



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

CENTRAL POWER RESEARCH INSTITUTE, REGIONAL TESTING LABORATORY, SURVEY NO. 220,
SHILAPUR, NASHIK, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

NABLT1026MH19787

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Validity

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Testing				
1	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	A.C Static Direct Connected Watthour Smart Meter Class 1 and Class 2	Smart Meter Functional Requirements	CI.11 of IS 16444 (Part 1) A.1,2&3
2	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Cold test (Chamber Size: 1m x 1m x 1m)	CI.No. 5.3.2 IS 15884: 2024, CI.No.6.0 IEC 62055 -31
3	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Dry heat test (Chamber Size: 1m x 1m x 1m)	CI.5.3.1 IS 15884: 2024 , IEC62055 -31:2022, IEC62052-11:2020 CI.8.3.3, IEC62053-21:2020 CI.8, IEC62053-22:2020 CI.8, IEC62053-23:2020 CI.8, CI.8 IEC62053-24
4	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Frequency variation	IEC 62055 -31:2022 CI.8.0 , CI 4.6.2 IS 15884



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5	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. Marking of meters Name Plate Connection diagrams and terminal Marking	IEC 62055 -31: 2022 , IS 15884
6	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Influence of self heating	Cl.5.4.4 IS 15884
7	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Influence of supply Voltage	Cl.4.4.2 and 5.4.2 IS 15884
8	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.7.7 IEC 62055 -31
9	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: 2024 , IEC 62055 -31



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10	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Power Consumption	CI 5.4.1 IS 15884: 2024, CI.7.3 IEC62055 -31
11	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Reversed phase sequence	IEC62055 -31:2022 CI.8.0 : 2022, CI 4.6.2 IS 15884
12	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Short time over current Test	CI.5.4.3 IS 15884
13	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	CI.8.0 IEC 62055 -31
14	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of resistance to heat & fire	IEC 62055 -31:2022, IEC 62052-31:2015 CI.9.3.2.1, CI.5.2.4 IS 15884
15	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	IEC 62055 -31:2022, CI.5.8 IS 15884
16	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: 2024 ,CI.8.0 IEC 62055 -31



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17	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Vibration test (Sine and random)	IEC 62055 -31:2022 ,CI.5.2.3 IS 15884
18	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Voltage unbalance	IEC 62055 -31:2022 CI.8.0, CI 4.6.2 IS 15884
19	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Voltage variation	IEC 62055 -31:2022 CI.8.0 , CI 4.6.2 IS 15884
20	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	CI.G6 IS 15884:2024, IS16444 (Part 1): 2015 A.1 and 2,3 CI.7.2,CI. Annex C6 IEC 62055 -31
21	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 IS 15884:2024 , IS 16444 (Part 1): 2015 A.1,2 ,3
22	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 IS 15884:2024 ,IS 16444 (Part 1): 2015 A.1, 2 and 3 : 2024 , IEC 62055 -31
23	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	IS 16444 (Part 1): 2015 A.1,2 ,3,CI. 4.8 and Annexure G IS 15884



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24	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	IS 16444 (Part 1): 2015 A.1, 2 & 3 Cl.7.2, Cl. Annex C 8 IEC 62055 -31
25	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	Cl.G7 IS 15884:2024 , IS 16444 (Part 1): 2015 Amend.1,2 ,3: 2024 IS 16444 (Part 1): 2015 Cl. 7.2 A.1, 2, 3, Cl Annex C7 IEC 62055 -31
26	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	Cl.4.4.2.5 IS 15884:2024, Cl.6.10.7 IS 16444(part1) A.1,2&3
27	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, Cl. 5.10 of IS 15884:2024 , IS 16444 (Part 1)A.1,2&3:2015, IEC 62055 -31
28	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	IEC 62055-31:2022,Cl.6.10.2 IS 16444 (Part 1)A.1,2,3:2015, Cl 4.4.2 IS 15884
29	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	IS 16444 (Part 1): 2015 A.1,2 and 3 Cl.7.2, Cl. Annex C5 IEC 62055 -31
30	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	IS 16444(Part 1): 2015 A.1 & 2 & 3 Cl.6.10.4, Cl.7.6 IEC 62055 -31



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31	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	IS 16444 (Part 1): 2015 A.1,2&3, Cl.7.2, IEC 62055 -31:2022 Cl. Annex C4: 2005 , Cl.G4 IS 15884
32	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	Load Switching capability/ performance requirement for load switching	IEC 62055 -31:2022 Cl.7.9, Cl.7.2 IS 16444 (Part 1) A.1 ,2,3
33	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	Cl.G2 IS 15884:2024, IS 16444 (Part 1): 2015 A.1,2,3 Cl.7.2,Cl. Annex C2 IEC 62055 -31
34	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	IEC 62055 -31:2022, Cl.7.4, Cl.6.10.3 IS 16444(Part1):2015 A.1&2,3:
35	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;	Electrical Endurance	IS 16444 (Part 1): 2015 A.1,2 and 3 Cl.7.2, IEC 62055 -31:2022, Cl. Annex C3: 2022 , Cl.G3 IS 15884
36	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	IEC 62055 -31:2022 Cl.7.5, IS 16444 (Part 1): 2015 A.1& 2 &3 Cl.6.10.5, IEC 62052-31:2024 Cl.10.4,Cl.5.4.5 IS 15884
37	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	AC High voltage test	Cl. 5.4.6.3 IS 15884: 2024 , Cl.7.7 IEC 62055 -31



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38	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
39	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Damp heat cyclic test (Chamber Size: 1m x 1m x 1m)	CI.5.3.3 IS 15884: 2024, CI.No.6.0 IEC 62055 -31:
40	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: 2024 , IEC 62055 -31
41	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Effects of Disturbances on Time Keeping	CI. D-4 IS 15884:2024, IEC 62052-11 : 2020, CI. D-5 IEC 62055 -31
42	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Functional requirements	CI.6.0 IS 15884:2024, CI.9.0 IEC 62055 -31
43	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	CI.4.2 IS 15884



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44	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 IS 15884:2024, Cl.7.7 IEC 62055 -31
45	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 IS 15884:2024, IEC 62055 -31
46	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Interpretation of test results	Cl.No.5.6.6 IS 15884 : 2024 ,Cl.8.0 IEC 62055 -31
47	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
48	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
49	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
50	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



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51	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: 2024, IEC 62055-31:2022, Cl.11 IEC 62052-31
52	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: 2024, IEC 62055 -31
53	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: 2024 , IEC 62055-31:2022, Cl.8.2 IEC 62052-31
54	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Stray DC magnetic induction of external origin 67mT	Cl 4.6.2 IS 15884
55	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 IS 15884
56	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
57	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



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58	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 , Crystal-controlled Clocks on ac supplies	Cl. D-3.2.1, IS 15884: 2024, Cl.D-4.3.1 IEC 62055 -31
59	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, Crystal-controlled Clocks on Operation Reserve	Cl. D- 3.2.2 IS 15884: 2024 , Cl. D- 4.3.2: IEC 62055 -31
60	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: 2024, Cl.8.0 IEC 62055 -31
61	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of Starting condition	Cl.5.6.4 IS 15884
62	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Time keeping Accuracy	Cl. no. 4.7 IS 15884
63	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	Abnormal AC magnetic Induction of external Origin (10 mTesla)	CBIP-325:2015 Cl.5.6.2.4, IS16444 (Part 2):2017 A.1Cl.6.12, Cl.12.10 IS14697 A.1 & 2



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64	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	Dry heat test (Chamber Size: 1m x 1m x 1m)	Cl. 5.3.1 CBIP-325:2015 ,Cl.6.9 IS16444 (Part 2):2017 A.1,IS 14697:2021 A.1,2 Cl.12.6.1, IEC62052-11:2020 Cl.8.3.3, IEC62053-21:2020 Cl.8 IEC62053-22:2020 Cl.8, Cl.8 IEC62053-24
65	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	IS 14697:2021 A1,2,Cl.12.7.6.2, CBIP-325:2015 Cl.5.4.6.2, IS 16444(Part 2):2017A.1Cl.6.10.6, IEC 62052-31:2024 Cl.6.10.3.3, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC62053-24
66	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	CBIP-325:2015 Cl.5.4.6.4, IS 16444(Part 2):2017 A.1 Cl.6.10.6, Cl.12.7.6.4, IS 14697
67	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	Magnetic induction of external origin (0.5mT)	CBIP-325:2015 Cl.5.6.2.3, IS 16444(Part 2):2017 A.1Cl.6.12, IS 14697:2021 A.1,2 Cl.12.10, IEC 62052-11:2020, Cl.9.3.12, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-24



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68	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	Power Consumption	CBIP-325:2015 CI 5.4.1, IS 16444 (Part2) :2017 A.1CI.6.10.1, IS 14697: 2021 A.1, 2 CI.12.7.1, IEC 62052-11:2020 CI.4.4, IEC 62053-21:2020, IEC 62053-22:2020, CI.4.4 IEC 62053-24
69	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	Spring Hammer Test/mechanical test of meter case	CBIP-325:2015 CI.5.2.1,IS 14697: 2021 A.1,2 CI.12.3.3, IEC 62052-31:2015 CI.8.2, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-24
70	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	Stray DC magnetic induction of external origin 67mT	CBIP-325:2015 CI.5.6.2.2, IS 16444(Part 2):2017 A.1CI.6.12, CI.12.10 IS14697 A.1, 2
71	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	CBIP-325:2015 CI.5.6.4, IS 16444(Part 2):2017 A.1CI.6.12, IS 14697:2021 A.1,2 CI.12.12, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, CI.7.6 IEC 62053-24
72	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	Vibration test (Sine and random)	CBIP - 325:2015 CI.5.2.3, IS 16444 (Part 2):2017 A.1 CI.6.5,CI.12.3.2 IS 14697:2021 A1,2 : 2021 IEC 62052-11:2020 CI.5.2.1, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24



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73	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	CBIP-325:2015 , IS 16444 (Part 2):2017 A.1 Cl.6.12, IS 14697:2021 A.1,2 Cl.12.15, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-24
74	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 High voltage test	IS 14697:2021 A1, 2 Cl.12.7.6.3, CBIP-325:2015 Cl.5.4.6.3, IS 16444(Part 2):2017 A.1 Cl.6.10.6, IEC 62052-31:2015 Cl.6.9.3.3, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-24
75	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	Influence of heating	CBIP - 325:2015 Cl.5.4.5, IS 16444 (Part 2):2017 A.1 Cl.6.10.5, IS 14697: 2021 A.1,2 ,Cl. 12.7.5, IEC 62052-31:2024 Cl.10.4, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24
76	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	Ambient temperature influence	CBIP-325:2015 Cl.5.6.3, IS 16444 (Part 2):2017 A.1 Cl.6.12, IS 14697:2021 Cl.12.11 A1,2, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, Cl.7.10 IEC 62053-24



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77	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%	CBIP – 325:2015 Cl.4.2.2.10, IS 16444 (Part 2): 2017 A.1Cl.6.12, IS 14697:2021A.1,2,Cl.12.10 , IEC 62052-11:2020 Cl.9.4.8, IEC 62053-21:2020 Cl.7.10,IEC 62053-22:2020 Cl.7.10, Cl.7.10 IEC 62053-24
78	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	Cold test (Chamber Size: 1m x 1m x 1m)	CBIP – 325:2015 Cl.5.3.2 , IS 16444 (Part 2):2017 A.1 Cl.6.9, Cl.12.6.2 IS 14697: 2021 A.1 & 2, IEC 62052-11:2020 Cl.8.3.4, IEC 62053-21:2020 Cl.8, IEC 62053-22:2020 Cl.8, IEC 62053-23:2020 Cl.8, Cl.8 IEC 62053-24
79	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	Continuous abnormal DC magnetic Induction of external Origin (200/270 mTesla)	CBIP-325:2015 Cl.5.6.2.2, IS 16444(Part 2):2017 A.1Cl.6.12, Cl.12.10 IS 14697 A.1 & 2
80	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	Damp heat cyclic test (Chamber Size: 1m x 1m x 1m)	CBIP-325:2015 Cl.5.3.3, IS 16444 (Part 2): 2017 A. 1 Cl. 6.9, IS 14697: 2021 A.1,2 ,Cl.12.6.3 IEC 62052-11:2020 Cl.8.3.5, IEC 62053-21:2020 Cl.8, IEC 62053-22:2020 Cl.8, IEC 62053-23:2020 Cl.8, Cl.8 IEC 62053-24:



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81	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	CBIP-325:2015 Cl.5.4.6.3, IS 16444(Part 2):2017 A.1 Cl.6.12, IS 14697:2021 A.1,2 Cl.12.10, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, Cl.7.10 IEC 62053-24
82	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	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	CBIP - 325:2015 Cl.4.2.2, IS 16444 (Part 2):2017 A.1 &2 Cl.6.0, IEC 62052-11:2020 Cl.5.0, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-24:2020, Cl.6.0 IS 14697 A.1,2
83	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	Influence of self heating	CBIP-325:2015 Cl.5.4.4, IS 16444 (Part2):2017 A.1 Cl.6.10.4, IS 14697: 2021 A.1,2 Cl.12.7.4, IEC 62052-11:2020 Cl.9.4.11, IEC 62053-21, IEC 62053-22,Cl.7.10 IEC 62053-24
84	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	Influence of supply Voltage	Cl.5.4.2 CBIP-325:2015 ,IS 16444 (Part 2) :2017 A.1Cl.6.10.2,IS 14697: 2021 A.1,2,Cl.12.7.2, IEC 62052-11:2020 Cl.9.3.2, IEC 62053-21:2020 Cl.7.10, IEC 62053-22:2020 Cl.7.10,Cl.7.10 IEC 62053-24



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85	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	Marking of meters Name Plate Connection diagrams and terminal Marking	CBIP: 325:2015 Cl.4.2.2.11,IS 16444(Part2):2017 A.1 Cl.6.8, IS 14697: 2021 A.1,2 Cl.7.0, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-24
86	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	Operation of an Accessories	CBIP – 325:2015 Cl.5.6.2, IS 16444 (Part 2):2017 Cl.6.12, IEC 62052-11, 2020, IEC 62053-21:2020 Clause. 8.2, IEC 62053-22:2020,, IEC 62053-24:2020,IS 14697 A.1, 2
87	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	Phase of auxiliary Supply changed by 120°	IS 16444 (Part 2) A.1:2017 Cl.6.12, Cl.12.10 IS 14697 A.1,2
88	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	Protection against penetration of dust and water	CBIP – 325:2015 Cl. 5.2.5, IS 16444 (Part 2):2017 A.1 Cl.6.5, IEC 62052-31,2024 Cl.11, IEC 62052-11:2020,IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-24:2020, Cl.12.5 IS 14697 A.1,2
89	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	CBIP-325:2015 Cl.5.6.2, IS 16444 (Part 2):2017 A.1Cl.6.12, , IS 14697:2021 A.1,2 Cl.12.10, IEC 62052-11:2020,Cl.9.4.7, IEC 62053-21:2020, IEC 62053-22:2020,Cl.7.10 IEC 62053-24



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90	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	Shock test	CBIP - 325:2015 Cl.5.2.2, IS 16444 (Part 2):2017 A.1 Cl.6.5, IS 14697 A.1,2: 2021 Cl.12.3.1, IEC 62052-11:2020 Cl.5.2.1, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24
91	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	Short time over current Test	CBIP-325:2015 Cl.5.4.3, IS 16444(Part2):2017 A.1 Cl.6.10.3,IS 14697: 2021 A.1,2 Cl.12.7.3, IEC 62052-11:2020 Cl.9.4.10, IEC 62053-21, IEC 62053-22, Cl.7.10 IEC 62053-24
92	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	Cl.4.4.7 CBIP - 325:2015, IS 16444(Part 2) :2017 A.1 Cl.6.10.7, IS 14697:2021 A.1,2 ,Cl.12.17, IEC 62052-11: 2020 Cl.9.4.13, IEC 62053-21:2020 Cl.7.10, IEC 62053-22:2020Cl.7.10, IEC 62053-24
93	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	CBIP-325:2015 Cl.5.6.6, IS 16444(Part 2):2017 A.1 Cl.6.12, IS 14697:2021 A.1,2 Cl.12.14, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020,Cl.7.4 ,IEC 62053-24



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94	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 No load condition	CBIP-325:2015 Cl.5.6.4, IS 16444(Part 2):2017 A.1 Cl.6.12, IS 14697:2021 A.1,2 Cl.12.12, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020,CL.7.7 IEC 62053-24
95	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	CBIP-325:2015 Cl.5.6.9, IS 16444 (Part 2):2017A.1Cl.6.12, IS 14697:2021 A.1&2 Cl.12.16, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, Cl.7.8 IEC 62053-24
96	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 resistance to heat & fire	CBIP -325:2015 Cl.5.2.4, IS 16444 (Part 2):2017 A.1Cl.6.4, IEC 62052-31:2015Cl.9.3.2.1, IEC 62052-11:2020, IEC 62053-21:2020,IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24:2020,Cl.12.4 IS 14697 A.1&2
97	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	CBIP-325:2015 Cl.5.6.5, IS 16444(Part 2):2017 A.1 Cl.6.12, IS 14697:2021 A.1,2 Cl.12.13, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020,CL.7.7 IEC 62053-24



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98	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	CBIP-325:2015 Cl.4.6.3, IS 16444(Part 2):2017 A.1Cl.6.12, IS 14697:2021 A.1 Cl.12.10, IEC 62052-11:2020 Cl.9.4.5, IEC 62053-21:2020, IEC 62053-22:2020, Cl.7.10 IEC 62053-24
99	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	Cl.4.6.3 CBIP-325:2015, IS 16444 (Part 2):2017 A.1Cl.6.12, IS 14697:2021 A.1 Cl.12.10, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-24
100	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	CBIP-325:2015 Cl.4.6.3, IS 16444 (Part 2):2017A.1Cl.6.12,Cl.12.10 IS 14697 A.1,2
101	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 on limits of error	CBIP-325:2015 Cl.5.6.8, IS 16444 (Part 2):2017 A.1Cl.6.12, IS 14697:2021 A.1,2 Cl.11.1,Cl.7.9, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-23:2020, IEC 62053-24
102	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	Cl.5.6.7 CBIP-325:2015 , IS 16444 (Part 2):2017A.1Cl.6.12, IS 14697:2021 A.1,2 Cl.12.15, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-24



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103	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2, AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Vibration test (Sine and random)	CI.5.2.3 CBIP-325:2015, IS 16444 (Part 1): 2015 A.1&2 Cl.6.5, IS 13779:2020 Cl.12.3.2,IEC 62052-11:2020 Cl.5.2.1,IEC 62053-21:2020,IEC 62053-22:2020,IEC 62053-23:2020,IEC 62053-24
104	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: 325: 2015 Cl.6.7, IS 14697 A.1,2: 2021 , IS 13779
105	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	Clause D- 4.3.3 IEC 62055 -31
106	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	Continuous magnetic induction of external origin	IEC 62055 -31:2022 Cl.7.7, IEC62052-11:2020 Cl.9.3.12, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053 23:2020, IEC 62053-24
107	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 Meter Class 0.2S,0.5S and 1.0S	Harmonic component in current and voltage	IEC 62055 -31:2022 Cl.4.6.2 , IEC 62052-11 :2020, Cl.9.4.2.3 IEC 62053-21 :2020, Cl.7.10 IEC 62053-22:2020, Cl.7.10 IEC 62053-23:2020, Cl.7.10 Cl.7.10, IEC 62053-24



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108	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	Odd Harmonics in ac current circuit	IEC 62055 -31:2022, Cl.4.6.2 IEC 62052-11, 2020, Cl.9.4.2.4 IEC 62053-21, 2020, Cl.7.10 IEC 62053-22:2020, Cl.7.10 IEC 62053-23:2020, Cl.7.10 IEC 62053-24
109	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	Sub harmonics in ac current circuit/ Inter harmonics in ac current circuit- Burst fired waveform test	IEC 62055 -31:2022 Cl.4.6.2, IEC 62052-11: 2020 Cl.9.4.2.3, IEC 62053-21: 2020, Cl.7.10 IEC 62053-22:2020, Cl.7.10 IEC 62053-23:2020, Cl.7.10, IEC 62053-24
110	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 test	IS 13779:2020 Cl.12.7.6.2, CBIP-325:2015 Cl.5.4.6.2, IS 16444(Part 1):2015 A.1&2&3 Cl.6.10.6, IEC 62052-31:2024 Cl.6.10.3.3, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24
111	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Abnormal a.c. magnetic induction of external Origin (10 mTesla)	CBIP-325:2015 Cl.5.6.2.4, 16444 (Part 1):2015 A.1, 2& 3 Cl.6.12, Cl.12.11 IS13779



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112	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 temperature influence	CBIP-325:2015 Cl.5.6.3, IS 16444(Part 1):2015 A.1,2 & 3 Cl.6.12, IS 13779:2020 Cl.12.12, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24: 2020 Cl.7.10 ,Cl. 8.0 IEC 62055 -31
113	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Cold test (Chamber Size: 1m x 1m x 1m)	CBIP - 325:2015 Cl.5.3.2, IS 16444 (Part 1): 2015 A.1,2,3 Cl.6.9, IS 13779:2020 Cl.12.6.2, IEC 62052-11:2020 Cl.8.3.4, IEC 62053-21:2020 Cl.8, IEC 62053-22:2020 Cl.8, IEC 62053-23:2020 Cl.8, Cl.8 IEC 62053-24
114	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Continuous abnormal DC magnetic Induction of external Origin (200/270 mTesla)	CBIP-325:2015 Cl.5.6.2.2, IS 16444 (Part 1):2015 A.1,2 & 3 Cl.6.12, Cl.12.11 IS 13779
115	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Damp heat cyclic test (Chamber Size: 1m x 1m x 1m)	Cl. 5.3.3 CBIP-325:2015 , IS 16444 (Part 1): 2015 A.1&2&3 Cl.6.9, IS 13779:2020 Cl.12.6.3, IEC 62052-11:2020 Cl.8.3.5, IEC 62053-21:2020 Cl.8, IEC 62053-22:2020 Cl.8, IEC 62053-23:2020 Cl.8, IEC 62053-24



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116	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 the current circuit	CBIP-325:2015 Cl.4.6.3, IS 16444(Part 1):2015 A.1&2&3 Cl.6.12, IS 13779:2020 Cl.12.11, IEC 62052-11:2020 Cl.9.4.2.5, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, Cl.7.10 IEC 62053-24
117	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Dry heat test (Chamber Size: 1m x 1m x 1m)	CBIP-325:2015 Cl.5.3.1, IS 16444 (Part 1): 2015 A.1&2&3 Cl.6.9, IS 13779:2020 Cl.12.6.1, IEC 62052-11:2020 Cl.8.3.3, IEC 62053-21:2020 Cl.8, IEC 62053-22:2020 Cl.8, IEC 62053-23:2020 Cl.8, Cl.8 IEC 62053-24
118	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	CBIP-325:2015 Cl.4.6.3, IS 16444 (Part 1):2015 A.1&2&3 Cl.6.12, IS 13779:2020 Cl.12.11, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, Cl.7.10 IEC 62053-24
119	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Influence of heating	Cl.6.10.5 IS:16444 (Part1) , A1,2 & 3 :2015, CBIP - 325:2015 Cl.5.4.5, IS 13779:2020 Cl.12.7.5, IEC 62052-31:2024 Cl.10.4, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24



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120	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Influence of supply Voltage	CI.6.10.2 IS:16444(part1)A1&2&3:2015, CBIP- 325:2015 CI.5.4.2, IS13779:2020 CI.12.7.2, IEC62052-11:2020 CI.9.3.2, IEC62053-21:2020 CI.7.10, IEC62053-22:2020 CI.7.10, IEC62053-23:2020 CI.7.10, IEC62053-24
121	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	CI.5.4.6.4 CBIP-325:2015, IS 16444(Part 1):2015 A.1 & 2 & 3 CI.6.10.6 , CI.12.7.6.4 IS 13779
122	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Interpretation of test Results	CBIP-325:2015 CI.5.6.7 & 5.6.8, IS 16444 (Part 1):2015 A.1&2&3 CI.6.12, IS 13779:2020 CI.12.16, CI.8.0 IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24: 2020, IEC 62055 -31
123	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Magnetic induction of external origin (0.5mT)	CBIP-325:2015 CI.5.6.2.3, IS 16444(Part 1):2015 A.1&2&3 CI.6.12, IS 13779:2020 CI.12.11, IEC 62052-11:2020 CI.9.3.12, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24



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124	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Marking of meters, nameplate, connection diagrams, and terminal Marking	CBIP: 325:2015 Cl.4.2.2.11, IS 16444 (Part 1):2015 A.1,2&3 Cl. 6.8,IS 13779:2020 Cl.6.0, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24
125	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Operation of an Accessories	CBIP - 325:2015 Cl.4.6.2, IS 16444 (Part 1):2015 A.1&2&3 Cl.6.12 ,IS 13779:2020 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
126	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Power Consumption	CBIP-325:2015 Cl 5.4.1,IS 16444 (Part1): 2015 A.1,2&3 Cl.6.10.1, IS 13779:2020 Cl.12.7.1, IEC 62052-11:2020 Cl.4.4, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, Cl.4.4 IEC 62053-24
127	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Protection against penetration of dust and water	CBIP - 325:2015 Cl. 5.2.5, IS 16444 (Part 1): 2015 A.1,2&3 Cl.6.5, IS 13779:2020 Cl.12.5, IEC 62052-31 : 2024 Cl.11, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24



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128	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	CBIP-325:2015 Cl.4.6.3, IS 16444(Part 1):2015 A.1, 2 & 3 Cl.6.12, IS 13779:2020 Cl.12.11, IEC 62052-11:2020, Cl.9.4.7, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, Cl.7.10 IEC 62053-24
129	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Shock test	CBIP-325:2015 Cl.5.2.2, IS 16444(Part 1): 2015 A.1,2 & 3 Cl.6.5, IS 13779:2020 Cl.12.3.1, IEC 62052-11:2020 Cl.5.2.2, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24
130	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Spring Hammer Test/ mechanical test of meter case	CBIP-325:2015 Cl.5.2.1, IS 16444 (Part 1): 2015 A.1,2&3 Cl.6.5, IS 13779:2020 Cl.12.3.3, IEC 62052-31:2024 Cl.8.2, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24
131	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Stray DC magnetic induction of external origin 67mT	CBIP-325:2015 Cl.5.6.2.2, IS 16444 (Part 1):2015 A.1,2&3 Cl.6.12, Cl.12.11 IS 13779



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132	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	CI.4.4.7 CBIP -325:2015, IS 16444 (Part 1):2015 A.1,2&3 CI.6.10.7, IS 13779 :2020 CI.12.8, IEC 62052-11: 2020 CI.9.4.13, IEC 62053-21:2020 CI.7.10, IEC 62053-22:2020 CI.7.10, IEC 62053-23:2020 CI.7.10,IEC 62053-24
133	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	CBIP-325:2015 CI.5.6.4, IS 16444(Part 1) :2015 A.1,2&3 CI.6.12, IS 13779:2020 CI.12.13, IEC 62052-11:2020, IEC 62053-21:2020, IEC62053-22:2020,IEC 62053-23:2020,CI.7.6 IEC 62053-24
134	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 No load condition	CBIP-325:2015 CI.5.6.4, IS 16444(Part 1):2015 A.1,2&3 CI.6.12, IS 13779:2020 CI.12.14, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020,IEC 62053-23:2020, IEC 62053-24, IEC 62055 -31
135	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	CBIP-325:2015 CI.5.6.9, CI.6.12 IS 16444(Part 1):2015 A.1,2&3 IS 13779:2020 CI.12.17, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020,IEC 62053-23:2020,CI.7.8 IEC 62053-24



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136	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 resistance to heat & fire	CBIP -325:2015 Cl.5.2.4, IS 16444 (Part 1): 2015 A.1,2&3 Cl.6.5, IS 13779:2020 Cl.12.4, IEC 62052-31:2015Cl.9.3.2.1, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24
137	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	CBIP-325:2015 Cl.5.6.5, IS 16444(Part 1):2015 A.1,2&3 Cl.6.12, IS 13779:2020 Cl.12.14, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24, CL.7.7, Cl.8.0 IEC 62055 -31
138	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 on limits of error	CBIP-325:2015 Cl.5.6.8, IS 16444 (Part 1):2015 A.1&2&3 Cl.6.12, IS 13779:2020 Cl.11.1, Cl.8.0 IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-23:2020, IEC 62053-24: 2020, IEC 62055 -31
139	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	Cl.4.6.3 CBIP-325:2015, IS 16444 (Part 1):2015 A.1&2 Cl.6.12, IS 13779:2020 Cl.12.11, IEC 62052-11:2020 Cl.9.4.5, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, Cl.7.10 IEC 62053-24



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140	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 variation	CBIP-325:2015 Cl.4.6.3, IS 16444(Part 1):2015 A.1&2 Cl.6.12, IS 13779:2020 Cl.12.11, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020,IEC 62053-23:2020,Cl 7.10 IEC 62053-24
141	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter 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	CBIP – 325:2015 Cl.4.2.2, IS 16444 (Part 1): 2015 A.1&2&3 Cl.6.0, IS 13779:2020 Cl.6.0, IEC 62052-11:2020Cl.5.0, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24
142	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Influence of self heating	Cl.6.10.4 IS:16444 (Part 1) A1&2&3:2015, CBIP-325:2015 Cl.5.4.4, IS 13779:2020 Cl.12.7.4, IEC 62052-11:2020 Cl.9.4.11, IEC 62053-21, IEC 62053-22, IEC 62053-23,Cl.7.10 IEC 62053-24
143	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Short time over current Test	Cl.6.10.3 IS 16444 (Part 1) A.1,2&3:2015, CBIP-325:2015 Cl.5.4.3, IS 13779:2020 Cl.12.7.3, IEC 62052-11:2020 Cl.9.4.10, IEC 62053-21, IEC 62053-22, IEC 62053-23,Cl.7.10 IEC 62053-24



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144	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2	AC High voltage test	IS 13779:2020 Cl.12.7.6.3, CBIP-325:2015 Cl.5.4.6.3, IS 16444(Part 1):2015 A.1, 2 & 3 Cl.6.10.6, IEC 62052-31:2015 Cl.6.9.3.3, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020,IEC 62053-23:2020, IEC 62053-24
145	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	CBIP-325:2015 Cl.5.6.7, IS 16444(Part 1):2015A.1&2&3 Cl.6.12, IS 13779:2020 Cl.12.16, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24
146	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Waveform 10% of 3rd harmonic in the current	CBIP-325:2015 Cl.4.6.3, IS 16444 (Part 1):2015 A.1&2 Cl.6.12, IS 13779:2020 Cl.12.11 : 2020, Cl 4.6.2 IS 15884
147	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	Test of meter constant	Cl.5.6.6 CBIP-325:2015, Cl.6.12 IS 16444(Part 1):2015 A.1&2&3 IS 13779:2020 Cl.12.15, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24,Cl.7.4: 2020, Cl.8.0 IEC 62055 -31
148	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Test for Data Exchange Protocol	IS16444 (Part 1): 2015 A.1,2&3 Cl.10.5, IS15959 (Part 1): 2011 with Am.1,2,3,4,5 , IS15959 (Part 2) Am.1and 2:



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149	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Direct Connected Watthour Smart Meter Class 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.1,2&3 Cl.10.6.2 IS15959 (Part 1): 2011 with Am.1,2,3,4,5, IS15959 (Part 2): 2016 with A.1,2,
150	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Transformer operated Watthour and VAr - hour Smart Meter Class 0.2S,0.5S and 1.0S	Smart meter Functional Requirement	Cl.10.0 IS 16444 (Part 2) A.1
151	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 Data Exchange Protocol	IS 16444 (Part 2) : 2016 A.1 Cl.9.4, IS 15959 (Part 1): 2011 with Am.1,2,3,4,5 , IS 15959 (Part 3)
152	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 (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.9.5.2 IS15959 (Part 1): 2011 with Am.1,2,3,4,5 , IS15959 (Part 3)



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153	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) Amd 1&2
154	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 -Other 2.11.6 Indian Event Reference Table - Non Roll Over2.11.7 Indian Event Reference Table -Control 2.12 Selective access by Entry for Event Log Profile	CI No 4 to 14 Annex A to L of IS 15959 (Part 1) A.1,2,3,4,5



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155	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 parameters2.9.5 Selective 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) A.1,2,3,4,5
156	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) -2011A.1 to 5



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157	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D1 & D2	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 24 of IS 15959 (Part 2) - Amd 1,2
158	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 Parameters 20.0 Test for Smart Meter Functional Requirements 21.0 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) Amd 1,2



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159	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 A1,2
160	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D3 & D4	10.0 Daily load profile parameters11.0 Selective 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 28 of IS 15959 (Part 3)



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161	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(g) Indian Event Reference Table - Control18.0 Selective access by Entry for Event Log Profile	CI No 4 to 28 of IS 15959 (Part 3)
162	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)



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163	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)
164	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter - static energy meters category A, B,C1,C2 & C3	Conformance test	IS 15959 (Part 1): 2011 A.1 to 5, IS / IEC 62056 (DLMS / COSEM)
165	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter -Smart meter category D1 & D2	Conformance test	IS 15959 (Part 2) A.1,2 : 2016, IS / IEC 62056 (DLMS / COSEM)
166	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter -Smart meter category D3 & D4	Conformance test	IS 15959 (Part 3): 2017 , IS / IEC 62056 (DLMS / COSEM)
167	ELECTRICAL- EMI / EMC TEST FACILITY	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Electrostatic Discharge Test	IEC 62055-31:2022 Cl.7.6.3, Cl.5.5.2 IS 15884



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168	ELECTRICAL- EMI / EMC TEST FACILITY	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Fast transient burst test (only for Mains and auxiliary circuits)	CI.5.5.4 IS 15884:2024, CI.7.6.5 IEC 62055-31
169	ELECTRICAL- EMI / EMC TEST FACILITY	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Radio Interference Measurement Conducted Emission-(0.15MHz to 30MHz)	CI.7.6.9 IEC 62055- 31: 2022, CI.5.5.5 IS 15884
170	ELECTRICAL- EMI / EMC TEST FACILITY	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Radio Interference Measurement Radiated emission-(30MHz to 300MHz)	CI.5.5.5 IS 15884: 2024, CI.7.6.9 IEC 62055-31
171	ELECTRICAL- EMI / EMC TEST FACILITY	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Surge immunity test (only for Mains and auxiliary circuits)	IEC62055 -31:2022 CI.7.6.7, CI.5.5.6 IS 15884
172	ELECTRICAL- EMI / EMC TEST FACILITY	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of Immunity to electromagnetic HF/RF Fields	IEC 62055-31:2022 CI.7.6.4, CI.5.5.3 IS 15884
173	ELECTRICAL- EMI / EMC TEST FACILITY	AC Static Transformer operated Watthour and VAR- Hour Meters Class 0.2S, 0.5S and 1.0S	Electrostatic Discharge Test	CBIP- 325:2015 CI.5.5.2, IS 14697:2021 A.1,2, CI.12.8.2, IEC 62052-11:2020 CI.9.3.3, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-24
174	ELECTRICAL- EMI / EMC TEST FACILITY	AC Static Transformer operated Watthour and VAR- Hour Meters Class 0.2S, 0.5S and 1.0S	Fast transient burst test (only for Mains and auxiliary circuits)	CBIP-325:2015 CI.5.5.3, IS14697: 2021 A.1,2 CI.12.8.4, IEC 62052-11:2020 CI.9.3.6, IEC 62053-21:2020 CI.7.10, IEC 62053-22:2020 CI.7.10, CI.7.10 IEC 62053-24
175	ELECTRICAL- EMI / EMC TEST FACILITY	AC Static Transformer operated Watthour and VAR- Hour Meters Class 0.2S, 0.5S and 1.0S	Radio Interference Measurement - Conducted emission-(0.15MHz to 30MHz)	CBIP -325:2015 CI.5.5.5, CI.12.8.6(a) IS 14697 A.1,2



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176	ELECTRICAL- EMI / EMC TEST FACILITY	AC Static Transformer operated Watthour and VAR- Hour Meters Class 0.2S, 0.5S and 1.0S	Radio Interference Measurement-Radiated emission-(30MHz to 300MHz)	CBIP-325:2015 Cl.5.5.5, Cl.12.8.6(a) IS 14697 A.1,2
177	ELECTRICAL- EMI / EMC TEST FACILITY	AC Static Transformer operated Watthour and VAR- Hour Meters Class 0.2S, 0.5S and 1.0S	Surge immunity test (only for Mains and auxiliary circuits)	IS 14697:2021 A.1,2 Cl.12.8.5, IEC 62052-11:2020 Cl.9.3.9, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24:2020, IEC 62052-31
178	ELECTRICAL- EMI / EMC TEST FACILITY	AC Static Transformer operated Watthour and VAR- Hour Meters Class 0.2S, 0.5S and 1.0S	Test of Immunity to electromagnetic HF/RF Fields	Cl.5.5.4 CBIP 325:2015 ,Cl.12.8.3 IS 14697 A.1,2
179	ELECTRICAL- EMI / EMC TEST FACILITY	AC Static Watthour Meter Class 1 and 2	Electrostatic Discharge Test	CBIP -325:2015 Cl.5.5.2, IS 13779:2020 Cl.12.9.2, IEC 62052-11:2020 Cl.9.3.3, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24
180	ELECTRICAL- EMI / EMC TEST FACILITY	AC Static Watthour Meter Class 1 and 2	Fast transient burst test (only for Mains and auxiliary circuits)	CBIP-325:2015 Cl.5.5.3, IS 13779:2020 Cl.12.9.4, IEC 62052-11:2020 Cl.9.3.6, IEC 62053-21:2020 Cl.7.10,IEC 62053-22:2020 Cl.7.10, IEC 62053-23:2020 Cl.7.10,Cl.7.10 IEC 62053-24



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181	ELECTRICAL- EMI / EMC TEST FACILITY	AC Static Watthour Meter Class 1 and 2	Radio Interference Measurement-Conducted emission-(0.15MHz to 30MHz)	CBIP-325:2015 Cl.5.5.5, Cl.12.9.6 IS 13779:2020, Cl.No. 9.3.14, IEC62052-11:2020 ,CI 10.0 IEC 62053-21:2020, CI 10.0 IEC 62053-22:2020, CI10.0 IEC 62053-23:2020, CI 10.0 IEC 62053-24: 2020, CISPR 32:2015/A1
182	ELECTRICAL- EMI / EMC TEST FACILITY	AC Static Watthour Meter Class 1 and 2	Radio Interference Measurement-Radiated emission-(30MHz to 300MHz)	CBIP-325:2015 Cl.5.5.5, Cl.12.9.6 IS 13779
183	ELECTRICAL- EMI / EMC TEST FACILITY	AC Static Watthour Meter Class 1 and 2	Surge immunity test (only for Mains and auxiliary circuits)	Cl.12.9.5 IS 13779:2020, IEC 62052-11:2020 Cl.9.3.9, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24:2020, IEC 62052-31
184	ELECTRICAL- EMI / EMC TEST FACILITY	AC Static Watthour Meter Class 1 and 2	Test of Immunity to electromagnetic HF/RF Fields	Cl.5.5.4 CBIP - 325:2015, Cl.12.9.3 IS 13779
185	ELECTRICAL- EMI / EMC TEST FACILITY	AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Electrostatic Discharge Test	CBIP -325:2015 Cl.5.5.2, Cl.6.11 IS:16444 (Part 1) : 2015 A1&2&3, IEC 62052-11:2020 Cl.9.3.3, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24



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186	ELECTRICAL- EMI / EMC TEST FACILITY	AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Fast transient burst test (only for Mains and auxiliary circuits)	Cl.6.11 IS:16444 (Part 1) A1&2&3:2015, CBIP-325:2015 Cl.5.5.3, IEC 62052-11:2020 Cl.9.3.6, IEC 62053-21:2020 Cl.7.10,IEC 62053-22:2020 Cl.7.10, IEC 62053-23:2020 Cl.7.10,Cl.7.10 IEC 62053-24
187	ELECTRICAL- EMI / EMC TEST FACILITY	AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Radio Interference Measurement-Conducted emission-(0.15MHz to 30MHz)	CBIP-325:2015 Cl.5.5.5, Cl.6.11 IS 16444 (Part1) A.1,2&3:2015, Cl.No. 9.3.14, IEC62052-11:2020 ,Cl 10.0 IEC 62053-21:2020, Cl 10.0 IEC 62053-22:2020, Cl10.0 IEC 62053-23:2020, Cl 10.0 IEC 62053-24: 2020, CISPR 32:2015/A1
188	ELECTRICAL- EMI / EMC TEST FACILITY	AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Radio Interference Measurement-Radiated emission-(30MHz to 300MHz)	CBIP-325:2015 Cl.5.5.5, Cl.6.11 IS 16444(part1) A.1,2&3
189	ELECTRICAL- EMI / EMC TEST FACILITY	AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Surge immunity test (only for Mains and auxiliary circuits)	Cl.6.11 IS 16444(part)A.1,2&3:2015 IEC 62052-11:2020 Cl.9.3.9, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24:2020, IEC 62052-31
190	ELECTRICAL- EMI / EMC TEST FACILITY	AC.Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of Immunity to electromagnetic HF/RF Fields	Cl.5.5.4 CBIP - 325:2015, Cl.6.11 IS 16444 (Part 1)A.1,2 & 3



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191	ELECTRICAL- EMI / EMC TEST FACILITY	AC.Static Transformer operated Watthour and VAr hour Smart Meter Class 0.2S, 0.5S and 1.0S	Surge immunity test (only for Mains and auxiliary circuits)	IS 16444 (Part2): 2017 A.1 Cl.6.11, IEC 62052-11:2020 Cl.9.3.9, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-23:2020, IEC 62053-24:2020, IEC 62052-31
192	ELECTRICAL- EMI / EMC TEST FACILITY	AC.Static Transformer operated Watthour and VAr hour Smart Meter Class 0.2S,0.5S and 1.0S	Electrostatic Discharge Test	CBIP- 325:2015 Cl.5.5.2, Cl.6.11 IS 16444 (Part2) A.1:2017, IEC 62052-11:2020 Cl.9.3.3, IEC 62053-21:2020, IEC 62053-22:2020, IEC 62053-24
193	ELECTRICAL- EMI / EMC TEST FACILITY	AC.Static Transformer operated Watthour and VAr hour Smart Meter Class 0.2S,0.5S and 1.0S	Fast transient burst test (only for Mains and auxiliary circuits)	CBIP-325:2015 Cl.5.5.3, IS 16444 (Part 2) :2017A.1Cl.6.11, IEC 62052-11:2020 Cl.9.3.6,IEC 62053-21:2020 Cl.7.10,IEC 62053-22:2020 Cl.7.10, Cl.7.10 IEC 62053-24
194	ELECTRICAL- EMI / EMC TEST FACILITY	AC.Static Transformer operated Watthour and VAr hour Smart Meter Class 0.2S,0.5S and 1.0S	Radio Interference Measurement - Conducted emission-(0.15MHz to 30MHz)	CBIP -325:2015 Cl.5.5.5, Cl.6.11 IS 16444 (Part 2)A.1
195	ELECTRICAL- EMI / EMC TEST FACILITY	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)	CBIP-325:2015 Cl.5.5.5, Cl.6.11 IS 16444 (Part 2)A.1
196	ELECTRICAL- EMI / EMC TEST FACILITY	AC.Static Transformer operated Watthour and VAr hour Smart Meter Class 0.2S,0.5S and 1.0S	Test of Immunity to electromagnetic HF/RF Fields	Cl.5.5.4 CBIP 325:2015, Cl.6.11 IS 16444(Part 2)A.1



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197	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Distribution Transformer (0.005MVA to 2.5 MVA upto 33kV Class)	Temperature rise test	IS:1180 (Part-1): 2014 , Amd No.1: 2016 , Amd No.2 : 2017, Amd No.3 2019 , Amd No.4 : 2021; ANSI C 57.12.90: 2015; IEEE C57.12.00-2015; ANSI C 57.12.00 :: 2015, IEC 60076-2: 2011, IS 2026(Part-2):
198	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Distribution Transformers (0.005MVA to 2.5 MVA upto 33kV Class)	Applied voltage test	IS:1180 (Part-1)IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3 2019+A4.2021; IS 1180-3:
199	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Distribution Transformers (0.005MVA to 2.5 MVA upto 33kV Class)	Chopped-wave Lightning Impulse Voltage test	IS 1180 (Part 1) : 2014 + Amd No.1: 2016 + Amd No.2 : 2017;+Amd No. 3+A4.: 2021 and IS 1180 (Part 3) :
200	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Distribution Transformers (0.005MVA to 2.5 MVA upto 33kV Class)	Lightning Impulse Voltage withstand test	IS 1180 (Part 1) : 2014 + Amd No.1: 2016 + Amd No.2 : 2017;+Amd No. 3+A4 : 2021, and IS 1180 (Part 3) : 2021
201	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Distribution Transformers (0.005MVA to 2.5 MVA upto 33kV Class)	Induced over voltage Withstand test	IS:1180 (Part-1), 2014, Amd No.1 2016, Amd No.2 2017; Amd No. 3 2019, Amd No 4.2021; IS 1180-3:
202	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Distribution Transformers (0.005MVA to 2.5 MVA upto 33kV Class)	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 2019, Amd No 4.2021; IS 1180-3:
203	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Distribution Transformers (0.005MVA to 2.5 MVA upto 33kV Class)	Measurement of Insulation Resistance	IS:1180 (Part-1), 2014, Amd No.1 2016, Amd No.2 2017; Amd No. 3 2019, A4.2021; IS 1180-3:



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204	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Distribution Transformers (0.005MVA to 2.5 MVA upto 33kV Class)	Measurement of no load current harmonics	IS:1180 (Part-1), 2014, Amd No.1 2016, Amd No.2 2017; Amd No. 3 2019, Amd No 4.2021; IS 1180-3:
205	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Distribution Transformers (0.005MVA to 2.5 MVA upto 33kV Class)	Measurement of No-Load Loss and Current	IS:1180 (Part-1), 2014, Amd No.1 2016, Amd No.2 2017; Amd No. 3 2019, Amd No 4.2021; IS 1180-3:
206	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Distribution Transformers (0.005MVA to 2.5 MVA upto 33kV Class)	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 2019, Amd No 4.2021; IS 1180-3:
207	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Distribution Transformers (0.005MVA to 2.5 MVA upto 33kV Class)	Measurement of Winding Resistance	IS:1180 (Part-1), 2014, Amd No.1 2016, Amd No.2 2017; Amd No. 3 2019, Amd No 4.2021; IS 1180-3:
208	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Distribution Transformers (0.005MVA to 2.5 MVA upto 33kV Class)	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):
209	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Distribution Transformers (0.005MVA to 2.5 MVA upto 33kV Class)	Thermal ability to withstand short circuit 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):
210	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Distribution Transformers (0.005MVA to 2.5 MVA upto 33kV Class)	Zero Sequence impedance for three phase transformer	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):



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211	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Dry Type Transformer (0.005MVA to 10 MVA upto 33kV Class)	Thermal ability to withstand short Circuit test	IS 2026- (Part 11):2021/IEC 60076-11:2018, IS:11333:1985; IEC 60076-11:
212	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Dry Type Transformers (0.005MVA to 10 MVA upto 33kV Class)	Measurement of winding resistance	IS 2026- (Part 11):2021/IEC 60076-11:2018, IS:11333:1985; IEC 60076-11:
213	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Dry Type Transformers (0.005MVA to 10 MVA upto 33kV Class)	Temperature rise test	IS:2026-11: 2021; IS: 11171: 1985; IS 11333: 1985; IEC 60076-11:
214	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Dry Type Transformers (0.005MVA to 10 MVA upto 33kV Class)	Measurement of Impedance Voltage/Short Circuit Impedance and Load Loss	IS 2026- (Part 11):2021/IEC 60076-11:2018, IS:11333:1985; IEC 60076-11:
215	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Dry Type Transformers (0.005MVA to 10 MVA upto 33kV Class)	Measurement of No-load loss and current	IS 2026- (Part 11):2021/IEC 60076-11:2018, IS:11333:1985; IEC 60076-11:
216	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Dry Type Transformers (0.005MVA to 10 MVA upto 33kV Class)	Measurement of voltage ratio and check of phase displacement	IS 2026- (Part 11):2021/IEC 60076-11:2018, IS:11333:1985; IEC 60076-11:
217	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Dry Type Transformers (0.005MVA to 10 MVA upto 33kV Class)	Short Circuit Withstand Test (Ability to withstand the dynamic effects of short circuit)	IS 2026- (Part 11):2021/IEC 60076-11:2018, IS:11333:1985; IEC 60076-11:
218	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Dry type transformers (1kV to 33kV and 5KVA to 10MVA)	Chopped wave Lightning Impulse test (LIC)	IEC-60076-11, 2018 and IS 2026 : Part 11 :
219	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Dry Type Transformers (5KVA to 10 MVA and 1 kV to 33 kV)	Zero Sequence impedance for three phase transformer	IS 2026- (Part 11):2021/IEC 60076-11:2018, IS:11333:1985; IEC 60076-11:



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220	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Dry Type Transformers(0.005MVA to 10 MVA upto 33kV Class)	Applied voltage test	IS 2026- (Part 11):2021/IEC 60076-11:2018, IS:11333: 1985; IEC 60076-11:
221	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Dry Type Transformers(0.005MVA to 10 MVA upto 33kV Class)	Induced over voltage withstand test	IS 2026- (Part 11):2021/IEC 60076-11:2018, IS:11333: 1985; IEC 60076-11:
222	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Dry Type Transformers(0.005MVA to 10 MVA upto 33kV Class)	Measurement of no-load current harmonics	IS 2026- (Part 11):2021/IEC 60076-11:2018, IS:11333: 1985; IEC 60076-11:
223	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Dry-type transformers (5KVA to 10 MVA and 1 kV to 33 kV)	Full wave lightning impulse test (LI)	IEC 60076-11: 2018 , IS 2026-11: 2021 and IS 11333 :
224	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Power Transformer (2.5MVA to 10 MVA upto 33kV Class)	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 C57.12.90:2021; IEEE C57.15:2017, IEEE C57.12.20:2017; IS 2026 (PART 21):2018; IEC 60076-21:



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225	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Power Transformer (2.5MVA to 10 MVA upto 33kV Class)	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 C57.12.90:2021 ; IEEE C57.15:2017, IEEE C57.12.20:
226	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Power Transformers (2.5MVA to10 MVA and 1 kV to 33 kV)	Full wave lightning impulse test (LI)	IEC 60076-1: 2011; IEC 60076-3: 2013+AMD1:2018; IEC 60076-4: 2002; IEC 60076-8: 1997, IEC 60076-21: 2018 IS: 2026 (Part-1) : 2011; IS: 2026 (Part-3): 2018; IS:2026 (Part-5) : 2011; IS 2026(Part 21):2018; IEEE C 57.12.00:2021; IEEE C57.12.20: 2023; IEEE C57.12.90:2021, IEEE C57.15:
227	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Power Transformers (2.5MVA to 10 MVA upto 33kV Class)	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:



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228	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Power Transformers (2.5MVA to 10 MVA upto 33kV Class)	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 C57.12.90:2021; IEEE C57.15:2017, IEEE C57.12.20:
229	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Power Transformers (2.5MVA to 10 MVA upto 33kV Class)	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 C57.12.90:2021; IEEE C57.15:2017, IEEE C57.12.20:2017; IS 2026 (PART 21):2018; IEC 60076-21:
230	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Power Transformers (2.5MVA to 10 MVA upto 33kV Class)	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:



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231	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Power Transformers (2.5MVA to 10 MVA upto 33kV Class)	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 C57.12.90:2021; IEEE C57.15:2017, IEEE C57.12.20:2017;IS 2026(PART 21):2018; IEC 60076-21:
232	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Power Transformers (2.5MVA to 10 MVA upto 33kV Class)	Measurement of no-load current harmonics	IS: 2026 (Part-1), 2011, IEC 60076-1:
233	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Power Transformers (2.5MVA to 10 MVA upto 33kV Class)	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:



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234	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Power Transformers (2.5MVA to 10 MVA upto 33kV Class)	Measurement of voltage ratio and check of voltage vector relationship	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:
235	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Power Transformers (2.5MVA to 10 MVA upto 33kV Class)	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:
236	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Power Transformers (2.5MVA to 10 MVA upto 33kV Class)	Zero Sequence impedance for three phase transformer	IS: 2026 (Part-1), 2011, IEC 60076-1:



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237	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Power Transformers (2.5MVA to 10 MVA and 1 kV to 33 kV)	Chopped wave Lightning Impulse test (LIC)	IEC 60076-1: 2011; IEC 60076-3: 2013+AMD1:2018; IEC 60076-4: 2002; IEC 60076-8: 1997; IEC 60076-21: 2018 IS: 2026 (Part-1):2011; IS: 2026 (Part-3): 2018; IS:2026 (Part-5): 2011; IS 2026(Part 21):2018; IEEE C 57.12.00:2021; IEEE C57.12.20: 2023; IEEE C57.12.90:2021, IEEE C57.15:
238	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Reactors (1 kV to 33kV)	Chopped wave Lightning Impulse test (LIC)	IEC60076-1.: 2011, IEC 60076-4:2002 IEC:60076-6:2007; IS: 2026 (Part-1), 2011, IS 2026:part-6:2017 IEEE C57.32:
239	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Reactors (1 kV to 33kV)	Lightning Impulse Voltage Withstand Test	IEC60076-1: 2011, IEC 60076-4:2002, IEC:60076-6:2007; IS: 2026 (Part-1): 2011, IS 2026:part-6:2017 and IEEE C57.32:
240	ELECTRICAL-INDUCTORS, TRANSFORMERS & ACCESSORIES	Traction Transformers (5KVA to 2.5MVA, 1 kV to 33 kV)	Lightning impulse voltage withstand test	IEC-60310
241	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	AC Circuit Breakers (1kV to 132kV)	Lightning impulse voltage tests	IEC 62271-1:2017+ A1:2021, IEC 62271-100:2021+AMD1:2024, IS/IEC 62271 (Part 1):2017 and IS/IEC62271 (part-100): 2021



National Accreditation Board for Testing and Calibration Laboratories

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SHILAPUR, NASHIK, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

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242	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	AC metal / insulation enclosed switchgear and control gear 1 kV and up to and including 52 kV	Lightning impulse voltage withstands test	IEC 62271-1:2017 +AMD1:2021, IEC 62271-200:2021+AMD1:2024, IEC 62271-201: 2014, IS/IEC 62271 (Part 1):2017, IS/IEC 62271 : Part 200 : 2021, IS/IEC 62271 : PART 201 : 2006
243	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	AC switches for rated voltages above 1 kV up to and including 52 kV	Lightning impulse voltage tests	IEC 62271-1:2017 +AMD1:2021, IEC 62271-103:2021, IS/IEC 62271 (Part1)-2017 and IS/IEC 62271(Part 103):2021
244	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	AC switches for rated voltages higher than 52 kV (53kV to 132kV)	Lightning impulse voltage test	IEC 62271-1:2017 +AMD1:2021, IEC 62271-104:2020, IS/IEC 62271 :Part 1:2017 and IS/IEC 62271 :Part 104: 2020
245	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages (1 kV to 132 kV)	Dry lightning impulse voltage withstand test	IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988, IEEE C57.19.01:2017
246	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Coupling capacitors (1 kV to 33 kV)	Lightning impulse voltage withstands test	IEC 60358-1:2025, IEC 60358-2:2013, IS/IEC 60358 : Part 1 : 2012, IS/IEC 60358 : Part 2 : 2013
247	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Disconnectors and Earthing switches (1kV to 132kV)	Lightning impulse voltage withstands test	IEC 62271-1:2017 + AMD1:2021, IEC 62271-102:2018+AMD1:2022, IS/IEC 62271 (Part1): 2017, IS/IEC 62271(Part 102): 2018



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248	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage fuses: Current limiting fuses and expulsion fuses (1 kV to 132 kV)	Lightning impulse voltage withstands test	IEC 60282-1:2020 ,IEC 60282-2:2008, IEC 60282-4:2020, IS 9385 : Part 1 : 2024, IS 9385 : Part 2 : 2018
249	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators (All types) for OH lines with a nominal voltage above 1000 V, Insulator strings (All types), long rod insulators strings, Solid Core Insulator, Composite Insulators, pin insulators, line post insulators, traction insulators, guy insulator, ceramic and glass insulators, Polymeric HV insulators for indoor and outdoor (1 kV to 132 kV)	Dry lightning-impulse withstand voltage test - using the withstand voltage procedure and using the 50 % flashover voltage procedure	IEC:60383-1:2023,IEC 60383-1:1993 (Revised), IEC:60383-2:1993, IEC: 61109:2025, IEC 60433:2021,IEC 62217:2025, IEC 61952-2008, IEC 60305 : 2021 , IEC 60273: 1990, IS 731:1971,IS 1445: 1977,IS 2071:2016, IS/IEC 60137 : 2017,IS/IEC 62155:2003,IS/IEC 60383 : Part 1 : 2023,IS/IEC 60383 : Part 2 : 1993, IS/IEC 60433 : 2021,IS/IEC 60305 : 2021, IS/IEC 60273 : 1990, ANSI/NEMA C29.1-2018
250	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Post Insulators (1 kV to 132 kV)	Dry lightning-impulse withstand voltage test - using the withstand voltage procedure and using the 50 % flashover voltage procedure	IEC 60168+AMD1:1997+AMD 2:2000 , IEC 62231:2006, IS/IEC 60168 : 2000
251	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Surge Arresters: Metal Oxide surge arresters without gap for ac systems (1 kV to 132 kV)	Lightning impulse voltage test on the arrester housing (Dry)	IEC 60099-4:2014, IS 15086(Part 4):2017