-22:2020, IEC62053-24:2020
174	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5;AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Insulation test	IS14697: 1999 A.1to4 Cl.12.7.6.4 (Withdrawn),CBIP-325:2015 Cl.5.4.6.4,IS16444(Part 2):2017A.1Cl.6.10.6, IS13779:2020 Cl.12.7.6.4, IS14697Cl.12.7.6.4,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	27 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
175	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5;AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Interpretation of test Results	IS14697: 1999 A.1 to 4 Cl.12.15 (Withdrawn),CBIP-325:2015 ,IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021Cl.12.15, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24
176	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5;AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Test of Initial start -up of meter and Test of no load condition	IS 14697: 1999 A.1 to 4 Cl.12.12 (Withdrawn),CBIP-325:2015 Cl.5.6.4, IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021Cl.12.12, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.6:2020
177	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5;AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Test of meter constant	IS14697: 1999 A.1 to 4 Cl.12.14 (Withdrawn),CBIP-325:2015 Cl.5.4.6.6,IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021Cl.12.14, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.4



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	28 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
178	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test of repeatability of Error	IS14697: 1999 A.1 to 4 Cl.12.16 (Withdrawn), CBIP-325:2015 Cl.5.6.9, IS16444 (Part 2):2017 A.1 Cl.6.12, IS14697:2021 Cl.12.16, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-23:2020, IEC62053-24, Cl.7.8
179	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test of starting condition	IS14697: 1999 A.1 to 4 Cl.12.13 (Withdrawn), CBIP-325:2015 Cl.5.4.6.5, IS16444 (Part 2):2017 A.1 Cl.6.12, IS14697:2021 Cl.12.13, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24, Cl.7.7
180	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5, AC Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Radio Interference Measurement- Radiated emission-(30MHz to 300MHz)	IS14697:1999 A.1 to 4 Cl.12.8.5 (Withdrawn), CBIP-325:2015 Cl.5.5.5, IS16444 (Part 2):2017 A.1 Cl.6.11, IS14697 A.1 Cl.12.8.6(a)
181	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC Static Transformer operated Watthour and VAR - hour Smart	Test on limits of error	IS14697: 1999 A.1 to 4 Cl.11.1 (Withdrawn), CBIP-325:2015 Cl.5.4.6.8, IS16444 (Part 2):2017 A.1 Cl.6.12, IS14697:2021 A.1 Cl.11.1, IEC62052-11:2020, IEC62053-21:2020, IEC62053-23:2020, IEC62053-24, Cl.7.9:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	29 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
182	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Marking of meters Name Plate Connection diagrams and terminal Marking	IS14697:1999A.1 to4Cl.7.0(Withdrawn),CBIP: 325:2015 Cl.4.2.2.11,IS16444(Part2):2017A.1 Cl.6.8, IEC62052-11:2020,IEC62053-22: 2020,IEC62053-24:2020,I S14697 A.1 Cl.7.0,
183	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour SmartMeterClass 0.2S,0.5S and 1.0S	Abnormal a.c.magnetic Induction of external Origin (10 mTesla)	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.5.6.2.4, IS16444(Part 2):2017A.1Cl.6.12, IS14697 A.1,Cl.12.10
184	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Surge immunity test	IS16444(Part2): 2017A.1Cl.6.11, IS14697:2021 A.1 Cl.12.8.5,2021,IEC62052-11:2020 Cl.9.3.9,IEC62053-21:202 0,IEC62053-22:2020,IEC6 2053-23:2020,IEC62053-2 4:2020,IEC62052-31:
185	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart	limits of error and Interpretation of test Results	IS14697: 1999 A.1 to 4 Cl.12.15 (Withdrawn), CBIP-325:2015 , IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021 A.1 Cl.12.15, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	30 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
186	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S,0.5S and 1.0S	Auxiliary voltage +/- 15%	IS14697:1999 A.1 to 4 Cl.12.10(Withdrawn),CBIP - 325:2015Cl.4.2.2.10, IS16444 (Part 2): 2017 A.1Cl.6.12, IS14697:2021A.1,Cl.12.10 , IEC62052-11:2020 Cl.9.4.8, IEC62053-21:2020 Cl.7.10,IEC62053-22:2020 Cl.7.10, IEC62053-24Cl.7.10,
187	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S,0.5S and 1.0S	Frequency variation	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.5.4.6.3, IS16444(Part 2):2017A.1 Cl.6.12, IS14697:2021 A.1 Cl.12, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.10:
188	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S,0.5S and 1.0S	Reversed phase sequence	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.4.6.3, IS16444(Part 2):2017A.1Cl.6.12, , IS14697:2021 A.1 Cl.12.10, IEC62052-11:2020,Cl.9.4.7, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.10,:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	31 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
189	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S,0.5S and 1.0S	Test of immunity to earth/phase fault	IS14697:1999 A.1 to 4Cl.12.17(Withdrawn), CBIP - 325:2015, IS16444(Part 2) :2017 A.1 Cl.6.10.7, IEC62052-11: 2020Cl.9.4.13,IEC62053-2 1:2020 Cl.7.10,IEC62053-22:2020 Cl.7.10,IEC62053-24:2020 Cl.7.10,IS14697:2021 A.1,Cl.12.17:
190	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S,0.5S and 1.0S	Test of meter constant	IS14697: 1999 A.1 to 4 Cl.12.14 (Withdrawn), CBIP-325:2015 Cl.5.4.6.6, IS16444(Part 2):2017A.1 Cl.6.12, IS14697:2021 A.1 Cl.12.14, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.4
191	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S,0.5S and 1.0S	Test of repeatability of Error	IS14697: 1999 A.1 to 4 Cl.12.16 (Withdrawn), CBIP-325:2015 Cl.5.6.9, IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021 A.1 Cl.12.16, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC620 53-23:2020, IEC62053-24,Cl.7.8:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	32 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
192	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart Meter Class 0.2S,0.5S and 1.0S	Test of starting condition	IS14697: 1999 A.1 to 4 Cl.12.13 (Withdrawn), CBIP-325:2015 Cl.5.4.6.5, IS16444(Part 2):2017A.1 Cl.6.12, IS14697:2021 A.1 Cl.12.13, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,CL.7.7:
193	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart Meter Class 0.2S,0.5S and 1.0S	Voltage unbalance	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.4.6.3, IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021 A.1 Cl.12.10, IEC62052-11:2020 Cl.9.4.5, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.10:
194	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart Meter Class 0.2S,0.5S and 1.0S	Voltage variation	IS14697: 1999 A.1 to 4 Cl.12 (Withdrawn), CBIP-325:2015, IS16444(Part 2):2017A.1Cl.6.12, , IS14697:2021 A.1 Cl.12, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.10:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	33 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
195	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Cold test	IS14697:1999 A.1 to 4Cl.12.6.2(Withdrawn), CBIP – 325:2015 Cl.5.3.2,IS16444 (Part 2):2017 A.1 Cl.6.9,IEC62052-11:2020 Cl.8.3.4,IEC62053-21:2020 Cl.8,IEC62053-22:2020 Cl.8,IEC62053-23:2020 Cl.8,IEC62053-24:2020 Cl.8,IS14697 A.1 Cl.12.6.2
196	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Damp heat cyclic test	IS14697:1999A.1 to 4Cl.12.6.3(Withdrawn), CBIP-325:2015 Cl.5.3.3,IS16444 (Part 2): 2017 A.1IEC62052-11:2020 Cl.8.3.5,IEC62053-21:2020 Cl.8,IEC62053-22:2020 Cl.8,IEC62053-23:2020 Cl.8,IEC62053-24:2020 Cl.8,IS14697 A.1 ,Cl.12.6.3:
197	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	General and constructional requirements: General, Meter case, Window,Terminals, Terminal Block and Protective earth Terminal, Terminal Cover, Clearances and Creepage distances, Insulating encased meter,Display of measured values, Output Device,	IS14697:1999 A.1 to 4 Cl.6.0 (Withdrawn), CBIP – 325:2015 Cl.4.2.2,IS16444 (Part 2):2017 A.1 &2Cl.6.0, IEC62052-11:2020Cl.5.0,I EC62053-21:2020,IEC620 53-22:2020,IEC62053-24: 2020,IS14697 A.1,Cl.6.0



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	34 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
198	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Influence of heating	IS14697:1999 A.1 to 4Cl.12.7.5(Withdrawn),CB IP – 325:2015 Cl.5.4.5,IS16444 (Part 2):2017 A.1 Cl.6.10.5, IEC62052-31:2015Cl.10.4, IEC62052-11:2020,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020,IEC62053-24:2020,IS14697 A.1 ,Cl. 12.7.5
199	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Influence of self heating	IS14697:1999 A.1 to 4Cl.12.7.4(Withdrawn),CB IP-325:2015Cl.5.4.4,IS16444 (Part2):2017A.1Cl.6.10.4, IEC62052-11:2020 Cl.9.4.11,IEC62053-21, IEC62053-22, IEC62053-24:2020 Cl.7.10,IS14697 A.1 Cl.12.7.4
200	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Influence of supply Voltage	IS14697:1999 A.1 to 4 Cl.12.7.2(Withdrawn), CBIP-325:2015 ,IS16444 (Part 2) :2017A.1Cl.6.10.2, IEC62052-11:2020 Cl.9.3.2,IEC62053-21:2020 Cl.7.10,IEC62053-22:2020 Cl.7.10,IEC62053-24:2020 Cl.7.10,IS14697 A.1,Cl.12.7.2,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	35 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
201	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Operation of an Accessories	IS14697:1999 A.1 to 4 Cl.11.2(Withdrawn), CBIP – 325:2015 Cl.4.6.2,IS16444 (Part 2):2017Cl.6.12, IEC 62052-11, 2020,IEC 62053-21:2020 Clause. 8.2, IEC 62053-22:2020,, IEC 62053-24:2020,IS14697 A.1
202	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Phase of auxiliary Supply changed by 120°	IS14697:1999A.1to 4Cl.12.10(Withdrawn), IS16444 (Part 2) A.1:2017Cl.6.12, IS14697 A.1 Cl.12.10,
203	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Protection against penetration of dust and water	IS14697:1999 A.1 to 4Cl.12.5(Withdrawn) , CBIP – 325:2015 Cl. 5.2.5,IS16444 (Part 2):2017 A.1 Cl.6.5,IEC62052-31,2015C l.11,IEC62052-11:2020,IE C62053-21:2020,IEC6205 3-22:2020,IEC62053-24:2 020,IS14697 A.1 ,Cl.12.5
204	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Shock test	IS14697:1999A.1 to 4,Cl.12.3.2(Withdrawn),C BIP – 325:2015 Cl.5.2.3,IS16444 (Part 2):2017 A.1 Cl.6.5,IEC62052-11:2020 Cl.5.2.1,IEC62053-21:202 0,IEC62053-22:2020,IEC6 2053-23:2020,IEC62053-2 4:2020,IS14697 A.1 ,Cl.12.3.3



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	36 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
205	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Short time over current Test	IS14697:1999 A.1 to 4 Cl.12.7.3(Withdrawn), CBIP-325:2015 Cl.5.4.3,IS16444(Part2):2017A.1Cl.6.10.3, IEC62052-11:2020Cl.9.4.10,IEC62053-21, IEC62053-22, IEC62053-24:2020Cl.7.10, IS14697 A.1 Cl.12.7.3,
206	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Spring Hammer Test/ mechanical test of meter case	IS14697:1999 A.1 to 4Cl.12.3.3(Withdrawn), CBIP-325:2015 Cl.5.2.1,IEC62052-31:2015Cl.8.2,IEC62052-11:2020,IEC62053-21:2020,IEC62053-22:2020,IEC62053-24:2020,IS14697 A.1 ,Cl.12.3.3
207	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Test of Immunity to electromagnetic HF/RF Fields.	IS14697:1999 A.1 to 4 Cl.12.8.3 (Withdrawn), CBIP – 325:2015 ,IS16444 (Part 2):2017A.1 Cl.6.11,IS14697 A.1 Cl.12.8.3:
208	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Test of resistance to heat & fire	IS14697:1999 A.1 to 4 Cl.12.4 (Withdrawn), CBIP -325:2015 Cl.5.2.4, IS16444 (Part 2):2017A.1Cl.6.5, IEC62052-31:2015Cl.9.3.2.1,IEC62052-11:2020, IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020,IEC62053-24:2020,I S14697 A.1 Cl.12.4,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	37 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
209	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Waveform 10% of 3rd harmonic in the current	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.4.6.3, IS16444(Part 2):2017A.1Cl.6.12, , IS14697 A.1 , Cl.12.10,
210	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour SmartMeterClass 0.2S,0.5S and 1.0S	Continuous abnormal dc. magnetic Induction of external Origin (200/270 mTesla)	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.5.6.2.2, IS16444(Part 2):2017A.1Cl.6.12, IS14697 A.1 , Cl.12.10:
211	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour SmartMeterClass 0.2S,0.5S and 1.0S	Fast transient burst test	,IS14697:1999 A.1to4Cl.12.8.4(Withdrawn), CBIP-325:2015 Cl.5.5.3,IS16444(Part 2):2017A.1Cl.6.11, IEC62052-11:2020 Cl.9.3.6,IEC62053-21:2020 Cl.7.10,IEC62053-22:2020 Cl.7.10,IEC62053-24:2020 Cl.7.10,IS14697 A.1 Cl.12.8.4
212	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour SmartMeterClass 0.2S,0.5S and 1.0S	Magnetic induction of external origin (0.5mT)	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.5.6.2.3, IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021 A.1 Cl.12.10, IEC62052-11:2020, Cl.9.3.12, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	38 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
213	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour SmartMeterClass 0.2S,0.5S and 1.0S	Stray d.c.magnetic induction of external origin 67mT	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.5.6.2.2, IS16444(Part 2):2017A.1Cl.6.12, IS14697 A.1 ,Cl.12.10:
214	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart	Limits of Error	IS14697: 1999 A.1 to 4 Cl.11.1 (Withdrawn),CBIP-325:2015 Cl.5.4.6.8, IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021 A.1 Cl.11.1, IEC62052-11:2020, IEC62053-21:2020, IEC62053-23:2020, IEC62053-24,Cl.7.9
215	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Power Consumption	IS14697:1999A.1to4Cl12.7.1(Withdrawn),CBIP-325:2015 Cl 5.4.1,IS16444 (Part2) :2017A.1Cl.6.10.1, IEC62052-11:2020Cl.4.4,I EC62053-21:2020,IEC62053-24:2020 Cl.4.4,IS14697 A.1 Cl.12.7.1,
216	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Power Consumption	IS14697:1999A.1to4Cl12.7.1(Withdrawn),CBIP-325:2015 Cl 5.4.1,IS16444 (Part2) :2017A.1Cl.6.10.1, IEC62052-11:2020Cl.4.4,I EC62053-21:2020,IEC62053-24:2020 Cl.4.4,IS14697Cl.12.7.1,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	39 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
217	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2, AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Vibration test (Sine and random)	IS13779:1999 A.1 to 5Cl.12.3.2(Withdrawn), IS16444 (Part 1): 2015 A.1&2 Cl.6.5, IS13779:2020 Cl.12.3.2,IEC62052-11:2020 Cl.5.2.1,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020,IEC62053-24:
218	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of Accuracy of Crystal controlled clock with temperature	IS15884, 2010, Clause D-3.2.3 IEC 62055 -31, 2022, Clause D- 4.3.3
219	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Abnormal a.c.magnetic induction of external Origin (10 mTesla)	IS13779:1999 A.1 to 5Cl. Cl 12.11 (Withdrawn), CBIP-325:2015 Cl.5.6.2.4, (Part 1):2015A.1&2 Cl.6.12, IS13779:2020 Cl.12.11,
220	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5;	Verification of anti-tamper features	CBIP R.Publication : 325,2015Cl.6.7 IS14697,1999A.1to4(with drawn),IS14697 A.1 Cl.6.7,
221	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour	Test of immunity to conducted disturbances induced by Radio frequency field.	IEC62055 -31:2022 Cl.7. 8.5, IEC62052-11:2020 Cl.9.3.7,IEC62053-21:2020 Cl.7.10,IEC62053-22:2020 Cl.7.10,IEC62053-23:2020 Cl.7.10,IEC62053-24Cl.7.10



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	40 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
222	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2; AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Harmonic component in current and voltage	IEC62055 -31:2022, Cl.4.6.2 IEC62052-11,2020,Cl.9.4.2.3 IEC62053-21,2020,Cl.7.10 IEC62053-22,2020,Cl.7.10 IEC62053-23,2020,Cl.7.10 IEC62053-24,Cl.7.10,
223	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2; AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Odd harmonics in ac current circuit	IEC62055 -31:2022, Cl.4.6.2 IEC62052-11,2020,Cl.9.4.2.4 IEC62053-21,2020,Cl.7.10 IEC62053-22,2020,Cl.7.10 IEC62053-23,2020,Cl.7.10 IEC62053-24,Cl.7.10,
224	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2; AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Sub harmonics in ac current circuit/ Interharmonics in ac current circuit- Burst fired waveform test	IEC62055 -31:2022,Cl.4.6.2 IEC62052-11,2020,Cl.9.4.2.3 IEC62053-21,2020,Cl.7.10 IEC62053-22,2020,Cl.7.10 IEC62053-23,2020,Cl.7.10 IEC62053-24,Cl.7.10
225	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2; AC.Static Transformer operated Watthour and VAR - hour SmartMeterClass 0.2S,0.5S	Continuous magnetic induction of external origin	IEC62055 -31:2022 Cl.7.7,IEC62052-11:2020, Cl.9.3.12,IEC62053-21:2020,IEC62053-22:2020,IEC 62053 23:2020,IEC62053-24:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	41 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
226	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC. Static Direct Connected Watthour Smart Meter Class 1 and 2;	Impulse Voltage	IS13779:1999 A.1 to 5Cl.12.7.6.2 (Withdrawn), CBIP-325:2015 Cl.5.4.6.2, IS16444(Part 1):2015 A.1&2 Cl.6.10.6, IS13779:2020 Cl.12.7.6.2, IEC62052-31:2015 Cl.6.10.3.3, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-23:2020, IEC62053-24
227	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Ambient temp influence	IS13779:1999 A.1 to 5Cl.12.12 (Withdrawn), CBIP-325:2015 Cl.5.6.3, IS16444(Part 1):2015 A.1&2 Cl.6.12, IS13779:2020 Cl.12.12, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-23:2020, IEC62053-24, Cl.7.10:
228	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	DC & even harmonics in current circuit	IS13779:1999 A.1 to 5Cl.12.11 (Withdrawn), CBIP-325:2015 Cl.4.6.3, IS16444(Part 1):2015 A.1&2 Cl.6.12, IS13779:2020 Cl.12.11, IEC62052-11:2020, Cl.9.4.2.5, IEC62053-21:2020, IEC62053-22:2020, IEC62053-23:2020, IEC62053-24, Cl.7.10:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	42 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
229	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Insulation test	IS13779:1999 A.1to5Cl.12.7.6.4 (Withdrawn), CBIP-325:2015 Cl.5.4.6.4, Cl.7.7, IS16444(Part 1):2015 A.1&2 Cl.6.10.6 , IS13779:2020 Cl.12.7.6.4,
230	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Limits of error	IS13779:1999 A.1 to 5Cl.11.1 (Withdrawn), CBIP-325:2015 Cl.5.4.6.8, IS16444(Part 1):2015 A.1&2 Cl.6.12, IS 13779:2020 Cl.11.1, Cl.8.0 IEC62052-11:2020, IEC62053-21:2020, IEC62053-23:2020, IEC62053-24:
231	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Limits of error & Interpretation of test Results	IS13779:1999 A.1 to 5Cl.12.16 (Withdrawn), CBIP-325:2015 Cl.5.6.7, IS16444(Part 1):2015 A.1&2 IS13779:2020 Cl.12.16, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24
232	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Reversed phase sequence	IS13779:1999 A.1 to 5Cl.12.11 (Withdrawn), CBIP-325:2015 Cl.4.6.3, IS16444(Part 1):2015 A.1&2 Cl.6.12, IS13779:2020 Cl.12.11, IEC62052-11:2020,Cl.9.4.7, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.10,;



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	43 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
233	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Test of immunity to earth/phase fault	IS13779:1999 A.1 to 5 Cl.12.8(Withdrawn), CBIP - 325:2015,IS16444 (Part 1):2015 A.2 Cl.6.10.7,IS13779 :2020Cl.12.8,IEC62052-11 : 2020Cl.9.4.13,IEC62053-2 1:2020 Cl.7.10,IEC62053-22:2020 Cl.7.10,IEC62053-23:2020 Cl.7.10,IEC62053-24:2020 Cl.7.10,
234	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Test of Initial start -up of meter and Test of no load condition	IS13779:1999 A.1 to 5 Cl.12.13 (Withdrawn), CBIP-325:2015 Cl.5.6.4, Cl.8.0, IS16444(Part 1) :2015 A.1& 2 Cl.6.12, IS13779:2020 Cl.12.13, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC620 53-23:2020, IEC62053-24,Cl.7.6:
235	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Test of repeatability of Error	IS13779:1999 A.1 to 5 Cl.12.17 (Withdrawn), CBIP-325:2015 Cl.5.6.9, IS16444(Part 1):2015 A.1&2 IS13779:2020 Cl.12.17, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC620 53-23:2020, IEC62053-24,Cl.7.8



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	44 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
236	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Test of starting condition	IS13779:1999 A.1 to 5Cl.12.14 (Withdrawn), CBIP-325:2015 Cl.5.4.6.5, IS16444(Part 1):2015 A.1&2 Cl.6.12, IS13779:2020 Cl.12.14, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,CL.7.7:
237	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Voltage unbalance	IS13779:1999 A.1 to 5Cl.12.11 (Withdrawn), CBIP-325:2015 , IS16444(Part 1):2015 A.1&2 Cl.6.12, IS13779:2020 Cl.12.11, IEC62052-11:2020 Cl.9.4.5, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.10:
238	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Frequency variation	IS13779:1999 A.1 to 5Cl.12.11 (Withdrawn), CBIP-325:2015 Cl.5.4.6.3, IS16444(Part 1):2015 A.1&2 Cl.6.12, IS13779:2020 Cl.12.11, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.10:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	45 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
239	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Marking of meters Name Plate Connection diagrams and terminal Marking	IS13779:1999A.1to 5Cl.7.0(Withdrawn), CBIP: 325:2015 Cl.4.2.2.11,IS16444(Part1):2015A.1&2Cl. 6.8,IS13779:2020 Cl.6.0,IEC62052-11:2020,I EC62053-21:2020,IEC620 53-22:2020,IEC62053-23: 2020,IEC62053-24:
240	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Cold test	IS13779:1999 A.1 to 5Cl.12.6.2(Withdrawn), CBIP - 325:2015 Cl.5.3.2,IS16444 (Part 1): 2015 A.1,2Cl.6.9, IS13779:2020 Cl.12.6.2 IEC62052-11:2020 Cl.8.3.4,IEC62053-21:202 0 Cl.8,IEC62053-22:2020 Cl.8,IEC62053-23:2020 Cl.8,IEC62053-24:2020 Cl.8
241	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Damp heat cyclic test	IS13779:1999 A.1 to 5Cl.12.6.3(Withdrawn),CB IP-325:2015 ,IS16444 (Part 1): 2015 A.1&2Cl.6.9, IS13779:2020Cl.12.6.3,IE C62052-11:2020 Cl.8.3.5,IEC62053-21:202 0 Cl.8,IEC62053-22:2020 Cl.8,IEC62053-23:2020 Cl.8,IEC62053-24:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	46 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
242	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	General and constructional requirements: General, Meter case, Window,Terminals, Terminal Block and Protective earth Terminal, Terminal Cover,Clearances and Creepage distances, Insulating encased meter, Display of measured values, Output Device	IS13779:1999 A.1to 5 Cl.6.0 (Withdrawn), CBIP - 325:2015 Cl.4.2.2,IS16444 (Part 1): 2015 A.1&2 Cl.6.0,IS13779:2020 Cl.6.0, IEC62052-11:2020Cl.5.0,I EC62053-21:2020,IEC620 53-22:2020,IEC62053-23: 2020,IEC62053-24:
243	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Magnetic induction of external origin (0.5mT)	IS13779:1999 A.1 to 5Cl. 12.11 (Withdrawn), CBIP-325:2015 Cl.5.6.2.3, IS16444(Part 1):2015A.1&2 Cl.6.12, IS13779:2020 Cl.12.11, , IEC62052-11:2020, Cl.9.3.12, IEC62053-21:2020, IEC62053-22:2020,IEC620 53-23:2020, IEC62053-24
244	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Operation of an Accessories	IS13779:1999 A.1 to 5Cl.12.11(Withdrawn), CBIP - 325:2015Cl.4.6.2,IS16444 (Part 1):2015 A.1&2Cl.6.12,IS13779:20 20 Cl.12.11,IEC 62052-11, 2020,IEC 62053-21:2020 Clause. 8.2 IEC 62053-22:2020,IEC 62053-23:2020, IEC 62053-24:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	47 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
245	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Power Consumption	IS13779:1999A.1to5Cl.12.7.1(Withdrawn), CBIP-325:2015 Cl.5.4.1,IS16444(Part1): 2015 A.1 & 2Cl.6.10.1,IS13779:2020Cl.12.7.1,IEC62052-11:2020,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020,IEC62053-24:2020 Cl.4.4,
246	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Protection against penetration of dust and water	IS13779:1999 A.1 to 5Cl.12.5(Withdrawn),CBIP - 325:2015 Cl.5.2.5, IS16444 (Part 1): 2015 A.1&2 Cl.6.5,IS13779:2020 Cl.12.5,IEC62052-31,2015 Cl.11,IEC62052-11:2020,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020,IEC62053-24
247	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Radio Interference Measurement- Conducted emission-(0.15MHz to 30MHz)	IS13779:1999A.1to5Cl.12.9(Withdrawn), CBIP-325:2015Cl.5.5.5,IS16444(Part1): 2015A.1&2Cl.6.11,IS13779:2020 Cl.12.9.6,
248	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Shock test	IS13779:1999 A.1 to 5Cl.12.3.1(Withdrawn), CBIP-325:2015 Cl.5.2.2, ,IS16444(Part 1): 2015 A.1 and 2 Cl.6.5,IS13779:2020 Cl.12.3.1,IEC62052-11:2020 Cl.5.2.2,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020,IEC62053-24



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	48 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
249	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Spring Hammer Test/mechanical test of meter case	IS13779:1999 A.1 to 5Cl.12.3.3(Withdrawn), CBIP-325:2015 Cl.5.2.1,IS16444 (Part 1): 2015 A.1&2 Cl.6.5, IS13779:2020 Cl.12.3.3,IEC62052-31:2015 Cl.8.2,IEC62052-11:2020,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020,IEC62053-24:
250	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of resistance to heat & fire	IS13779:1999 A.1 to 5Cl.12.4(Withdrawn), CBIP -325:2015 Cl.5.2.4, IS16444 (Part 1): 2015A.1&2 Cl.6.5,IS13779:2020 Cl.12.4 , IEC62052-31:2015Cl.9.3.2 .1,IEC62052-11:2020, IEC62053-21:2020,IEC62053-22:2020,IEC62053-23: 2020,IEC62053-24
251	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Waveform 10% of 3rd harmonic in the current	IS13779:1999 A.1 to 5Cl.12.11 (Withdrawn), CBIP-325:2015 Cl.4.6.3, IS16444(Part 1):2015 A.1&2 Cl.6.12, IS13779:2020 Cl.12.11,
252	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2; AC.Static Transformer operated Watthour	Continuous abnormal dc. magnetic Induction of external Origin (200/270 mTesla)	IS13779:1999 A.1 to 5Cl. Cl 12.11 (Withdrawn), CBIP-325:2015 Cl.5.6.2.2, , IS16444(Part 1):2015A.1&2 Cl.6.12, IS13779:2020 Cl.12.11,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	49 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
253	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Meter constant	IS13779:1999 A.1 to 5Cl.12.15 (Withdrawn), CBIP-325:2015 Cl.5.4.6.6, IS16444(Part 1):2015 A.1&2 IS13779:2020 Cl.12.15, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.4
254	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	AC voltage test	IS13779:1999 A.1 to 5Cl.12.7.6.3 (Withdrawn), CBIP-325:2015 Cl.5.4.6.3 IS16444(Part 1):2015 A.1&2 Cl.6.10.6, IS13779:2020 Cl.12.7.6.2, IEC62052-31:2015Cl.6.10.3.3, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24
255	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Dry heat test	IS13779:1999 A.1 to 5 Cl.12.6.1(Withdrawn), CBIP-325:2015Cl.5.3.1,IS16444 (Part 1): 2015 A.1&2Cl.6.9, IS13779:2020 Cl.12.6.1 IEC62052-11:2020 Cl.8.3.3,IEC62053-21:2020 Cl.8 IEC62053-22:2020 Cl.8,IEC62053-23:2020 Cl.8,IEC62053-24:2020 Cl.8,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	50 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
256	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Insulation test	IS13779:1999 A.1to5Cl.12.7.6.4 (Withdrawn), CBIP-325:2015 Cl.5.4.6.4,Cl.7.7,IS16444(Part 1):2015A.1&2 Cl.6.10.6 ,IS13779:2020 Cl.12.7.6.4,
257	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Interpretation of test Results	IS13779:1999 A.1 to 5Cl.12.16 (Withdrawn), CBIP-325:2015 Cl.5.6.7,IS16444(Part 1):2015A.1&2 IS13779:2020 Cl.12.16, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24
258	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Power Consumption	IS13779:1999A.1to5Cl.12.7.1(Withdrawn),CBIP-325:2015 Cl.5.4.1,IS16444(Part1): 2015 A.1 & 2Cl.6.10.1,IS13779:2020Cl.12.7.1,IEC62052-11:2020,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020,IEC62053-24 :2020 Cl.4.4
259	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of Initial start -up of meter and Test of no load condition	IS13779:1999 A.1 to 5Cl.12.13 (Withdrawn), CBIP-325:2015 Cl.5.6.4,Cl.8.0,IS16444(Pa rt 1):2015A.1&2 Cl.6.12, IS13779:2020 Cl.12.13, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.6:2020



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	51 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
260	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of meter constant	IS13779:1999 A.1 to 5Cl.12.15 (Withdrawn), CBIP-325:2015 Cl.5.4.6.6,IS16444(Part 1):2015A.1&2 IS13779:2020 Cl.12.15, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.4
261	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of repeatability of Error	IS13779:1999 A.1 to 5Cl.12.17 (Withdrawn), CBIP-325:2015 Cl.5.6.9, IS16444(Part 1):2015A.1&2 IS13779:2020 Cl.12.17, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.8:20206 2053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.10
262	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of starting condition	IS13779:1999 A.1 to 5Cl.12.14 (Withdrawn), CBIP-325:2015 Cl.5.4.6.5,IS16444(Part 1):2015A.1&2 Cl.6.12, IS13779:2020 Cl.12.14, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,CL.7.7



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	52 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
263	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test on limits of error	IS13779:1999 A.1 to 5Cl.11.1 (Withdrawn), CBIP-325:2015 Cl.5.4.6.8,IS16444(Part 1):2015A.1&2 Cl.6.12, IS13779:2020 Cl.11.1, Cl.8.0 IEC62052-11:2020, IEC62053-21:2020, IEC62053-23:2020, IEC62053-24
264	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2;	Radio Interference Measurement- Radiated emission-(30MHz to 300MHz)	IS13779:1999A.1to5Cl.12.9(Withdrawn), CBIP-325:2015Cl.5.5.5, IS13779:2020Cl.12.9.6,
265	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2; AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Damped Oscillatory Wave Immunity Test	CI 9.3.11 IEC 62052-11:2020, CI 10.0 IEC 62053-21:2020, CI 10.0 IEC 62053-22:2020, CI 10.0 IEC 62053-23:2020, CI 10.0 IEC 62053-24
266	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2; AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Immunity to conducted disturbances induced by radio frequency fields	CI 9.3.7 IEC 62052-11:2020, CI 10.0 IEC 62053-21:2020, CI 10.0 IEC 62053-22:2020, CI 10.0 IEC 62053-23:2020, CI 10.0 IEC 62053-24
267	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2; AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Ring Wave Immunity Test	CI 9.3.10 IEC 62052-11:2020, CI 10.0 IEC 62053-21:2020, CI 10.0 IEC 62053-22:2020, CI 10.0 IEC 62053-23:2020, CI 10.0 IEC 62053-24



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	53 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
268	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 AC.Static Direct Connected Watthour Smart Meter Class 1 and 2; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S,0.5S and 1.0S;	Voltage variation	IS13779:1999 A.1 to 5Cl.12.11 (Withdrawn), CBIP-325:2015 Cl.4.6.3, IS16444(Part 1):2015 A.1&2 Cl.6.12, IS13779:2020 Cl.12.11, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.10
269	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Electrostatic Discharge Test	IS13779:1999 A.1 to 5Cl.12.9.2(Withdrawn), CBIP - 325:2015Cl.5.5.2,IS13779 :2020 Cl.12.9.2,IEC62052-11:2020 Cl.9.3.3,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020, IEC62053-24 2020 IS:16444 (part1)A1&2
270	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Fast transient burst test	IS13779:1999A.1to5Cl.12.9.4(Withdrawn), IS:16444 (part1)A1&2 2015,CBIP-325:2015 Cl.5.5.3,IS13779:2020Cl.12.9.4,IEC62052-11:2020 Cl.9.3.6,IEC62053-21:2020 Cl.7.10,IEC62053-22:2020 Cl.7.10,IEC62053-23:2020 Cl.7.10,IEC62053-24:2020 Cl.7.10,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	54 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
271	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Influence of heating	IS13779:1999 A.1 to 5 Cl.12.7.5(Withdrawn), IS:16444 (Part1),A1 & 2 :2015,CBIP - 325:2015 Cl.5.4.5, ,IS13779:2020 Cl.12.7.5,IEC62052-31:2015Cl.10.4,IEC62052-11:2020,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020,IEC62053-24:
272	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Influence of self heating	IS13779:1999A.1to 5Cl.12.7.4(Withdrawn) IS:16444(part1) A1&2:2015, CBIP-325:2015Cl.5.4.4,IS13779:2020,Cl.12.7.4,IEC62052-11:2020 Cl.9.4.11,IEC62053-21, IEC62053-22, IEC62053-23, IEC62053-24:2020 Cl.7.10,
273	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Influence of supply Voltage	IS13779:1999 A1 to5Cl.12.7.2(Withdrawn), IS:16444(part1)A1&2:2015, CBIP- 325:2015 Cl.5.4.2, ,IS13779:2020 Cl.12.7.2,IEC62052-11:2020 Cl.9.3.2,IEC62053-21:2020Cl.7.10,IEC62053-22:2020,Cl.7.10,IEC62053-23:2020 Cl.7.10,IEC62053-24:2020 Cl.7.10



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	55 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
274	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Short time over current Test	IS13779:1999A.1to5Cl.12.7.3(Withdrawn), IS16444(part1)A1&2:2015 ,CBIP-325:2015Cl.5.4.3, ,IS13779:2020 Cl.12.7.3,IEC62052-11:2020Cl.9.4.10,IEC62053-21, IEC62053-22, IEC62053-23, IEC62053-24:2020Cl.7.10,
275	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Surge immunity test	IS13779:2020 , IS16444(part1)A1&2:2015, Cl.12.9.5,IEC62052-11:2020 Cl.9.3.9,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020,IEC62053-24:2020,IEC62052-31
276	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of Immunity to electromagnetic HF/RF Fields.	IS13779:1999 A.1 to 5 Cl.12.9.3(Withdrawn),, IS15884:2010 Cl.5.5.3,CBIP - 325:2015 Cl.5.5.3,IS16444 (Part 1): 2015 A.1 and 2 Cl.6.11,IS13779
277	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Smart meter Functional Requirement	IS16444 (Part 1): 2015 A.1 and 2 Cl.11.0
278	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test for Data Exchange Protocol	IS16444 (Part 1): 2015 A.1, 2 Cl.10.5 IS15959 (Part 1): 2011 with Am. 1 July 2014, Am. 2 March 2015, Am. 3 January 2016 and Am. 4 April,2017. Amendment No. 5 Feb.2021 IS15959 (Part 2): 2016 with Am.1and 2, April 2017



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	56 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
279	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test for Smart Meter Communicability (Equipment Type Approval (ETA) of modules for WAN/NAN/HD shall be approved by designated agency authorized by DoT)	IS16444 (Part 1): 2015 A.1 and 2 Cl.10.6.2 IS15959 (Part 1): 2011 with Amendment No. 1 July 2014, Amendment No. 2 March 2015, Amendment No. 3 January 2016, Amendment No.4April,2017 and Amendment No. 5 Feb.2021 IS15959 (Part 2): 2016 with A.1, April 2017,A.2,May
280	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Transformer operated Watthour and VAr - hour Smart Meter Class 0.2S,0.5S and 1.0S	Test for smart meter communicability	IS16444 (Part 2) ,A.1 , Cl.9.5.2
281	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Transformer operated Watthour and VAr - hour Smart MeterClass 0.2S,0.5S and 1.0S	Smart meter Functional Requirement	IS16444 (Part 2),2017 A.1,Cl.10.0
282	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Transformer operated Watthour and VAr - hour Smart MeterClass 0.2S,0.5S and 1.0S	Test for Data Exchange Protocol	IS16444 (Part 2) : 2016 A.1 Cl.9.4 IS15959 (Part 1): 2011 with Am. 1 July 2014, Am. 2 March 2015, Am. 3 January 2016 and Am. 4 April,2017. Amendment No. 5 Feb.2021 IS15959 (Part 3):



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	57 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
283	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Transformer operated Watthour and VAr – hour Smart MeterClass 0.2S,0.5S and 1.0S	Test for Smart Meter Communicability (Equipment Type Approval (ETA) of modules for WAN/NAN/HD shall be approved by designated agency authorized by DoT)	IS16444 (Part 2) : 2016 A.1 Cl.9.6.2 IS15959 (Part 1): 2011 with Amendment No. 1 July 2014, Amendment No. 2 March 2015, Amendment No. 3 January 2016, Amendment No.4April,2017 and Amendment No. 5 Feb.2021, IS15959 (Part 3)
284	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter	Conformance test	IS 15959 (Part 1): 2011 / IS / IEC 62056 (DLMS / COSEM)-2005:
285	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter	Conformance test	IS / IEC 62056 (DLMS / COSEM)-2005:
286	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter -Smart Meter Category D1 & D2	17.0 Event code and Event logging :(a) Indian Event Reference Table - Voltage Related(b)Indian Event Reference Table - Current Related(c) Indian Event Reference Table - Power Related(d) Indian Event Reference Table - Transaction Related(e) Indian Event Reference Table -Other(f) Indian Event Reference Table - Non Roll Over(g) Indian Event Reference Table - Control18.0 Selective access by Entry for Event Log Profile	CI No 4 to 24 of IS 15959 (Part 2) -2016



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	58 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
287	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter -Static Energy Meter Category A, B, C1, C2 & C3	2.11 Event code and Event logging :2.11.1 Indian Event Reference Table -Voltage Related2.11.2 Indian Event Reference Table - Current Related2.11.3 Indian Event Reference Table -Power Related2.11.4 Indian Event Reference Table - Transaction Related2.11.5 Indian Event Reference Table -Other2.11.6 Indian Event Reference Table - Non Roll Over2.11.7 Indian Event Reference Table -Control2.12 Selective access by Entry for Event Log Profile	CI No 4 to 14 Annex A to L of IS 15959 (Part 1) -2011
288	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter -Static Energy Meter Category A, B, C1, C2 & C3	2.9.2 Block load profile parameters2.9.3 Selective access by Range for Block load profile 2.9.4 Daily load profile parameters2.9.5Selective access by Range for Daily load profile2.9.6 Billing profile parameters2.9.7 Selective access by Entry for Billing profile2.10 General Purpose parameters :2.10.1 Name Plate Details2.10.2 Programmable Parameters	CI No 4 to 14 Annex A to L of IS 15959 (Part 1)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	59 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
289	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter -Static Energy Meter Category A, B, C1, C2 & C3	Compliance test:1.0 Conformance to DLMS / COSEM (IEC 62056)2.0 Parameter verification:2.1 SNRM/UA2.2 Object list download2.3 Association properties2.4 Simultaneous operation2.5 Security:2.5.1 Lowest LevelSecurity Secret 2.5.2 Low Level Security (LLS) Secret2.5.3 High Level Security (HLS) Secret2.6 ToU setting2.7 Billing Period2.8 Billing Period Counter2.9 Parameter list:2.9.1 (a) Instantaneous Parameters2.9.1 (b) Snap Shot of Instantaneous Parameters2.9.1 (c) Scaler Profile	CI No 4 to 14 Annex A to L of IS 15959 (Part 1) -2011:
290	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D1 & D2	10.0 Daily load profile parameters11.0Selective access by Range for Daily load profile12.0 ToU setting13.0 Billing profile parameters14.0 Billing Period15.0 Billing Period Counter16.0 Selective access by Entry for Billing profile	CI No 4 to 24 of IS 15959 (Part 2) -2016



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	60 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
291	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D1 & D2	19.0 General Purpose parameters :(a) Name Plate Details(b) Programmable Parameters20.0 Test for Smart Meter Functional Requirements21.0 Tests for Smart Meter communicability(a) Association(b) Data read(c) Profile read(d)Selective Programmability(e) Reporting of events(f) Connect/ Disconnect(g) Firmware upgrade	CI No 4 to 24 of IS 15959 (Part 2) -2016
292	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D1 & D2	Compliance test:1.0 Conformance to DLMS/COSEM (IEC 62056)2.0 Parameter verification:3.0 SNRM/UA4.0 Object list download5.0 Association properties6.0 Security:(a) Lowest LevelSecurity Secret (b) Low Level Security (LLS) Secret(c) High Level Security (HLS) SecretParameter list:7.0 (a) Instantaneous Parameters7.0 (b) Snap Shot of Instantaneous Parameters7.0 (c) Scaler Profile8.0 Block load profile parameters9.0 Selective access by Range for Block load profile10.0 Daily load profile	CI No 4 to 24 of IS 15959 (Part 2) -2016



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	61 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
293	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D3 & D4	10.0 Daily load profile parameters 11.0 Selective access by Range for Daily load profile 12.0 ToU setting 13.0 Billing profile parameters 14.0 Billing Period 15.0 Billing Period Counter 16.0 Selective access by Entry for Billing profile	CI No 4 to 28 of IS 15959 (Part 3) -2017
294	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D3 & D4	17.0 Event code and Event logging : (a) Indian Event Reference Table " Voltage Related (b) Indian Event Reference Table " Current Related (c) Indian Event Reference Table " Power Related (d) Indian Event Reference Table " Transaction Related (e) Indian Event Reference Table " Other (f) Indian Event Reference Table " Non Roll Over 18.0 Selective access by Entry for Event Log Profile	CI No 4 to 28 of IS 15959 (Part 3) -2017:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	62 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
295	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D3 & D4	19.0 General Purpose parameters :(a) Name Plate Details(b) Programmable Parameters20.0 Tests for Smart Meter Functional Requirements21.0 Tests for Smart Meter communicability(a) Association(b) Data read(c) Profile read(d)Selective Programmability(e) Reporting of events (g) Firmware upgrade	CI No 4 to 28 of IS 15959 (Part 3) -2017
296	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D3 & D4	Compliance test:1.0 Conformance to DLMS/COSEM (IEC 62056)2.0 Parameter verification:3.0 SNRM/UA4.0 Object list download5.0 Association properties6.0 Security:(a) Lowest LevelSecurity Secret (b) Low Level Security (LLS) Secret(c) High Level Security (HLS) SecretParameter list:7.0 (a) Instantaneous Parameters7.0 (b) Snap Shot of Instantaneous Parameters7.0 (c) Scaler Profile8.0 Block load profile parameters9.0 Selective access by Range for Block load profile10.0 Daily load profile	CI No 4 to 28 of IS 15959 (Part 3) -2017:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	63 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
297	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Transformer operated Watthour and VAR-Hour Meters, Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Ambient temp. influence	IS14697: 1999 A.1 to 4 Cl.12.11 (Withdrawn), CBIP-325:2015 Cl.5.6.3, IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021 Cl.12.11, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24, Cl.7.10:
298	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Chopped Lightning Impulse Test on Primary Winding	IS:2705 (Part -1)1992, IS: 16227 Part-1 2016, IS: 16227: Part 2 2016, IS: 16227 Part-4 2015, IEC: 61869-1 2023, IEC: 61869-2, 2012, IEC: 61869-4, 2013; IEEE C57.13: 2016; IEEE C57.13.5:2019, IEC 61869-1
299	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Composite Error	IS:2705 (Part -1)1992, IS: 16227 Part-1 2016, IS: 16227: Part 2 2016, IS: 16227 Part-4 2015, IEC: 61869-2, 2012, IEC: 61869-4, 2013; IEEE C57.13: 2016; IEEE C57.13.5:2019, IEC 61869-1
300	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Determination of Errors and Other characteristics	IS:2705 (Part -1)1992, IS: 16227 Part-1 2016, IS: 16227: Part 2 2016, IS: 16227 Part-4 2015, IEC: 61869-2, 2012, IEC: 61869-4, 2013; IEEE C57.13: 2016; IEEE C57.13.5:2019, IEC 61869-1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	64 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
301	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	High voltage power frequency test (dry and wet).	IS:2705 (Part -1)1992, IS: 16227 Part-1 2016,IS: 16227: Part 2 2016, IS: 16227 Part-4 2015,IEC: 61869-2, 2012,IEC: 61869-4, 2013; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1
302	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Instrument Security	IS:2705 (Part -1)1992, IS: 16227 Part-1 2016,IS: 16227: Part 2 2016, IS: 16227 Part-4 2015,IEC: 61869-2, 2012,IEC: 61869-4, 2013;IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1
303	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Over Voltage Interturn test	IS:2705 (Part -1)1992, IS: 16227 Part-1 2016,IS: 16227: Part 2 2016, IS: 16227 Part-4 2015,IEC: 61869-2, 2012,IEC: 61869-4, 2013; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1
304	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Partial Discharge	IS:2705 (Part -1)1992, IS: 16227 Part-1 2016,IS: 16227: Part 2 2016, IS: 16227 Part-4 2015,IEC: 61869-2, 2012,IEC: 61869-4, 2013; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	65 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
305	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Secondary Winding resistance, knee point voltage and excitation current measurement test	IS:2705 (Part -1)1992, IS: 16227 Part-1 2016,IS: 16227: Part 2 2016, IS: 16227 Part-4 2015,IEC: 61869-2, 2012,IEC: 61869-4, 2013; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1
306	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Switching Impulse Voltage Withstand on Primary Winding (Dry & wet)	IS:2705 (Part -1)1992, IS: 16227 Part-1 2016,IS: 16227: Part 2 2016, IS: 16227 Part-4 2015,IEC: 61869-2, 2012,IEC: 61869-4, 2013; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1
307	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Terminal marking And Polarity	IS:2705 (Part -1)1992 , IS: 16227 Part-1 2016,IS: 16227: Part 2 2016, IS: 16227 Part-4 2015,IEC: 61869-2, 2012,IEC: 61869-4, 2013;IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1
308	ELECTRICAL-INDUCTORS & TRANSFORMERS	current Transformer	Turn ratio	IS:2705 (Part -1) 1992, IS: 16227 Part-1 2016, IS: 16227: Part 2 2016, IS: 16227 Part-4 2015, IEC: 61869-2, 2012, IEC: 61869-4, 2013; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	66 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
309	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Verification of the degree of Protection by enclosures.(Verification of IP coding and Mechanical impact test)	IS:2705 (Part -1)1992, IS/IEC 60529-2001, IEC 60529-2013 IS: 16227 Part-1 2016,IS: 16227 Part 2 2016, IS: 16227 Part-4 2015,IEC: 61869-2, 2012,IEC: 61869-4, 2013;IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1
310	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current transformers	Enclosure tightness test at the ambient temperature (liquid filled)	IS: 16227 Part-1 2016, IS: 16227: Part 2 2016, IS: 16227 Part-4 2015, IEC: 61869-2, 2012, IEC: 61869-4, 2013; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1
311	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current transformers	Lightning Impulse Voltage Withstand	IS:2705 (Part -1)1992, IS: 16227 Part-1 2016,IS: 16227: Part 2 2016, IS: 16227 Part-4 2015,IEC: 61869-2, 2012,IEC: 61869-4, 2013; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1
312	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers	Short Time Current Test	IS:2705 (Part -1) 1992, IS:16227(Part -1)-2016/IEC:61869-1:2007, IS:16227(Part -2)-2016/IEC:61869-2:2012, IS:16227(Part -4)-2015/IEC:61869-4:2013, IEC: 61869-1, 2023; IEC: 61869-2, 2012; IEC: 61869-4, 2013; IEEE C57.13:2016, IEEE C57.13.5:2019



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	67 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
313	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current transformers	Temperature Rise	IS:2705 (Part -1)1992,IS: 16227 Part-1 2016,IS: 16227: Part 2 2016, IS: 16227 Part-4 2015,IEC: 61869-2, 2012,IEC: 61869-4, 2013; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1
314	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current transformers	Transient Response	IS:2705 (Part -1) 1992, IS:16227(Part -1)-2016, IS:16227(Part -2)-2016/IEC:61869-2:2012, IS:16227(Part -4)-2015/IEC:61869-4:2013, IEC: 61869-1, 2023; IEC: 61869-2, 2012; IEEE C57.13:2016, IEEE C57.13.5:2019
315	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformer	Pressure Test	IS:1180 (Part-1), 2014;+ Amd No.1 2016+Amd No.2:2017+amd no.3:2019+Amd.4 2021, IS 1180-3:2021
316	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Acoustic Noise Level/ Sound Level determination	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021
317	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Applied voltage test	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	68 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
318	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Chopped Wave Lightning Impulse test	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021
319	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Induced over voltage Withstand test	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021
320	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Lightning Impulse voltage withstand test	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021
321	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Measurement of Impedance Voltage/Short Circuit Impedance and Load Loss	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021
322	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Measurement of Insulation Resistance	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021
323	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Measurement of no load current harmonics	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021
324	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Measurement of No-Load Loss and Current	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	69 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
325	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Measurement of voltage ratio and check of voltage vector relationship	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021
326	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Measurement of Winding Resistance	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021
327	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Oil Leakage	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021
328	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Paint Adhesion	IS:1180 (Part-1), 2014;+ Amd No 1:2016+Amd no. 2:2017+Amd no. 3:2019+Amd. No. 4:2021, IS 1180-3:2021
329	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Short Circuit Withstand Test (Ability to withstand the dynamic effects of short circuit)	IS:1180 (Part-1), 2014 + Amd No.1 2014 + Amd No.2 2017, +Amd No.3:2019, +Amd No.4:2021, IS:1180 (Part-3):2021
330	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Temperature rise test	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021
331	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Thermal ability to withstand short circuit	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	70 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
332	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Vacuum Test	IS:1180 (Part-1), 2014 + Amd No.1 2014 + Amd No.2 2017;+Amd No. 3:2019;+Amd No.4:2021,IS:1180 (Part-3):2021
333	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Zero Sequence impedance for three phase transformer	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021
334	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type transformers	Measurement of voltage ratio and check of phase displacement	IS 2026- (Part 11):2021/IEC 60076-11:2018,IS:11333: 1985; IEC 60076-11
335	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type transformer	Lightning impulse voltage withstand test	IS 2026-11: 2021, IS 11171 : 1985 IS 11333 : 1985 IEC 60076-11: 2018
336	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type Transformers	Applied voltage test	IS 2026- 11:2021/IEC 60076-11:2018 ,IS:11333:1985;IEC 60076-11
337	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type transformers	Chopped wave lightning impulse test	IS-2026-11, 2021, IEC-60076-11, 2018
338	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type Transformers	Induced over voltage withstand test	IS 2026-11:2021/IEC 60076-11:2018; IS:11333:1985;IEC 60076-11
339	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type Transformers	Measurement of no load current harmonics	IS 2026- 11:2021/IEC 60076-11:2018, IS:11333:1985;EC:60076-11
340	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type Transformers	Measurement of No-load loss and current	IS 2026- 11:2021/IEC 60076-11:2018; IS:11333:1985; IEC 60076-11



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	71 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
341	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type Transformers	Measurement of short circuit impedance and load loss	IS 2026- 11:2021/IEC 60076-11:2018; IS:11333:1985; IEC 60076-11
342	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type transformers	Measurement of sound level	IS 2026-11:2021/IEC 60076-11:2018; IS:11333:1985;IEC 60076-11
343	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type transformers	Measurement of winding resistance	IS 2026-11:2021/IEC 60076-11:2018; IS:11333:1985;IEC 60076-11
344	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type Transformers	Short Circuit test	IS 2026- 11:2021/IEC 60076-11:2018 ,IS:11333:1985;IEC 60076-11
345	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type transformers	Temperature rise test	IS 2026-11: 2021, IS 11171 : 1985 IS 11333 : 1985 IEC 60076-11: 2018
346	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers / Distribution Transformer / Autotransformer	Induced Voltage test with Partial discharge measurement	IS 2026 (Part-3) 2018, IEC 60076-3
347	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers, Auto transformers	Measurement of no load current harmonics	IS: 2026 (Part-1), 2011, IEC 60076-1
348	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers, Auto transformer and Distribution Transformers	Chopped Wave Lightning Impulse test	IS: 2026 (Part-1), 2011, IS: 2026 (Part-3), 2018; IS: 2026 (Part-5), 2011 ; IEC 60076-1, 2011; IEC 60076-3, 2013/AMD1 2018; IEC 60076-4, 2002; IEC 60076-8, 1997, IEEE C 57.12.00, 2021; IEEE C57.12.20:2017;IEEE C57.12.90:2022;IEEE C57.15:2017;IS 2026(PART 21):2018;IEC 60076-21



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	72 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
349	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers, Auto transformers	Zero Sequence impedance for three phase transformer.	IS: 2026 (Part-1), 2011; IEC 60076-1
350	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Ability to withstand the dynamic effects of short circuit (Short Circuit Test)	IS:2026-1:2011; IS:2026-5:2011; IEC:60076-1:2011; IEC:60076-5:2006; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE C57.12.90:2022 ; IEEE C57.15:2017, IEEE C57.12.20
351	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Acoustic Noise Level/ Sound Level determination	IS:2026-1:2011; IS:2026-10:2009/IEC 60076-10:2021, IS 2026-11:2021/IEC 60076-11:2018; IS:11333:1985; IEC:60076-1:2011; IEC:60076-10:2016; IEC:60076-10-1:2016+A1; IEEE C57.12.90
352	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Applied voltage test	IS:2026-1:2011; IS:2026-3:2018/IEC 60076-3:2013; IS:2026-5:2011; IEC 60076-1:2011; IEC:60076-3:2013+A1.20 18; IEC:60076-4:2002; IEC:60076-5:2006; IEC:60076-7:2018; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE C57.12.90:2022; IEEE C57.15:2017, IEEE C57.12.20:2017;IS 2026 (PART 21):2018;IEC 60076-21



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	73 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
353	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Induced over voltage Withstand test	IS:2026-1:2011; IS:2026-3:2018/IEC 60076-3:2013; IS:2026-5:2011; IEC:60076-1:2011; IEC:60076-3:2013+A1.20 18; IEC:60076-4:2002; IEC:60076-5:2006; IEC:60076-7:2018; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE C57.12.90:2022; IEEE C57.15:2017, IEEE C57.12.20:2017;IS 2026 (PART 21):2018;IEC 60076-21
354	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Lightning Impulse voltage withstand test	IS: 2026 (Part-1), 2011;IS: 2026 (Part-3), 2018; IS: 2026 (Part-5), 2011; IEC 60076-1, 2011; IEC 60076-3, 2013/AMD1 2018; IEC 60076-4, 2002; IEC 60076-8, 1997, 2018; IEEE C 57.12.00, 2021; IEEE C57.12.20, 2017;IEEE C57.12.90:2022;IEEE C57.15:2017;IS 2026(PART 21):2018;IEC 60076-21
355	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Measurement of voltage ratio and check of voltage vector relationship	IS:2026-1:2011;IS:2026-5: 2011; IEC:60076-1:2011; IEC:60076-5:2006; IEC:60076-7:2018; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE C57.12.90:2022; IEEE C57.15:2017, IEEE C57.12.20:2017;IS 2026 (PART 21):2018;IEC 60076-21



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	74 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
356	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Measurement of Impedance Voltage/Short Circuit Impedance And Load Loss	IS:2026-1:2011; IS:2026-5:2011; IEC:60076-1:2011; IEC:60076-5:2006; IEC:60076-7:2018; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE C57.12.90:2022; IEEE C57.15:2017, IEEE C57.12.20
357	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Measurement of Insulation Resistance	IS:2026-1:2011; IS:2026-3:2018/IEC 60076-3:2013; IS:2026-5:2011; IEC:60076-1:2011; IEC:60076-3:2013+A1.20 18; IEC:60076-5:2006; IEC:60076-7:2018; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE C57.12.90:2022; IEEE C57.15:2017, IEEE C57.12.20:2017;IS 2026(PART 21):2018;IEC 60076-21
358	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto transformer	Measurement of No-Load Loss and Current	IS:2026-1:2011; IS:2026-3:2018/IEC 60076-3:2013; IS:2026-5:2011; IEC:60076-1:2011; IEC:60076-3:2013+A1.20 18; IEC:60076-5:2006; IEC:60076-7:2018; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE C57.12.90:2022; IEEE C57.15:2017, IEEE C57.12.20:2017;IS 2026 (PART 21):2018;IEC 60076-21



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	75 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
359	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto transformer	Measurement of Winding Resistance	IS:2026-1:2011; IS:2026-5:2011; IEC:60076-1:2011; IEC:60076-5:2006; IEC:60076-7:2018; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE C57.12.90:2022; IEEE C57.15:2017, IEEE C57.12.20:2017;IS 2026 (PART 21):2018;IEC 60076-21
360	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto transformer	Switching Impulse Voltage Withstand	IS: 2026 (Part-1), 2011, IS: 2026 (Part-3), 2018; IEC 60076-1: 2011; IEC 60076-3:2013/AMD1 2018; IEC 60076-4: 2002; IEC 60076-8, 1997; IEEE C 57.12.90, 2022; IEEE C57.12.20-2017; IEEE C57.12.00:2021;IEEE C57.15:2017;IS 2026 (Part 21):2018;IEC 60076-21
361	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto transformer	Temperature rise test	IS: 2026 (Part-1), 2011; IS: 2026 (Part-2), 2010, IEC 60076-1, 2011; IEC 60076-2, 2011; IEC 60076-8:1997;IEEE C57.12.00:2021;IEEE C57.12.90:2022;IEEE C57.15:2017;IEEE C57.12.20:2017;IS 2026 (PART 21):2018;IEC 60076-21



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	76 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
362	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto transformer	Thermal ability to withstand short circuit	IS:2026-1:2011; IS:2026-5:2011; IEC 60076-1:2011; IEC:60076-5:2006; IEEE C57.12.00:2021; IEEE C57.12.90:2022 ; IEEE C57.15:2017, IEEE C57.12.20
363	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactor	Winding Resistance	IS:2026-1:2011; IS:2026-6:2017/IEC 60076-6:2007; IEC:60076-1:2011; IEC:60076-6:2007; IEEE Std C57.32
364	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Applied voltage test	IS:2026-1:2011; IS:2026-6:2017/IEC 60076-6:2007; IEC:60076-1:2011; IEC:60076-6:2007; IEEE Std C57.32
365	ELECTRICAL-INDUCTORS & TRANSFORMERS	REACTORS	Chopped wave lightning impulse test	IS 2026-6: 2017, IEC 60076-6:2007;IS 2026-1:2011;IEC 60076-1:2011;IS 2026-6:2017/IEC 60076-6:2007;IEEE C57.32
366	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Impedance Voltage/Short Circuit Impedance (Principal Tapping) and Load Loss	IS:2026-1:2011; IS:2026-6:2017/IEC 60076-6:2007; IEC:60076-1:2011; IEC:60076-6:2007; IEEE Std C57.32
367	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Induced voltage withstand test	IS:2026-1:2011; IS:2026-6:2017/IEC 60076-6:2007; IEC:60076-1:2011; IEC:60076-6:2007; IEEE Std C57.32



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	77 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
368	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Insulation Resistance	IS:2026-1:2011; IS:2026-6:2017/IEC 60076-6:2007; IEC:60076-1:2011; IEC:60076-6:2007; IEEE Std C57.32
369	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Lightning Impulse Voltage Withstand	IS: 2026 (Part-1), 2011, IS 2026:part-6:2017 ; IEC 60076-1,; 2011, IEC:60076-6, 2007;IS:2026-6:2017/IEC 60076-6:2007;IEEE C57.32
370	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Measurement of voltage ratio and check of phase displacement	IS:2026-1:2011; IS:2026-6:2017/IEC 60076-6:2007; IEC:60076-1:2011; IEC:60076-6:2007; IEEE Std C57.32
371	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Short Time Withstand Current, Ability to withstand rated thermal and rated mechanical short-circuit current, Rated Short-circuit current test	IS:2026-1:2011; IS:2026-6:2017/IEC 60076-6:2007; IEC:60076-1:2011; IEC:60076-6:2007; IEEE Std C57.32
372	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Switching impulse Voltage Withstand test	IS 2026-6: 2017, IEC 60076-6:2007;IS 2026-1:2011;IEC 60076-1:2011;IS 2026-6:2017/IEC 60076-6:2007;IEEE C57.32



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	78 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
373	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Temperature Rise Test	IS: 2026 (Part-1), 2011, IS 2026:part-6:2017 ; IEC 60076-1,: 2011, IEC:60076-6:2007;IS:2026-6:2017/IEC 60076-6:2007;IEEE C57.32
374	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors, current limiting reactors, Earthing transformers	Demonstration of ability to withstand rated short-time neutral current-special test (Short Circuit Withstand Test)	IS:2026-1:2011; IS:2026-6:2017/IEC 60076-6:2007; IEC:60076-6
375	ELECTRICAL-INDUCTORS & TRANSFORMERS	Step Voltage regulator	Short circuit test	IS 2026(Part 21):2018/IEC 60076-21:2011/IEEE Std C57.15
376	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Ability to withstand the dynamic effects of short circuit (Short Circuit Test)	IEC 60310
377	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Applied voltage test	IEC 60310
378	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Induced voltage withstand test	IEC 60310
379	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction transformers	Insulation resistance	IEC 60310
380	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Lightning impulse voltage withstand test	IEC-60310, 2016
381	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Measurement of no-load loss & current	IEC 60310
382	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Measurement of short circuit impedance and load loss	IEC 60310



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	79 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
383	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction transformers	Measurement of sound level	IEC 60310
384	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Measurement of voltage ratio & check of phase displacement	IEC 60310
385	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Measurement of winding resistance	IEC 60310
386	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Permissible Flux Density & Over fluxing	IEC 60310
387	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Temperature rise test	IEC 60310:2016
388	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Short circuit withstand capability	IS:16227(Part -1)-2016/IEC:61869-1:2023, IS:16227(Part -3)-2015/IEC:61869-3:2011, IS:16227(Part -4)-2015/IEC:61869-4:2013, IS:16227(Part -5)-2015/IEC:61869-5:2011, IEC: 61869-1, 2023; IEC: 61869-3, 2011; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13:2016, IEEE C57.13.5



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	80 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
389	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage Transformers & CVT	Chopped Lightning impulse Voltage Test On Primary Winding	IEC: 61869-1, 2007; IEC: 61869-3, 2012; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4), IS 16227(part-5)
390	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Enclosure tightness test at the ambient temperature	IEC: 61869-1, 2023; IEC: 61869-3, 2012; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4), IS 16227(part-5)E
391	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	High voltage Power Frequency Test (Dry and Wet)	IEC: 61869-1, 2007; IEC: 61869-3, 2012; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4), IS 16227(part-5)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	81 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
392	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Induced Voltage Withstand test	IEC: 61869-1, 2023; IEC: 61869-3, 2012; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4), IS 16227(part-5)
393	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage Transformers & CVT	Lightning impulse Voltage Test Capacitive Voltage Transformer	IEC: 61869-1, 2007; IEC: 61869-3, 2012; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4), IS 16227(part-5)
394	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Partial Discharge	IEC: 61869-1, 2007; IEC: 61869-3, 2012; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4), IS 16227(part-5)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	82 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
395	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Switching impulse Voltage Withstand on primary Winding (Dry)	IEC: 61869-1, 2007; IEC: 61869-3, 2012; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4), IS 16227(part-5)
396	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Temperature rise	IEC: 61869-1, 2023; IEC: 61869-3, 2012; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4), IS 16227(part-5)
397	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Terminal Marking & Polarity	IEC: 61869-1, 2023; IEC: 61869-3, 2012; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4), IS 16227(part-5)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	83 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
398	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Verification of the degree of Protection by enclosures.(Verification of IP coding and Mechanical impact test)	IEC: 61869-1:2023; IS/IEC 60529-2001, IEC 60529-2013;IEC: 61869-3, 2012; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4), IS 16227(part-5)
399	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Voltage Error and phase Displacement	IEC: 61869-1: 2023; IEC: 61869-3, 2012; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4), IS 16227(part-5)
400	ELECTRICAL-INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Breakdown voltage	IS 1866:2017 / IEC 60422:2013, IEC 60156
401	ELECTRICAL-INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Dielectric dissipation factor (DDF) at 90°C	IS 1866:2017 / IEC 60422:2013, IEC 60247
402	ELECTRICAL-INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Resistivity at 90°C	IS 1866:2017 / IEC 60422:2013, IEC 60247
403	ELECTRICAL-INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Water Content	IS 1866:2017 / IEC 60422:2013, IEC 60814



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	84 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
404	ELECTRICAL-INSULATING MATERIALS & INSULATORS	New Mineral Insulating Oils	Breakdown voltage	IS 335:2018, IEC 60296:2020, IS 6792:2023/IEC 60156:1995, IEC 60156
405	ELECTRICAL-INSULATING MATERIALS & INSULATORS	New Mineral Insulating Oils	Dielectric dissipation factor (DDF) at 90 °C	IS 335-2018, IEC 60296-2020, IS 16086 2013, IEC 60247 2004, or IEC 61620: 1998, IS 16840
406	ELECTRICAL-INSULATING MATERIALS & INSULATORS	New Mineral Insulating Oils	Water Content	IS 335-2018, IEC 60296-2020, IEC 60814
407	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control	Residual operating Characteristics	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018 IEC-61008-1, 2013 (CSV), IEC-61008-2-1, 1990, IEC-61008-2-2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	85 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
408	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Making & breaking capacity	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016 , IEC-60947-1:2020, IEC-60947-2:2019, IEC-60947-3:2020, IEC-60947-4-1:2018, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	86 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
409	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Short-circuit at 1,1 times take-over current current	IS/IEC-60947-1:2007+A1:2015, IS/IEC-60947-2:2016, IS/IEC-60947-3:2012, IS/IEC-60947-4-1:2012, IS/IEC-60947-4-2:2011, IS/IEC-60947-5-1:2009, IEC-60947-1:2020, IEC-60947-2:2019, IEC-60947-3:2020, IEC-60947-4-1:2018, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2003, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	87 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
410	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Tripping Limits and Characteristics	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1:2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019,IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014,BSEN:60947-2:2017+A1:2020BSEN:60947-3:2009+A1:2012+A2
411	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Autoreclosure	Mechanical operation	IS/IEC 62271(Part1):2017,IS/IEC 62271(Part100):2021,IS/IEC 62271(Part111):2019,IEC 62271-1:2017,IEC 62271 100:2021, IEC62271-111:2019, ANSI/IEEE C-37.60
412	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Autoreclosures	Operating Duty	IEC:62271-100:2021, IS/IEC:62271-100:2021;IE C 62271:111:2019; IEEE/IEC C37.60/62271-111



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	88 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
413	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Autoreclosures	Short time current	IEC:62271-100:2021, IS/IEC:62271-100:2021;IE C 62271:111:2019; IEEE/IEC C37.60/62271-111
414	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Autoreclosures	Temperature rise	IS/IEC 62271(Part1):2017,IS/IEC 62271(Part100):2021,IS/IEC 62271(Part111):2019,IEC 62271-1:2017,IEC 62271 100:2021, IEC62271-111:2019, ANSI/IEEE C-37.60
415	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels. MCB boards. Distribution pillars, distribution fuse boards and cut out etc.	Verification of the short circuit withstand strength	IS 13032:1991+A1:1993+A 2:2017; IS 8084:1976+A1:1979+A2: 1979+A3:1981; IS 5039:1983+A1.1997; IS 2675:1983; IS 8623:Part 2:1993+A1.1993; IS 8623:Part 3:1993+A1.1997; IS/IEC 61439-0:2010; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC/TS 61439-7:2014; IS/IEC60947-1:2020; IEC 61439-1 2020; IEC 61439-2 2020; IEC 61439-3:2012; IEC 61439-4:2012; IEC 61439-5:2014; IEC 61439-6 2012; IEC 60947-1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	89 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
416	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Ability to withstand mechanical load	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23
417	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Conductors covered by insulating material to provide protection against electric shock	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5181

Validity 10/06/2024 to 09/06/2026

Page No 90 of 212

Last Amended on 28/08/2025

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
418	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	External operation handles of insulating material	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23
419	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Testing of enclosures made of insulating material	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	91 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
420	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Degree of protection of assemblies	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23
421	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Impulse withstand voltage test	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23: 2003



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	92 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
422	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Mechanical operation- ON-OFF Operations of switchgears conducted as per standard	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23
423	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Mechanical operation, Verification of Mechanical operation-- ON-OFF manual operations on switchgears conducted as per standard	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	93 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
424	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Power-frequency withstand voltage	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23
425	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Temperature Rise	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5181

Page No

94 of 212

Validity

10/06/2024 to 09/06/2026

Last Amended on

28/08/2025

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
426	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Temperature Rise	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23
427	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Verification of Clearances and creepage distance	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	95 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
428	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Verification of clearances and creepage distance	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23
429	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Impulse withstand voltage test	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	96 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
430	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Lifting-Verification by test	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1.1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23
431	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Marking	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1.1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	97 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
432	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Marking-Verification by test	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23
433	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Mechanical impact (IK)	,IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC60947-1,2021 IEC 60529, 2013 IEEE C37.23



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	98 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
434	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Mechanical Impact (IK)	IS 13032 : 1991+A1: 1991+ A2: 2017 RA2016 IS 8084,1976 + A1:1979+ A2: 1979+ A3: 1981 RA 2017, IS 5039,1983 A1-1997 RA2016, IS 2675, 1983 RA2016, IS 8623 : Part 2 : 1993+A1 :1993 RA2018 IS 8623 : Part 3 1993 +A1:1997RA2018 IS/IEC 61439:Part0:2010RA2020 IS/IEC 61439:Part1:2020, IS/IEC 61439:Part2:2020, IS/IEC 61439:Part3:2012 IS/IEC 61439:Part4:2012 IS/IEC 61439:Part5:2014 IS/IEC 61439:Part6:2012 IS/IEC/TS 61439:Part7:2014 IS/IEC60947-1, 2007+A1:2015
435	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Resistance to abnormal heat and fire due to internal electric effects	IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC60947-1,2021 IEC 60529, 2013 IEEE C37.23



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	99 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
436	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Resistance to abnormal heat and fire due to internal electric effects	IS 13032 : 1991+A1: 1991+ A2: 2017 RA2016 IS 8084,1976 + A1:1979+ A2: 1979+ A3: 1981 RA 2017, IS 5039,1983 A1-1997 RA2016, IS 2675, 1983 RA2016, IS 8623 : Part 2 : 1993+A1 :1993 RA2018 IS 8623 : Part 3 1993 +A1:1997RA2018 IS/IEC 61439:Part0:2010RA2020 IS/IEC 61439:Part1:2020, IS/IEC 61439:Part2:2020, IS/IEC 61439:Part3:2012 IS/IEC 61439:Part4:2012 IS/IEC 61439:Part5:2014 IS/IEC 61439:Part6:2012 IS/IEC/TS 61439:Part7:2014 IS/IEC60947-1, 2007+A1:2015
437	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Resistance to corrosion	IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC60947-1,2021 IEC 60529, 2013 IEEE C37.23



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	100 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
438	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Resistance to corrosion	IS 13032 : 1991+A1: 1991+ A2: 2017 RA2016 IS 8084,1976 + A1:1979+ A2: 1979+ A3: 1981 RA 2017, IS 5039,1983 A1-1997 RA2016, IS 2675, 1983 RA2016, IS 8623 : Part 2 : 1993+A1 :1993 RA2018 IS 8623 : Part 3 1993 +A1:1997RA2018 IS/IEC 61439:Part0:2010RA2020 IS/IEC 61439:Part1:2020, IS/IEC 61439:Part2:2020, IS/IEC 61439:Part3:2012 IS/IEC 61439:Part4:2012 IS/IEC 61439:Part5:2014 IS/IEC 61439:Part6:2012 IS/IEC/TS 61439:Part7:2014 IS/IEC60947-1, 2007+A1:2015
439	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Short-time withstand current	IEEE C37.23
440	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Terminals for external conductors	IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC60947-1,2021 IEC 60529, 2013 IEEE C37.23



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	101 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
441	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Terminals for external conductors	IS 13032 : 1991+A1: 1991+ A2: 2017 RA2016 IS 8084,1976 + A1:1979+ A2: 1979+ A3: 1981 RA 2017, IS 5039,1983 A1-1997 RA2016, IS 2675, 1983 RA2016, IS 8623 : Part 2 : 1993+A1 :1993 RA2018 IS 8623 : Part 3 1993 +A1:1997RA2018 IS/IEC 61439:Part0:2010RA2020 IS/IEC 61439:Part1:2020, IS/IEC 61439:Part2:2020, IS/IEC 61439:Part3:2012 IS/IEC 61439:Part4:2012 IS/IEC 61439:Part5:2014 IS/IEC 61439:Part6:2012 IS/IEC/TS 61439:Part7:2014 IS/IEC60947-1, 2007+A1:2015
442	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Testing of enclosures made of insulating material- Power frequency withstand voltage test	IS 8623 : Part 2 : 1993+A1 :1993 IS 8623 : Part 3 1993 +A1:1997, IS/IEC 61439:Part0:2010 IS/IEC 61439:Part1:2020, IS/IEC 61439:Part2:2020, IS/IEC 61439:Part3:2012 IS/IEC 61439:Part4:2012 IS/IEC 61439:Part5:2014 IS/IEC 61439:Part6:2012 IS/IEC/TS 61439:Part7:2014 IS/IEC60947-1, 2007+A1:2015



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	102 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
443	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Thermal stability	,IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4:2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC60947-1,2021 IEC 60529, 2013 IEEE C37.23
444	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Thermal stability	IS 13032 : 1991+A1: 1991+ A2: 2017 RA 2016 IS 8084,1976 + A1:1979+ A2: 1979+ A3: 1981 RA 2017, IS 5039,1983 A1-1997 RA2016, IS 2675, 1983 RA2016, IS 8623 : Part 2 : 1993+A1 :1993 RA2018 IS 8623 : Part 3 1993 +A1:1997RA2018 IS/IEC 61439:Part0:2010RA2020 IS/IEC 61439:Part1:2020, IS/IEC 61439:Part2:2020, IS/IEC 61439:Part3:2012 IS/IEC 61439:Part4:2012 IS/IEC 61439:Part5:2014 IS/IEC 61439:Part6:2012 IS/IEC/TS 61439:Part7:2014 IS/IEC60947-1, 2007+A1:2015
445	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Verification of the protective circuit	IEEE C37.23



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	103 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
446	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels. MCB boards. Distribution pillars, distribution fuse boards and cut out etc.	Short time current test	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS 2675:1983; IS 8623:Part 2:1993+A1:1993; IS 8623:Part 3:1993+A1:1997; IS/IEC 61439-0:2010; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC/TS 61439-7:2014; IS/IEC60947-1:2007+A1:2015; IEC 61439-1 2020; IEC 61439-2 2020; IEC 61439-3:2012; IEC 61439-4-2012; IEC 61439-5:2014; IEC 61439-6 2012; IEC60947-1:2020; IEC 60529



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	104 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
447	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels. MCB boards. Distribution pillars, distribution fuse boards and cut out etc.	Testing under condition of arcing due to internal fault	IS 13032:1991+A1:1993+A 2:2017; IS 5039:1983+A1.1997; IS 2675:1983; IS 8623:Part 2:1993+A1.1993; IS 8623:Part 3:1993+A1.1997; IS/IEC 61439-0:2010; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC/TS 61439-7:2014; IS/IEC60947-1:2007+A1:2 015; IEC 61439-1 2020; IEC 61439-2 2020; IEC 61439-3:2012; IEC 61439-4:2012; IEC 61439-5:2014; IEC 61439-6 2012; IEC60947-1:2020; IEC 60529



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	105 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
448	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels. MCB boards. Distribution pillars, distribution fuse boards and cut out etc.	Verification of the protective circuit	IS 13032:1991+A1:1993+A2:2017; IS 8084:1976+A1:1979+A2:1979+A3:1981; IS 5039:1983+A1:1997; IS 2675:1983; IS 8623:Part 2:1993+A1:1993; IS 8623:Part 3:1993+A1:1997; IS/IEC 61439-0:2010; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC/TS 61439-7:2014; IS/IEC60947-1:2007+A1:2015; IEC 61439-1 2020; IEC 61439-2 2020; IEC 61439-3:2012; IEC 61439-4-2012; IEC 61439-5:2014; IEC 61439-6 2012; IEC60947-1:2020; IEC 60529



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	106 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
449	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnecter and Earthing Switches	Making Performance of Earthing switches	IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IS/IEC 62271-1:2007, IS/IEC 62271-100:2021, IS/IEC 62271-102:2018, IS/IEC 62271-103:2011, IEEE C37.09:2018 CoR.1-2021, IEEE/IEC C37.60/62271-111-2019, IEEE C37.30.1
450	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnectors and Earthing switches	Resistance of main circuit	IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IS/IEC 62271-1:2017, IS/IEC 62271-100:2021, IS/IEC 62271-102:2018, IS/IEC 62271-103:2021, IEEE C37.09:2018 CoR.1-2021, IEEE/IEC C37.60/62271-111-2019, IEEE C37.30.1
451	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnectors and Earthing switches	Lightning impulse voltage tests, Power-frequency voltage withstand tests	IS/IEC 62271 (Part 1), 2017, IS/IEC 62271(Part 102), 2018, IEC 62271-1, 2017 IEC 62271-102, 2018. IEEE Std C37.30, 1997 IEEE Std C37.09, 1993 IEEE Std C37.32, 2002, IEEE Std C37.23, 2003 IEEE Std C37.34



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	107 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
452	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnectors and Earthing switches	Lightning Impulse Voltage Withstand (Upto 400 kV Class)	IS/IEC 62271 (Part 1),2017; IS/IEC 62271(Part 102)-2018; IEC 62271-1, 2017 IEC 62271-102, 2018. IEEE StdC37.30, 1997 IEEE Std C37.09, 1993 IEEE Std C37.32,2002, IEEE Std C37.23,2003 IEEE Std C37.34
453	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnectors and Earthing switches	Mechanical Endurance	IS/IEC 62271 (Part 1),2017; IS/IEC 62271(Part 102)-2018; IEC 62271-1, 2017 IEC 62271-102, 2018. IEEE StdC37.30, 1997 IEEE Std C37.09, 1993 IEEE Std C37.32,2002, IEEE Std C37.23,2003 IEEE Std C37.34
454	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnectors and Earthing switches	Short Time Withstand Current and Peak Withstand Current.	IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC 62271-102:2018,IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IS/IEC 62271-1:2007, IS/IEC 62271-100:2021, IS/IEC 62271-102:2018, IS/IEC 62271-103:2011, IEEE C37.09:2018 CoR.1-2021, IEEE/IEC C37.60/62271-111-2019, IEEE C37.30.1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	108 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
455	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnectors and Earthing switches	Switching impulse voltage test(dry)	IS/IEC 62271 (Part 1),2017; IS/IEC 62271(Part 102)-2018; IEC 62271-1, 2017 IEC 62271-102, 2018. IEEE StdC37.30, 1997 IEEE Std C37.09, 1993 IEEE Std C37.32,2002, IEEE Std C37.23,2003 IEEE Std C37.34
456	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnectors and Earthing switches	Temperature rise test	IS/IEC 62271 (Part 1),2017 ; IS/IEC 62271(Part 102), 2018; IEC 62271-1, 2017 IEC 62271-102, 2018. IEEE StdC37.30, 1997 IEEE Std C37.09, 1993 IEEE Std C37.32,2002, IEEE Std C37.23,2003 IEEE Std C37.34
457	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Fuses/ Distribution Fuse Boards and Cut outs	Time Current Characteristic	IS 9385 :Part 1:2018/IEC 60282- 1:2009; IS 9385:Part 2:2018/IEC 60282- 2:2008; IS:9385- 3:1980; IS:9385- 4:1983; IEC:60282- 1:2020; IEC:60282- 2:2008; IS/IEC 60947-1:2020; IEC 60947-1:2020; IS/IEC:60529:2001; IEC 60529- 1989+A1:1999+A2:2013; IEEE C37.40:2003; IEEE C37.41:2016; IEEE C37.42



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	109 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
458	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Fuses/ Distribution Fuse Boards and Cut-Outs	Shot Circuit Breaking Capacity	IS 9385 :Part 1:2018/IEC 60282- 1:2009; IS 9385:Part 2:2018/IEC 60282- 2:2008; IS:9385- 3:1980; IS:9385- 4:1983; IEC:60282- 1:2020; IEC:60282- 2:2008; IS/IEC 60947-1:2020; IEC 60947-1:2020; IEEE C37.40:2003; IEEE C37.41:2016; IEEE C37.42
459	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Fuses/ Distribution Fuse Boards and Cut-Outs	Dielectric test.	IS 9385 :Part 1:2018/IEC 60282- 1:2009; IS 9385:Part 2:2018/IEC 60282- 2:2008; IS:9385- 3:1980; IS:9385- 4:1983; IEC:60282- 1:2020; IEC:60282- 2:2008; IS/IEC 60947-1:2020; IEC 60947-1:2020; IS/IEC:60529:2001; IEC 60529- 1989+A1:1999+A2:2013; IEEE C37.40:2003; IEEE C37.41:2016; IEEE C37.42
460	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Fuses/ Distribution Fuse Boards and Cut-Outs	Temperature rise Test.	IS 9385 :Part 1:2018/IEC 60282- 1:2009; IS 9385:Part 2:2018/IEC 60282- 2:2008; IS:9385- 3:1980; IS:9385- 4:1983; IEC:60282- 1:2020; IEC:60282- 2:2008; IS/IEC 60947-1:2020; IEC 60947-1:2020; IS/IEC:60529:2001; IEC 60529- 1989+A1:1999+A2:2013; IEEE C37.40:2003; IEEE C37.41:2016; IEEE C37.42



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5181

Page No

110 of 212

Validity

10/06/2024 to 09/06/2026

Last Amended on

28/08/2025

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
461	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer / Capacitor Switch / Load Break Switch	Earth fault current test (TDef1)	IS/IEC:62271-1:2007, IS/IEC:62271-102:2018, IS/IEC 62271-100:2021, IS/IEC 62271-103:2011, IEC 62271-1:2017+A:1, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IEC 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-203:2022, IS/IEC 62271-200:2021, IEC 60529:1989+A1:1999+A 2:2013, IEEE C37.40:2003, IEEE C37.41:2016,IEEE 37.09:2018/Cor1-2021, IEEE C37.30.1 2011+A1.2017, IEEE C37.42



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	111 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
462	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer /Capacitor Switch / Load Break Switch	Cable- and line-charging current test under earth faults (TDef2)	IIS/IEC:62271-1:2007, IS/IEC:62271-102:2018, IS/IEC 62271-100:2021, IS/IEC 62271-103:2011, IEC 62271-1:2017+A:1, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IEC 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-203:2022, IS/IEC 62271-200:2021, IEC 60529:1989+A1:1999+A2:2013, IEEE C37.40:2003, IEEE C37.41:2016,IEEE 37.09:2018/Cor1-2021, IEEE C37.30.1 2011+A1.2017, IEEE C37.42
463	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Switching impulse voltage test(dry)	IS/IEC 62271 (Part 1),2017; IS/IEC 62271(Part 103)-2021, IEC 62271-1, 2017 . IEC 62271-103, 2021. IEEE StdC37.30, 1997 IEEE Std C37.09, 1993 IEEE Std C37.32,2002, IEEE Std C37.23,2003, IEEE Std C37.66-2021, IEEE Std C37.34



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	112 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
464	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Dielectric Tests (Wet & Dry)	IS/IEC 62271 (Part 1), 2017; IS/IEC 62271(Part 103)-2021, IEC 62271-1, 2017 . IEC 62271-103, 2021. IEEE Std C37.30, 1997 IEEE Std C37.09, 1993 IEEE Std C37.32, 2002, IEEE Std C37.23, 2003, IEEE Std C37.66-2021, IEEE Std C37.34
465	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Lightning Impulse Voltage Withstand (Upto 400 kV Class)	IS/IEC 62271 (Part 1)-2017; IS/IEC 62271(Part 103)-2021, IEC 62271-1, 2017 . IEC 62271-103, 2021. IEEE Std C37.30, 1997 IEEE Std C37.09, 1993 IEEE Std C37.32, 2002, IEEE Std C37.23, 2003, IEEE Std C37.66-2021, IEEE Std C37.34



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	113 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
466	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Making and Breaking Tests (Test Duties)	IS/IEC:62271-1:2007, IS/IEC:62271-102:2018, IS/IEC 62271-100:2021, IS/IEC 62271-103:2011, IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IEC 62271-106:2021, IEC 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-203:2022, IS/IEC 62271-200:2021, IEC 60529:1989+A1:1999+A2:2013, IEEE C37.40:2003, IEEE C37.41:2016,IEEE 37.09:2018/Cor1-2021, IEEE C37.30.1 2022, IEEE C37.42
467	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Mechanical endurance test	IS/IEC 62271 (Part 1)-2017; IS/IEC 62271(Part 103)-2021, IEC 62271-1, 2017 . IEC 62271-103, 2021. IEEE StdC37.30, 1997 IEEE Std C37.09, 1993 IEEE Std C37.32,2002, IEEE Std C37.23,2003, IEEE Std C37.66-2021, IEEE Std C37.34



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	114 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
468	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Rated Short Circuit Making Capacity	IS/IEC:62271-1:2007, IS/IEC:62271-102:2018, IS/IEC 62271-100:2021, IS/IEC 62271-103:2011, IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IEC 62271-106:2021; IEC 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-203:2022, IS/IEC 62271-200:2021, IEC 60529:1989+A1:1999+A 2:2013, IEEE C37.40:2003, IEEE C37.41:2016,IEEE 37.09:2018/Cor1-2021, IEEE C37.30.1 2022, IEEE C37.42



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	115 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
469	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Resistance of Main Circuit	IS/IEC:62271-1:2007, IS/IEC:62271-102:2018, IS/IEC 62271-100:2021, IS/IEC 62271-103:2011, IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IEC 62271-106:2021; IEC 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-203:2022, IS/IEC 62271-200:2021, IEC 60529:1989+A1:1999+A 2:2013, IEEE C37.40:2003, IEEE C37.41:2016,IEEE 37.09:2018/Cor1-2021, IEEE C37.30.1 2022, IEEE Std C37.66-2021, IEEE C37.42



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	116 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
470	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Short Time Withstand Current and Peak Withstand Current	IS/IEC:62271-1:2007, IS/IEC:62271-102:2018, IS/IEC 62271-100:2021, IS/IEC 62271-103:2011, IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IEC 62271-106:2021; IEC 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-203:2022, IS/IEC 62271-200:2021, IEC 60529:1989+A1:1999+A 2:2013, IEEE C37.40:2003, IEEE C37.41:2016,IEEE 37.09:2018/Cor1-2021, IEEE C37.30.1 2022, IEEE C37.42



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	117 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
471	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Single Capacitor Bank Switching	IS/IEC:62271-1:2007, IS/IEC:62271-102:2018, IS/IEC 62271-100:2021, IS/IEC 62271-103:2011, IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IEC 62271-106:2021, IEC 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-203:2022, IS/IEC 62271-200:2021, IEC 60529:1989+A1:1999+A2:2013, IEEE C37.40:2003, IEEE C37.41:2016,IEEE 37.09:2018/Cor1-2021, IEEE C37.30.1 2022, IEEE C37.42
472	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Temperature Rise	IS/IEC 62271 (Part 1)-2017; IS/IEC 62271(Part 103)-2021, IEC 62271-1, 2017 . IEC 62271-103, 2021. IEEE StdC37.30, 1997 IEEE Std C37.09, 1993 IEEE Std C37.32,2002, IEEE Std C37.23,2003, IEEE Std C37.66-2021, IEEE Std C37.34



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	118 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
473	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V, Circuit Breaker & Switchgear Panel With Circuit Breaker	Measurement of the resistance of the main circuit.	IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC: 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-202:2022 IEC 62271-203:2022, IEC 60077-1:2017, IEC 60077-2:2017, IEC 60077-4:2019, IEC 60529:1989+A1:1999+A 2:2013, IS/IEC 62271-1:2007, IS/IEC 62271-100:2021, IS/IEC 62271-200:2021, IS/IEC 62271-102:2003, BS 6581:1985/IEC60694:198 0, IEEE C37.09:2018 CoR.1-2021, IEEE/IEC C37.60/62271-111



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	119 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
474	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V, Circuit Breaker & Switchgear Panel With Circuit Breaker	Inductive Load Current Switching	IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC: 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-202:2022 IEC 62271-203:2022, IEC 60077-1:2017, IEC 60077-2:2017, IEC 60077-4:2019,IEC 60529:1989+A1:1999+A 2:2013, IS/IEC 62271-1:2007, IS/IEC 62271-100:2021, IS/IEC 62271-200:2021, IS/IEC 62271-102:2003, BS 6581:1985/IEC60694:198 0, IEEE C37.09:2018 CoR.1-2021, IEEE/IEC C37.60/62271-111



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	120 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
475	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V, Circuit Breaker & Switchgear Panel With Circuit Breaker	Internal Arc Test	IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC: 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-202:2022 IEC 62271-203:2022, IEC 60077-1:2017, IEC 60077-2:2017, IEC 60077-4:2019,IEC 60529:1989+A1:1999+A 2:2013, IS/IEC 62271-1:2007, IS/IEC 62271-100:2021, IS/IEC 62271-200:2021, IS/IEC 62271-102:2003, BS 6581:1985/IEC60694:198 0, IEEE C37.09:2018 CoR.1-2021, IEEE std C37.20.7 2017, IEEE/IEC C37.60/62271-111



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	121 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
476	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V, Circuit Breaker & Switchgear Panel With Circuit Breaker	Lighning Impulse Voltage withstand	IEC 62271-100:2021. IEC 62271-110,2017. IEC 62271-102,2018 IEC 62271-200,2021. IEC 62271-201, 2022. IEC 62271-202, 2022 IEC 62271- 203, 2011. IEC 62271-1, 2017. IEC 60077-2,2017. IEC 60077-4,2019 BS 6581,1985/IEC 694, 1980.IS/IEC 62271 (part-1),2017.IS/IEC 62271 (part-100), 2021, IS/IEC 62271(part-200), 2021.IS/IEC 62271 (part-102), 2018. IS/IEC 62271-201:2006 . IS/IEC 62271-202:2022 . IS/IEC 62271-203:2022, IEEE Std C37.09



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	122 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
477	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V, Circuit Breaker & Switchgear Panel With Circuit Breaker	Mechanical Operation at Ambient Air Temperature	IEC 62271-100:2021. IEC 62271-110,2017. IEC 62271-102,2018 IEC 62271-200,2021. IEC 62271-201, 2022. IEC 62271-202, 2022 IEC 62271- 203, 2011. IEC 62271-1, 2017. IEC 60077-2,2017. IEC 60077-4,2019 BS 6581,1985/IEC 694, 1980.IS/IEC 62271 (part-1),2017.IS/IEC 62271 (part-100), 2021, IS/IEC 62271(part-200), 2021.IS/IEC 62271 (part-102), 2018. IS/IEC 62271-201:2006 . IS/IEC 62271-202:2022 . IS/IEC 62271-203:2022 IEEE Std C37.09



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	123 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
478	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V, Circuit Breaker & Switchgear Panel With Circuit Breaker	Temperature rise test (0-25KA)	IEC 62271-100:2021. IEC 62271-110,2017. IEC 62271-102,2018 IEC 62271-200,2021. IEC 62271-201, 2022. IEC 62271-202, 2022 IEC 62271- 203, 2011. IEC 62271-1, 2017. IEC 60077-2,2017. IEC 60077-4,2019 BS 6581,1985/IEC 694, 1980.IS/IEC 62271 (part-1),2017.IS/IEC 62271 (part-100), 2021, IS/IEC 62271(part-200), 2021.IS/IEC 62271 (part-102), 2018. IS/IEC 62271-201:2006 . IS/IEC 62271-202:2022 . IS/IEC 62271-203:2022 IEEE Std C37.09



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	124 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
479	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V, Circuit Breaker & Switchgear Panel With Circuit Breaker	Verification of the degree of Protection by enclosures.(Verification of IP coding and Mechanical impact test)	IEC 62271-100:2021. IEC 62271-110,2017. IEC 62271-102,2018 IEC 62271-200,2021. IEC 62271-201, 2022. IEC 62271-202, 2022 IEC 62271- 203, 2011. IEC 62271-1, 2017. IEC 60077-2,2017. IEC 60077-4,2019 BS 6581,1985/IEC 694, 1980.IS/IEC 62271 (part-1),2017.IS/IEC 62271 (part-100), 2021, IS/IEC 62271(part-200), 2021.IS/IEC 62271 (part-102), 2018. IS/IEC 62271-201:2006 . IS/IEC 62271-202:2022 . IS/IEC 62271-203:2022, IEC 60529: 2013, IS/IEC 60259: 2001, IEC 62262: 2002, IEEE Std C37.09



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	125 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
480	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V. Circuit Breaker & Switchgear Panel with Circuit Breaker	No-load operation	IEC 62271-1:2017, IEC 62271-100:2021, IEC; 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-202:2022, IEC 62271-203:2011, IEC 60077-1:2017, IEC 60077-2:2017, IEC 60077-4:2019, IEC 60529:1989+A1:1999+A 2:2013, IS/IEC 62271-1:2017, IS/IEC 62271-100:2021, IS/IEC 62271-200:2021, IS/IEC 62271-102:2018, BS 6581:1985/IEC60694:198 0, IEEE C37.09:2018 Cor.1-2021, IEEE/IEC C37.60/62271-111



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	126 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
481	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V. Circuit Breaker & Switchgear Panel with Circuit Breaker	Switching impulse voltage test(dry)	IEC 62271-100:2021. IEC 62271-110,2017. IEC 62271-102,2018 IEC 62271-200,2021. IEC 62271-201, 2022. IEC 62271-202, 2022 IEC 62271- 203, 2011. IEC 62271-1, 2017. IEC 60077-2,2017. IEC 60077-4,2019 BS 6581,1985/IEC 694, 1980.IS/IEC 62271 (part-1),2017.IS/IEC 62271 (part-100), 2021, IS/IEC 62271(part-200), 2021.IS/IEC 62271 (part-102), 2018. IS/IEC 62271-201:2006 . IS/IEC 62271-202:2022 . IS/IEC 62271-203:2022, IEC 60529: 2013, IS/IEC 60259: 2001, IEC 62262: 2002, IEEE Std C37.09



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	127 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
482	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V. Circuit breaker & switchgear panel with circuit breaker	Terminal Fault Tests (Short circuit making and breaking), Single-phase and double-earth fault tests and Out-of-phase making and breaking tests	IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC: 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-202:2022 IEC 62271-203:2022, IEC 60077-1:2017, IEC 60077-2:2017, IEC 60077-4:2019, IEC 60529:1989+A1:1999+A 2:2013, IS/IEC 62271-1:2007, IS/IEC 62271-100:2021, IS/IEC 62271-200:2021, IS/IEC 62271-102:2003, BS 6581:1985/IEC60694:198 0, IEEE C37.09:2018 CoR.1-2021, IEEE/IEC C37.60/62271-111



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	128 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
483	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V. Circuit Breaker & Switchgear Panel with Circuit Breaker	Capacitive Current Switching (Line Charging, Cable charging & Capacitor bank current) & Single Phase Capacitive Current (Line Charging, Cable charging & Capacitor bank current)	IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC: 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-202:2022 IEC 62271-203:2022, IEC 60077-1:2017, IEC 60077-2:2017, IEC 60077-4:2019, IEC 60529:1989+A1:1999+A 2:2013, IS/IEC 62271-1:2007, IS/IEC 62271-100:2021, IS/IEC 62271-200:2021, IS/IEC 62271-102:2003, BS 6581:1985/IEC60694:198 0, IEEE C37.09:2018 CoR.1-2021, IEEE/IEC C37.60/62271-111



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	129 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
484	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V. Circuit Breaker & Switchgear Panel with Circuit Breaker	Dielectric test (Wet/Dry): power frequency withstand voltage test	IEC 62271-100:2021. IEC 62271-110,2017. IEC 62271-102,2018 IEC 62271-200,2021. IEC 62271-201, 2022. IEC 62271-202, 2022 IEC 62271- 203, 2011. IEC 62271-1, 2017. IEC 60077-2,2017. IEC 60077-4,2019 BS 6581,1985/IEC 694, 1980.IS/IEC 62271 (part-1),2017.IS/IEC 62271 (part-100), 2021, IS/IEC 62271(part-200), 2021.IS/IEC 62271 (part-102), 2018. IS/IEC 62271-201:2006 . IS/IEC 62271-202:2022 . IS/IEC 62271-203:2022, IEC 60529: 2013, IS/IEC 60259: 2001, IEC 62262: 2002, IEEE Std C37.09



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	130 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
485	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V. Circuit Breaker & Switchgear Panel with Circuit Breaker	Short Time Withstand Current & peak Withstand Current	IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC: 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-202:2022 IEC 62271-203:2022, IEC 60077-1:2017, IEC 60077-2:2017, IEC 60077-4:2019, IEC 60529:1989+A1:1999+A2:2013, IS/IEC 62271-1:2007, IS/IEC 62271-100:2021, IS/IEC 62271-200:2021, IS/IEC 62271-102:2003, BS 6581:1985/IEC60694:1980, IEEE C37.09:2018 CoR.1-2021, IEEE/IEC C37.60/62271-111
486	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Contactor	Rated Making and Breaking Capacity	IS/IEC 62271-106 : 2021; IS: 5561:2018+A1:2023; IEC 62271-1, 2017+A1:2021; IEC 62271-106:2021, IEEE/IEC C37.60/62271-111
487	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Contactor / HT Connector	Short Time Current	IS/IEC 62271-106 : 2021; IS: 5561:2018+A1:2023; IEC 62271-1, 2017+A1:2021; IEC 62271-106:2021, IEEE/IEC C37.60/62271-111
488	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Contactor / HT Connector	Power frequency withstand test (Dielectric test)	IS/IEC 60470: 2000, IS 5561:2018, IEC 62271 - 1:2017, IEC 62271 - 106



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	131 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
489	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Contactor / HT Connector	Dielectric Test	IS/IEC 60470: 2000,IS 5561:2018,IEC 62271 - 1:2017, IEC 62271 - 106
490	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Contactor/ HT Connector	Dimensions	IS/IEC 60470: 2000,IS 5561:2018,IEC 62271 - 1:2017, IEC 62271 - 106
491	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Contactor/ HT Connector	Mechanical Endurance	IS/IEC 60470: 2000,IS 5561:2018,IEC 62271 - 1:2017, IEC 62271 - 106
492	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Contactor/ HT Connector	Temperature Rise Test	IS/IEC 60470: 2000,IS 5561:2018,IEC 62271 - 1:2017, IEC 62271 - 106
493	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Fuses / Distribution fuse boards and cut outs	Power Dissipation	IS 9385 :Part 1:2018/IEC 60282- 1:2009; IS 9385:Part 2:2018/IEC 60282- 2:2008; IS:9385- 3:1980; IS:9385- 4:1983; IEC:60282- 1:2020; IEC:60282- 2:2008; IS/IEC 60947-1:2020; IEC 60947-1:2020; IS/IEC:60529:2001; IEC 60529- 1989+A1:1999+A2:2013; IEEE C37.40:2003; IEEE C37.41:2016; IEEE C37.42



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	132 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
494	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Fuses/ Distribution fuse boards and cut outs	Creepage distance and clearance	IS 9385 :Part 1:2018/IEC 60282- 1:2009; IS 9385:Part 2:2018/IEC 60282- 2:2008; IS:9385- 3:1980; IS:9385- 4:1983; IEC:60282- 1:2020; IEC:60282- 2:2008; IS/IEC 60947-1:2020; IEC 60947-1:2020; IS/IEC:60529:2001; IEC 60529- 1989+A1:1999+A2:2013; IEEE C37.40:2003; IEEE C37.41:2016; IEEE C37.42
495	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Fuses/ Distribution fuse boards and cut outs	Degrees of Protection	IS 9385 :Part 1:2018/IEC 60282- 1:2009; IS 9385:Part 2:2018/IEC 60282- 2:2008; IS:9385- 3:1980; IS:9385- 4:1983; IEC:60282- 1:2020; IEC:60282- 2:2008; IS/IEC 60947-1:2020; IEC 60947-1:2020; IS/IEC:60529:2001; IEC 60529- 1989+A1:1999+A2:2013; IEEE C37.40:2003; IEEE C37.41:2016; IEEE C37.42: 2016



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	133 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
496	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Moisture and Humidity Test / Reliability (Climatic test)	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1: 2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, IS 12640-1:2016+A4:2018, IS 12640-2:2016+A3:2018 & IEC 61008-1:2013 CSV, IEC 61009-1:CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	134 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
497	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Performance under Conditional short Circuit current	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	135 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
498	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of rated making and breaking capacities, change over ability and reversibility	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	136 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
499	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control	Condition of Arcing Due to Internal Fault	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	137 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
500	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control	Controls, Sequence and Limits of Operation	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1: 2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, IS 12640-1:2016+A4:2018, IS 12640-2:2016+A3:2018 & IEC 61008-1:2013 CSV, IEC 61009-1:CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	138 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
501	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Fuse protected short circuit withstand	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	139 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
502	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Short circuit at selectivity limit current	IS 12640:Part 1:2016/IEC 61008-1: 2012+A1:2016+A2:2018 +A3:2018+A4:2018, IS 12640-2:2016/IEC 61009-1 : 2012+A1:2016+A2:2018 +A3:2018, IEC 61008-1:2010+A1:2012+ A2:2013, IEC-61008-2-1:1990, IEC-61008-2-2:1990, IS/IEC-60898-1:2015, IS/IEC-60898-2:2003, IEC-60898-1:2015+A1:20 19, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2 011+A2:2014; BSEN:60947-2:2017+A1:2 020; BSEN:60947-3:2009+A1:2 012;+A2:
503	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	28-day Testing	IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC-61009-1, 2013 CSV
504	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Ageing of electronic Component	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1, 2013 (CSV)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	140 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
505	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Behaviour of RCCB In Case of Earth Fault Current Comprising a D.C. Component	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1, 2013 (CSV)
506	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	behavioyur of The RCCB In Case of Failure of The Line Voltage	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1, 2013 (CSV)
507	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Ciruit Fault Current	IS/IEC-60947-1:2007+A1:2015, IS/IEC-60947-2:2016, IS/IEC-60947-3:2012, IS/IEC-60947-4-1:2012, IS/IEC-60947-4-2:2011, IS/IEC-60947-5-1:2009, IEC-60947-1:2020, IEC-60947-2:2019, IEC-60947-3:2020, IEC-60947-4-1:2018, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2003, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	141 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
508	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Clearances and Creepage Distances	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1: 2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, IS 12640-1:2016+A4:2018, IS 12640-2:2016+A3:2018 & IEC 61008-1:2013 CSV, IEC 61009-1:CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5181

Page No

142 of 212

Validity

10/06/2024 to 09/06/2026

Last Amended on

28/08/2025

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
509	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Condition of Arcing Due to Internal Fault	IS 12640:Part 1:2016/IEC 61008-1: 2012+A1:2016+A2:2018 +A3:2018+A4:2018, IS 12640-2:2016/IEC 61009-1 : 2012+A1:2016+A2:2018 +A3:2018, IEC 61008-1:2010+A1:2012+A2:2013, IEC-61008-2-1:1990, IEC-61008-2-2:1990, IS/IEC-60898-1:2015, IS/IEC-60898-2:2003, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011, BSEN:60947-2:2006+A1:2009, BSEN:60947-3:2009+A1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	143 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
510	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	conventional operational Performance	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1: 2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014, BSEN:60947-2:2017+A1:2020 BSEN:60947-3:2009+A1:2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	144 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
511	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Coordination at the rated making and breaking capacity	IS/IEC 60947-1 :2004, IS/IEC 60947-2 :2016 IS/IEC 60947-3:2012 IS/IEC 60947 - 4 - 1 ,2012 IS/IEC 60947 - 4 - 2 ,2011 IS/IEC 60947 - 5 - 1 ,2009, IEC 60947-1, 2020, IEC 60947-2, 2016:2016, IEC 60947-3, 2020, IEC 60947-4-1, 2018 , IEC 60947-4-2, 2020,IEC 60947-5-1 2016 , IEC 60947-7-1, 2009, IEC 60947-7-2, 2009 IS/IEC 60898-1, 2015, IS/IEC 60898-2, 2003, IEC 60898-1 2015, IEC 60898-2 2016 , IS 12640 : Part 1, 2016 , IS 12640 Part 2:
512	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Degree of protection of test device	IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC-61009-1: CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5181

Page No

145 of 212

Validity

10/06/2024 to 09/06/2026

Last Amended on

28/08/2025

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
513	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Dielectric Properties-- 1) Verification of impulse withstand voltage 2) Power-frequency withstand verification of solid insulation 3) Power-frequency withstand verification after switching and short-circuit tests 4) Verification of creepage distances 5) Verification of leakage current of equipment suitable for isolation	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1: 2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, IS 12640-1:2016+A4:2018, IS 12640-2:2016+A3:2018 & IEC 61008-1:2013 CSV, IEC 61009-1:CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	146 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
514	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Dielectric Verification- 1) Power-frequency withstand verification of solid insulation 2) Verification of leakage current of equipment suitable for isolation	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1: 2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:20 19, IEC-60898-2:2016, IS 12640-1:2016+A4:2018, IS 12640-2:2016+A3:2018 & IEC 61008-1:2013 CSV, IEC 61009-1:CSV
515	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Discrimination between SCPD and overload relay	IS/IEC-60947-1, 2007, IS/IEC-60947-2, 2016, IS/IEC-60947-3, 2012, IS/IEC-60947-4-1, 2012, IS/IEC-60947-4-2, 2011, IS/IEC-60947-5-1, 2009, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2018, IEC-60947-4-2,2020, IEC-60947-5-1,2016, IEC-60947-7-1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	147 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
516	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Environment Test -- Verification of Reliability- Climatic test, Resistance to humidity, Damp Heat Cycle test	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1: 2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, IS 12640-1:2016+A4:2018, IS 12640-2:2016+A3:2018 & IEC 61008-1:2013 CSV, IEC 61009-1:CSV
517	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Fuse protected short circuit making	IS/IEC 60898-1, 2015, IS/IEC 60898-2, 2003, IEC 60898-1 2015, IEC 60898-2 2016 , IS 12640 : Part 1, 2016 , IS 12640 : Part 2, 2016, IEC 61008-1, 2010 , A1-2012 , A2-2013, IEC 61008-2-1 1990, IEC 61008-2-2 1990, IEC 61009-1, 2010, A1-2012 , A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	148 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
518	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Indelibility of Marking	IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1: CSV
519	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Individual pole short circuit breaking capacity	IS 10027:2018, IEC 60755: 2017, IS 13032, 1991, IEC 60695-2-10; IS/IEC-60947-1, 2007, IS/IEC-60947-2, 2016, IS/IEC-60947-3, 2012, IS/IEC-60947-4-1, 2012, IS/IEC-60947-4-2, 2011, IS/IEC-60947-5-1, 2009, IEC-60947-1, 2020, IEC-60947-2, 2019, IEC-60947-3, 2020, IEC-60947-4-1, 2018, IEC-60947-4-2, 2020, IEC-60947-5-1, 2016, IEC-60947-7-1, 2009, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012; +A2:2015 IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2003, IEC-60898-1, 2015+A1, 2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	149 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
520	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Insulation Resistance (at max 1000vDC)	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A1:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019 IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, BSEN:60947-1:2007+A1:2 011+A2:2014; BSEN:60947-2:2017+A1:2 020; BSEN:60947-3:2009+A1:2 012;+A2:2015 IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	150 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
521	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	L V Switchgear and Control gear / LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A1:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019 IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, BSEN:60947-1:2007+A1:2 011+A2:2014; BSEN:60947-2:2017+A1:2 020; BSEN:60947-3:2009+A1:2 012;+A2:2015 IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	151 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
522	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Leakage Current (at max 5000v)	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A1:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019 IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2:2015 IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2
523	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Limiting Values of The Non Operating Currents Under Overcurrent Conditions	IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC-61009-1:CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	152 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
524	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Mechanical and Electrical Endurance	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1
525	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Mechanism/Trip Free Mechanism	IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1
526	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Non Interchangeability	IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	153 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
527	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Operation of the test device at the limits of rated voltage	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1 CSV
528	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Operational Performance Capability (electrical and mechanical endurance test both)	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	154 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
529	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Operational Performance- - Operational performance capability without current, Operational performance capability with current, Verification of mechanical and electrical endurance,	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5181

Page No

155 of 212

Validity

10/06/2024 to 09/06/2026

Last Amended on

28/08/2025

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
530	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Over Current Device Calibration Test	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5181

Validity 10/06/2024 to 09/06/2026

Page No 156 of 212

Last Amended on 28/08/2025

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
531	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Overload Performance	IS/IEC 60947-1 :2004+A1:2015 IS/IEC 60947-2 :2003 IS/IEC 60947-3:2012 IS/IEC 60947 - 4 - 1 ,2012 IS/IEC 60947 - 4 - 2 ,2011 IS/IEC 60947 - 5 - 1 ,2009, IEC 60947-1, 2007,A1:2010,A2:2014, IEC 60947-2, 2016:2016, IEC 60947-3, 2008,A1:2012+A2:2015 IEC 60947-4-1, 2018 , IEC 60947-4-2, 2011,IEC 60947-5-1 2016 , IEC 60947-7-1, 2009, IEC 60947-7-2, 2009 IS/IEC 60898-1, 2015, IS/IEC 60898-2, 2003, IEC 60898-1 2015, IEC 60898-2 2016 , IS 12640 : Part 1, 2016 , IS 12640 :



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	157 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
532	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Performance at Rated Short Circuit Capacity	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	158 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
533	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Performance under short circuit conditions	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	159 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
534	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Performance/ Behavior under short circuit conditions	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	160 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
535	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Protection Against Electric Shock (MCB/RCBO)	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	161 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
536	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Rated Earth Fault Breaking Current	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5181

Validity 10/06/2024 to 09/06/2026

Page No 162 of 212

Last Amended on 28/08/2025

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
537	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Rated residual making and breaking capacity	IS 12640:Part 1:2016/IEC 61008-1: 2012+A1:2016+A2:2018 +A3:2018+A4:2018, IS 12640-2:2016/IEC 61009-1 : 2012+A1:2016+A2:2018 +A3:2018, IEC 61008-1:2010+A1:2012+ A2:2013, IEC-61008-2-1:1990, IEC-61008-2-2:1990, IS/IEC-60898-1:2015, IS/IEC-60898-2:2003, IEC-60898-1:2015+A1:20 19, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2 011+A2:2014; BSEN:60947-2:2017+A1:2 020; BSEN:60947-3:2009+A1:2 012;+A2:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	163 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
538	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Rated service short circuit breaking capacity	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	164 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
539	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Rated ultimate short circuit breaking capacity	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012+A2
540	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Reliability at 40 °C	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1 CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5181

Validity 10/06/2024 to 09/06/2026

Page No 165 of 212

Last Amended on 28/08/2025

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
541	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Reliability of Screws, Current carrying Parts and Connectors	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	166 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
542	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Reliability of Screws, For External Conductors	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1
543	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Resistance Against Unwanted Tripping Due to Current	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1: CSV
544	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Resistance of The Insulation Against Impulse Voltages	IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC-61009-1: CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	167 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
545	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Resistance to Mechanical Shock and Impact	IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1: CSV
546	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Sensitivity	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1: CSV
547	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Service Short Circuit Capacity	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5181

Page No

168 of 212

Validity

10/06/2024 to 09/06/2026

Last Amended on

28/08/2025

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
548	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Service Short Circuit Capacity	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012+A2
549	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Shock	IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1: CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5181

Page No

169 of 212

Validity

10/06/2024 to 09/06/2026

Last Amended on

28/08/2025

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
550	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Short circuit Breaking capacity at Maximum short time withstand current	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	170 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
551	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Short circuit at ultimate short circuit breaking capacity	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	171 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
552	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Short circuit making capacity	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012+A2
553	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Short circuit Performance at I500A	IS/IEC 60898-1, 2015, IS/IEC 60898-2, 2003, IEC 60898-1 2015, IEC 60898-2 2016 , IS 12640 : Part 1, 2016 , IS 12640 : 1991, IEC 61008-1, 2010 , A1-2012 , A2-2013,IEC 61008-2-1 1990, IEC 61008-2-2 1990, IEC 61009-1, 2010, A1-2012 , A2-2013 IEC 61009-2-1, 1991, IEC 61009-2-2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	172 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
554	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Short time withstand current	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	173 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
555	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Strength of Actuator Mechanism	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5181

Page No

174 of 212

Validity

10/06/2024 to 09/06/2026

Last Amended on

28/08/2025

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
556	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Switching duty test	IS/IEC 60947-1 :2004+A1:2015 IS/IEC 60947-2 :2003 IS/IEC 60947-3:2012 IS/IEC 60947 - 4 - 1 ,2012 IS/IEC 60947 - 4 - 2 ,2011 IS/IEC 60947 - 5 - 1 ,2009, IEC 60947-1, 2007,A1:2010,A2:2014, IEC 60947-2, 2016:2016, IEC 60947-3, 2008,A1:2012+A2:2015 IEC 60947-4-1, 2018 , IEC 60947-4-2, 2011,IEC 60947-5-1 2016 , IEC 60947-7-1, 2009, IEC 60947-7-2, 2009 IS/IEC 60898-1, 2015, IS/IEC 60898-2, 2003, IEC 60898-1 2015, IEC 60898-2 2016 , IS 12640 : Part 1, 2016 , IS 12640 : 19
557	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Test Device Ampere Turns	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC-61009-1: CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5181

Validity 10/06/2024 to 09/06/2026

Page No 175 of 212

Last Amended on 28/08/2025

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
558	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Time Current Characteristics	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	176 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
559	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Trip and non trip test	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	177 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
560	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of Ability to Withstand Overload Currents	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1CSV
561	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of Marking Dimensions, Visual Examination, General and Indelibility of marking.	IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018,IEC-61008-1, 2013 (CSV), IEC 61009-1 CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	178 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
562	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of Mechanical Propertis of Terminals	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1
563	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of operation and operating Limits	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1 CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	179 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
564	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of Overload Releases	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IEC-61009-1 CSV
565	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of rated making and breaking capacities, change over ability and reversibility	IS 12640:Part 1:2016/IEC 61008-1: 2012+A1:2016+A2:2018 +A3:2018+A4:2018, IS 12640-2:2016/IEC 61009-1 : 2012+A1:2016+A2:2018 +A3:2018, IEC 61008-1:2010+A1:2012+ A2:2013, IEC-61008-2-1:1990, IEC-61008-2-2:1990, IS/IEC-60898-1:2015, IS/IEC-60898-2:2003 IEC-60898-1:2015+A1:20 19, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2 011+A2:2014; BSEN:60947-2:2017+A1:2 020; BSEN:60947-3:2009+A1:2 012;+A2:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	180 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
566	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of the operation of the test device at the limits of rated voltage	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1 CSV
567	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of the coordination at rated conditional residual short circuit current	IS 12640 : Part 1, 2016 , IS 12640-2 : 2016, IEC 61008-1, 2010 , A1-2012 , A2-2013, IEC 61008-2-1 1990, IEC 61008-2-2 1990, IEC 61009-1, 2010, A1-2012 , A2-2013 IEC 61009-2-1, 1991, IEC 61009-2-2
568	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Voltage Drop/Effective Earthing	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A1:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019 IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, BSEN:60947-1:2007+A1:2 011+A2:2014; BSEN:60947-2:2017+A1:2 020; BSEN:60947-3:2009+A1:2 012;+A2:2015 IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5181

Page No

181 of 212

Validity

10/06/2024 to 09/06/2026

Last Amended on

28/08/2025

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
569	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	withstand overload current	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A1:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019 IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2:2015 IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2
570	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear / LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut-outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Mechanical strength	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	182 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
571	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear / LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut-outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Resistance to Rusting	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1:2013 CSV 13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	183 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
572	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear / LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut-outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Lightning Impulse Voltage Withstand	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1: 2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, IS 12640-1:2016+A4:2018, IS 12640-2:2016+A3:2018 & IEC 61008-1:2013 CSV, IEC 61009-1:CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	184 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
573	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear / LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut-outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Temperature Rise (upto 10KA)	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1: 2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, IS 12640-1:2016+A4:2018, IS 12640-2:2016+A3:2018 & IEC 61008-1:2013 CSV, IEC 61009-1:CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION,
GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5181

Page No

185 of 212

Validity

10/06/2024 to 09/06/2026

Last Amended on

28/08/2025

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
574	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear / LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut-outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Resistance to heat	IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1: 2013 IS 13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010, +A1, 2013+A2, 2019, IEC-60269-4, 2009+ A1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	186 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
575	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L.V, Circuit Breaker & Swichgear Panel With Circuit	Resistance Rise Circuit	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1: 2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, IS 12640-1:2016+A4:2018, IS 12640-2:2016+A3:2018 & IEC 61008-1:2013 CSV, IEC 61009-1:CSV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	187 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
576	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L.V, Circuit Breaker & Switchgear Panel With Circuit / LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Resistance test / Resistance Rise Test	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2, 2016, IS-9926, 1981, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC-61009-1 CSV
577	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Protection Against Electric Shock	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	188 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
578	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Re-wirable type fuses, fuses (cut- outs) Auxiliary terminal blocks interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Measurement of Resistance	IS 13703-4:1993; IS 2086:1993+A1-1997; IS 10027: 2018; IS/IEC 60269-1:2014; IS/IEC 60269-2:2016; IS/IEC 60269-3:2010;IEC 60269-1: 2006+A1.2009+A2.2014; IEC 60269-2: 2013+A1-2016; IEC 60269-3:2010+A1.2013+ A2-2019; IEC 60269-4: 2009+A1.2012; BSEN 60269-1:2007+A2:2014 /BS88-1:2007+A2.2014; BSHD 60269-2:2013/BS 88-2: 2013; BSHD 60269-3 2010+A1 2013/BS 88-3: 2010; BSEN 60269-4:2009 +A1.2012+A2-2016/BS 88-4:2009+A1:2012; BS 7657:



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	189 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
579	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Re-wirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Measurement of Insulation Resistance	IS 13703-4:1993; IS 2086:1993+A1-1997; IS 10027: 2018; IS/IEC 60269-1:2014; IS/IEC 60269-2:2016; IS/IEC 60269-3:2010;IEC 60269-1: 2006+A1.2009+A2.2014; IEC 60269-2: 2013+A1-2016; IEC 60269-3:2010+A1.2013+A2-2019; IEC 60269-4: 2009+A1.2012; BSEN 60269-1:2007+A2:2014 /BS88-1:2007+A2.2014; BSHD 60269-2:2013/BS 88-2: 2013; BSHD 60269-3 2010+A1 2013/BS 88-3: 2010; BSEN 60269-4:2009 +A1.2012+A2-2016/BS 88-4:2009+A1:2012; BS 7657
580	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliiary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Conventional fusing and non-fusing current test	IS-13703-2-1, 1993, IS-13703-2-2, 1993, 13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	190 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
581	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnect- ing units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Conventional Time and current	IS 9926, 1981
582	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnect- ing units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Electric Endurance	IS 9926, 1981
583	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnect- ing units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Performance Under Short Circuit Conditions	IS 13703- 2-1:1993;IS 13703- 2-2:1993; IS 13703-4:1993; IS 2086:1993+A1-1997; IS 10027: 2018; IS/IEC 60269-1:2014; IS/IEC 60269-2:2016; IS/IEC 60269-3:2010;IEC 60269-1: 2006+A1.2009+A2.2014; IEC 60269-2: 2013+A1-2016; IEC 60269-3:2010+A1.2013+ A2-2019; IEC 60269-4: 2009+A1.2012; BSEN 60269-1:2007+A2:2014 /BS88-1:2007+A2.2014; BSHD 60269-2:2013/BS 88-2: 2013; BSHD 60269-3 2010+A1 2013/BS 88-3: 2010; BSEN 60269-4:2009 +A1.2012+A2-2016/BS 88-4:2009+A1:2012; BS 7657



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	191 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
584	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnect- ing units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Verification of Breaking Capacity	IS 13703- 2-1:1993;IS 13703- 2-2:1993; IS 13703-4:1993; IS 2086:1993+A1-1997; IS 10027: 2018; IS/IEC 60269-1:2014; IS/IEC 60269-2:2016; IS/IEC 60269-3:2010;IEC 60269-1: 2006+A1.2009+A2.2014; IEC 60269-2: 2013+A1-2016; IEC 60269-3:2010+A1.2013+ A2-2019; IEC 60269-4: 2009+A1.2012; BSEN 60269-1:2007+A2:2014 /BS88-1:2007+A2.2014; BSHD 60269-2:2013/BS 88-2: 2013; BSHD 60269-3 2010+A1 2013/BS 88-3: 2010; BSEN 60269-4:2009 +A1.2012+A2-2016/BS 88-4:2009+A1.2012; BS 7657



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	192 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
585	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnect- ing units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Verification of 12t characteristics and overcurrent discrimination	IS 13703 (Part 1), 1993 IS 13703(Part 2/ Sec 1), 1993 IS 13703 (Part 2 /Sec 2), 1993 IS 13703(Part 4), 1993 IS 8187 : 1976 A1 , 1980 IS 2086, 1993 A1, 1997 IS 10027 : 2000 IEC 60269-1, 2006, A1-2009, A2-2014 IEC 60269-2, 2013 IEC 60269-3, 2010 + A1-2013 IEC 60269-4, 2009 +A1-2012 BSEN 60269-1:2007+A2 2014/ BS 88-1:2007 +A2 2014 BSHD 60269-2:2010/ BS 88-2 :2010 BSHD 60269-3:2010 +A1 2013/ BS 88-3:2010 BSHD 60269-4:2009 + A1 2012, BS 88-4:2009 + A1 2012 BS 7657



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	193 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
586	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnect- ing units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Verification of the cut-off current characteristics	IS 13703- 2-1:1993;IS 13703- 2-2:1993; IS 13703-4:1993; IS 2086:1993+A1-1997; IS 10027: 2018; IS/IEC 60269-1:2014; IS/IEC 60269-2:2016; IS/IEC 60269-3:2010;IEC 60269-1: 2006+A1.2009+A2.2014; IEC 60269-2: 2013+A1.2016; IEC 60269-3:2010+A1.2013+ A2-2019; IEC 60269-4: 2009+A1.2012; BSEN 60269-1:2007+A2:2014 /BS88-1:2007+A2.2014; BSHD 60269-2:2013/BS 88-2: 2013; BSHD 60269-3 2010+A1 2013/BS 88-3: 2010; BSEN 60269-4:2009 +A1.2012+A2-2016/BS 88-4:2009+A1.2012; BS 7657
587	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Rated current test	IS-13703-2-1, 1993, IS-13703-2-2, 1993, 13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	194 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
588	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Freedom from seasonal cracking	IS-13703-2-1, 1993, IS-13703-2-2, 1993, 13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2
589	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Resistance to Heat	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2
590	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Degree of Protection	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	195 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
591	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Dimensions	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2: 2016 , IS-9926
592	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Insulation resistance (at max 1000V)	IS 13703-4:1993; IS 2086:1993+A1-1997; IS 10027: 2018; IS/IEC 60269-1:2014; IS/IEC 60269-2:2016; IS/IEC 60269-3:2010;IEC 60269-1: 2006+A1.2009+A2.2014; IEC 60269-2: 2013+A1-2016; IEC 60269-3:2010+A1.2013+ A2-2019; IEC 60269-4: 2009+A1.2012; BSEN 60269-1:2007+A2:2014 /BS88-1:2007+A2.2014; BSHD 60269-2:2013/BS 88-2: 2013; BSHD 60269-3 2010+A1 2013/BS 88-3: 2010; BSEN 60269-4:2009 +A1.2012+A2-2016/BS 88-4:2009+A1:2012; BS 7657



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	196 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
593	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Mechanical Endurance	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2
594	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Mechanical Strength of Fuse Holder	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2
595	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Non-deterioration of insulating parts of fuse links, fuse base and contacts	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	197 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
596	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Temperature Cycle	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2
597	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Time Current Characteristics	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2
598	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Verification of the insulating properties	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	198 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
599	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Visual Examination -- Ambient Temperature measurement of fuse and dimensional measurement of fuse wire	IS 9926 : 1981, IS-2086, 1993+A1
600	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Water Absorption (Non Ceramic)	IS 9926 : 1981, IS-2086, 1993+A1
601	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Withdrawal Force	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2: 2016 , IS-9926
602	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Temperature Rise	IS-13703-2-1, 1993, IS-13703-2-2, 1993, 13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	199 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
603	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Water Absorption on Ceramic Material	IS 2086:1993+A1
604	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Overload test	IS-13703-2-1, 1993, IS-13703-2-2, 1993, 13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010, +A1, 2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2
605	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switchgear and Control gear Assemblies	Arc Fault Test	IIEC/TR:61641:2014; IS/IEC:61439-2:2020; IEC:61439-2
606	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Motor Terminal Box	Internet Arc Fault	As per CPRI DOCUMENT: TEST OPERATING PROCEDURE STATION - 1 (TOP-1) Issue no. 7 dated 05.08.
607	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Motor Terminal Box	Through Fault Current	As per CPRI DOCUMENT: TEST OPERATING PROCEDURE STATION - 1 (TOP-1) Issue no. 7 dated 05.08
608	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Pre-Fabricated Substation	Internal Arc Test	IEC 62271-202:2022; IS/IEC 62271-202



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	200 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
609	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Pre-Fabricated substation	Short-time withstand current and peak withstand current test	IEC 62271-202:2022; IS/IEC 62271-202:
610	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Rewirable Fuse	Temperature cycle test	IS-2086, 1993+A1
611	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	VCB PANELS OUTDOOR BREAKERS AS PER IEC 62271	PARTIAL DISCHARGE TEST	IEC 62271-1: 2021, IEC 62271-100: 2021, IEC 62271-200 : 2021, IEC 62271-102: 2022, IEC 62271-103:2021, IS/IEC 62271(PART1):2017, IS/IEC 62271(PART100):2021, IS/IEC 62271(PART102):2018, IS/IEC 62271(PART103):2021, IS/IEC 62271(PART200):2021
612	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	All types of Insulators & Bushings	Partial Discharge test	60383-1 :2023, 60383-2 :1993, 60137: 2017
613	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, power connectors, Insulators	Short Time Current	IS/IEC 60137:2017, IS 7421:1988, IS 5561: 2018, IS/IEC 62155: 2003, IS/IEC 60168: 2000, IS 731:1971+A5.1987,+A6.1 993,+A7
614	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, Power connectors, Insulators	Visual inspection and dimensional check	IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988 ,IS 5561:2018, IS/IEC 62155:2003, IS/IEC 60168:2000, IS 731:1971, IEC 60305 : 2021, IEC 60273



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	201 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
615	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, power connectors, Insulators	HV power frequency test (dry & wet)	IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988, IS 5561:2018, IS/IEC 62155:2003, IS/IEC 60168:2000, IS 731:1971, IEC 60305 : 2021, IEC 60273
616	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, power connectors, Insulators	Lightning impulse Test & Switching Impulse	IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988, IS 5561:2018, IS/IEC 62155:2003, IS/IEC 60168:2000, IS 731:1971, IEC 60305 : 2021, IEC 60273
617	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, Power connectors, Insulators	puncture	IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988, IS 5561:2018, IS/IEC 62155:2003, IS/IEC 60168:2000, IS 731:1971, IEC 60305 : 2021, IEC 60273
618	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, power connectors, Insulators	Routine test -- Dry lightning impulse voltage withstand test, Dry power-frequency voltage withstand test	IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988, IS 5561:2018, IS/IEC 62155:2003, IS/IEC 60168:2000, IS 731:1971, IEC 60305 : 2021 IEC 60273
619	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, Power connectors, Insulators	Switching Impulse Voltega (Dry) (upto 220 kV class)	IEC 60137:2017, IS/IEC 60137:2017, IEC 60305 : 2021, IEEE C57.19.01
620	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, power connectors, Insulators	Temperature rise test	IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988, IS 5561:2018, IS/IEC 62155:2003, IS/IEC 60168:2000, IS 731:1971, IEC 60305 : 2021, IEC 60273



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	202 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
621	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, Power connectors, Insulators	Verification of Dimensions	IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988, IS 5561:2018, IS/IEC 62155:2003, IS/IEC 60168:2000, IS 731:1971, IEC 60273
622	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Hollow Insulator Post Insulator (Indoor/ Potdoor) Upto 400 KV Rating	Impulse Voltage Withstand	IS/IEC 62155:2003, IS 5350(part-1):1970, IS 5350(part-2):1973, IS 5350(part-3):1971
623	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulator Strings	Power Arc Test	IEC 61467
624	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Line Traps	Short Time Current	IS: 8792-1995; IS:8793-1995; IEC:60353-1989+A1
625	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Neutral Grounding Resistor Units	Short Time Current	As per CPRI DOCUMENT: TEST OPERATING PROCEDURE STATION - 1 (TOP-1) Issue No.7 dated 05.08.2020; IEEE Std C57.32
626	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Neutral Grounding Resistor Units	Temperature Rise	As per CPRI DOCUMENT: TEST OPERATING PROCEDURE STATION - 1 (TOP-1) Issue No.7 dated 05.08.2020; IEEE Std 32
627	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load tap Changer	Breaking Capacity test	IS 8468 : Part 1 2018, IEC 60214-1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	203 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
628	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Degree of Protection	IS 8468(Part-1):2018/IEC 60214-1:2014, IS/IEC 60947-1:2004, IS/IEC60529:2001, IEC 60214-1,2014 , IEC/IEEE 60214-2:2019 ,IEC 60947-1:2020, ,IEC 60529
629	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	High Voltage	IS 8468(Part-1):2018/IEC 60214-1:2014, IS/IEC 60947-1:2004, IS/IEC60529:2001, IEC 60214-1,2014 , IEC/IEEE 60214-2:2019 ,IEC 60947-1:2020, ,IEC 60529
630	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Lightning Impulse Test (Upto 220 KV class	IS 8468(Part-1):2018/IEC 60214-1:2014, IS/IEC 60947-1:2004, IS/IEC60529:2001, IEC 60214-1,2014 , IEC/IEEE 60214-2:2019 ,IEC 60947-1:2020, ,IEC 60529
631	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Mechanical Endurance	IS 8468(Part-1):2018/IEC 60214-1:2014, IS/IEC 60947-1:2004, IS/IEC60529:2001, IEC 60214-1,2014 , IEC/IEEE 60214-2:2019 ,IEC 60947-1:2020, ,IEC 60529
632	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Mechanical Test	IS 8468(Part-1):2018/IEC 60214-1:2014, IS/IEC 60947-1:2004, IS/IEC60529:2001, IEC 60214-1,2014 , IEC/IEEE 60214-2:2019 ,IEC 60947-1:2020, ,IEC 60529
633	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Service Duty Tests	IS 8468 : Part 1 2018, IEC 60214-1



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	204 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
634	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Short Circuit Current	IS 8468 : Part 1 : 2018/IEC 60214-1 : 2014; IEC 60214-1:2014; IEC/IEEE 60214-2
635	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Temperature Rise Test (upto 25 KA)	IS 8468(Part-1):2018/IEC 60214-1:2014, IS/IEC 60947-1:2004, IS/IEC60529:2001, IEC 60214-1,2014 , IEC/IEEE 60214-2:2019 ,IEC 60947-1:2020, ,IEC 60529
636	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Transition Impedance	IS 8468 : Part 1 2018, IEC 60214-1
637	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Porcelain Insulators for Over Head Power Lines With Nominal Voltage Greater than 1000 V Insulator String, Post Insulators, Solid Core Insulator, Composite Insulators, pin Insulator, Polyester Housings Upto 400 KV rating	Lightning Impulse and 50% Impulse Voltage Flashover	IEC:60168:1994+AMD1:1997+AMD2:2000,IEC:60383-1/1993,IEC:60383-2/1993,IEC61109:2008,IEC 60433:1998,IS/IEC 60168:2000,IS:731:1971, IS1445:
638	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Spacers for Bundle Conductor	Fault Current	IS 10162:1982+A.No.1
639	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Surge Arresters	Short Circuit Test	IS 15086 /Part 4 : 2017 / IEC 60099-4 : 2014, IEC 60099-4, 2014; IEC 60099-5, 2018; IEEE C62.11



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	205 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
Site Testing				
1	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	AC voltage test	IS15884:2010 Cl.5.4.6.3, IEC62055 -31:2022 Cl.7.7,
2	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Insulation test	IS15884:2010 Cl.5.4.6.1, IEC62055 -31
3	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Interpretation of test Results	IS15884:2010 Cl.5.6.6, IEC62055 -31:2022Cl.8.0,
4	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Limits of Error	IS15884:2010 Cl.4.6.1, IEC62055 -31:2005Cl.8.0
5	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Power Consumption	IS15884:2010 Cl 5.4.1,IEC62055 -31:2022 Cl.7.3,
6	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of Initial start -up of meter and Test of no load condition	IS15884:2010 Cl.5.6.3, IEC62055 -31:2005Cl.8.0
7	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of meter constant	IS13779:1999 A.1 to 5Cl.12.15 (Withdrawn), IS15884:2010 Cl.5.6.5, IEC62055 -31:2022 Cl.8.0,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	206 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
8	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of repeatability of Error	IS15884:2010 Cl.5.6.7, IEC62055 -31:2022 Cl.7.7,
9	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of starting condition	IS15884:2010 Cl.5.6.4, IEC62055 -31:2022 Cl.8.0
10	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S,0.5S and 1.0S	AC voltage test	IS14697: 1999 A.1 to 4 Cl.12.7.6.3 (Withdrawn), CBIP-325:2015 Cl.5.4.6.3, IS16444(Part 2):2017 A.1Cl.6.10.6, IS14697:2021 A.1 Cl.12.7.6.2, IEC62052-31:2015Cl.6.10.3.3, IEC62052-11:2020, IEC62053-21:2020 IEC 62053-22:2020, IEC62053-24:
11	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5;AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Insulation test	IS14697: 1999 A.1to4 Cl.12.7.6.4 (Withdrawn),CBIP-325:2015 Cl.5.4.6.4,IS16444(Part 2):2017A.1Cl.6.10.6, IS13779:2020 Cl.12.7.6.4, IS14697Cl.12.7.6.4,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	207 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
12	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Interpretation of test Results	IS14697: 1999 A.1 to 4 Cl.12.15 (Withdrawn), CBIP-325:2015, IS16444(Part 2):2017 A.1 Cl.6.12, IS14697:2021 Cl.12.15, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24
13	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test of Initial start -up of meter and Test of no load condition	IS 14697: 1999 A.1 to 4 Cl.12.12 (Withdrawn), CBIP-325:2015 Cl.5.6.4, IS16444(Part 2):2017 A.1 Cl.6.12, IS14697:2021 Cl.12.12, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24, Cl.7.6:2020
14	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test of meter constant	IS14697: 1999 A.1 to 4 Cl.12.14 (Withdrawn), CBIP-325:2015 Cl.5.4.6.6, IS16444(Part 2):2017 A.1 Cl.6.12, IS14697:2021 Cl.12.14, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24, Cl.7.4



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	208 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
15	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Test of repeatability of Error	IS14697: 1999 A.1 to 4 Cl.12.16 (Withdrawn),CBIP-325:2015 Cl.5.6.9,IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021Cl.12.16, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.8
16	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart MeterClass 0.2S,0.5S and 1.0S	Test of starting condition	IS14697: 1999 A.1 to 4 Cl.12.13 (Withdrawn),CBIP-325:2015 Cl.5.4.6.5,IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021Cl.12.13, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,CL.7.7
17	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR - hour Smart	Limits of Error	IS14697: 1999 A.1 to 4 Cl.11.1 (Withdrawn),CBIP-325:2015 Cl.5.4.6.8, IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021 A.1 Cl.11.1, IEC62052-11:2020, IEC62053-21:2020, IEC62053-23:2020, IEC62053-24,Cl.7.9



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	209 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
18	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC.Static Transformer operated Watthour and VAR – hour Smart MeterClass 0.2S,0.5S and 1.0S	Power Consumption	IS14697:1999A.1to4Cl12.7.1(Withdrawn),CBIP-325:2015 Cl 5.4.1,IS16444 (Part2) :2017A.1Cl.6.10.1, IEC62052-11:2020Cl.4.4,I EC62053-21:2020,IEC620 53-22:2020,IEC62053-24: 2020 Cl.4.4,IS14697 A.1 Cl.12.7.1,
19	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	AC voltage test	IS13779:1999 A.1 to 5Cl.12.7.6.3 (Withdrawn), CBIP-325:2015 Cl.5.4.6.3 IS16444(Part 1):2015 A.1&2 Cl.6.10.6, IS13779:2020 Cl.12.7.6.2, IEC62052-31:2015Cl.6.10.3.3, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC620 53-23:2020, IEC62053-24
20	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Insulation test	IS13779:1999 A.1to5Cl.12.7.6.4 (Withdrawn), CBIP-325:2015 Cl.5.4.6.4,Cl.7.7,IS16444(Part 1):2015A.1&2 Cl.6.10.6 ,IS13779:2020 Cl.12.7.6.4,



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	210 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
21	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Interpretation of test Results	IS13779:1999 A.1 to 5CI.12.16 (Withdrawn), CBIP-325:2015 CI.5.6.7,IS16444(Part 1):2015A.1&2 IS13779:2020 CI.12.16, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24
22	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Power Consumption	IS13779:1999A.1to5CI 12.7.1(Withdrawn),CBIP-3 25:2015 CI 5.4.1,IS16444(Part1): 2015 A.1 & 2CI.6.10.1,IS13779:2020C I.12.7.1,IEC62052-11:202 0CI.4.4,IEC62053-21:2020 ,IEC62053-22:2020,IEC62 053-23:2020,IEC62053-24 :2020 CI.4.4
23	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of Initial start -up of meter and Test of no load condition	IS13779:1999 A.1 to 5CI.12.13 (Withdrawn), CBIP-325:2015 CI.5.6.4,CI.8.0,IS16444(Pa rt 1):2015A.1&2 CI.6.12, IS13779:2020 CI.12.13, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC620 53-23:2020,CI.7.6:2020



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	211 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
24	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of meter constant	IS13779:1999 A.1 to 5Cl.12.15 (Withdrawn), CBIP-325:2015 Cl.5.4.6.6,IS16444(Part 1):2015A.1&2 IS13779:2020 Cl.12.15, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.4
25	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of repeatability of Error	IS13779:1999 A.1 to 5Cl.12.17 (Withdrawn), CBIP-325:2015 Cl.5.6.9, IS16444(Part 1):2015A.1&2 IS13779:2020 Cl.12.17, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.8:20206 2053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.10
26	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of starting condition	IS13779:1999 A.1 to 5Cl.12.14 (Withdrawn), CBIP-325:2015 Cl.5.4.6.5,IS16444(Part 1):2015A.1&2 Cl.6.12, IS13779:2020 Cl.12.14, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,CL.7.7



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5181	Page No	212 of 212
Validity	10/06/2024 to 09/06/2026	Last Amended on	28/08/2025

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
27	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test on limits of error	IS13779:1999 A.1 to 5Cl.11.1 (Withdrawn), CBIP-325:2015 Cl.5.4.6.8,IS16444(Part 1):2015A.1&2 Cl.6.12, IS13779:2020 Cl.11.1, Cl.8.0 IEC62052-11:2020, IEC62053-21:2020, IEC62053-23:2020, IEC62053-24