



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARGANAS (N), WEST BENGAL, INDIA	Page No	3 of 43
Accreditation Standard	ISO/IEC 17025:2017	Last Amended on	04/05/2023
Certificate Number	TC-5637		
Validity	14/03/2023 to 13/03/2025		

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- CELLS & BATTERIES	Battery	Verification of dimensions	Clause no. 6 & Table 2 of IS 1652
39	ELECTRICAL- CELLS & BATTERIES	Battery	Verification of dimensions	Clause no. 7.4 of RDSO IRS : S : 88/2004
40	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss Test	Clause no. 11.9 of IS 13369
41	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss Test	Clause no. 12.11 of IS 1651
42	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss Test	Clause no. 7.12 of RDSO IRS : S : 88
43	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss Test	Clause no. 8.6 of IS 16270
44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Damp Heat cyclic Test	Cl. No.: 12.6.3 & 6 of IS 14697
45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Dry Heat Test	Cl. No.: 12.6.1 of IS 14697
46	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Fast Transient burst test	Cl. No.: 12.8.4 of IS 14697
47	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Impulse Voltage Test	Cl. No.: 12.7.6.2 & 6 of IS 14697
48	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Influence of short time over currents	Cl. No.: 12.7.3 of IS 14697
49	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Influence of supply voltage	Cl. No.: 12.7.2 of IS 14697
50	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Insulation Test	Cl. No.: 12.7.6.4 & 6 of IS 14697



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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
51	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Interpretation of test results	Cl. No.: 12.15 of IS 14697
52	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Protection against Penetration of dust and water	Cl. No.: 12.5 & 6 of IS 14697
53	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Radio interference measurements	Cl. No.: 12.8.6 of IS 14697
54	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Shock Test	Cl. No.: 12.3.1 of IS 14697
55	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Spring Hammer Test	Cl. No.: 12.3.3 of IS 14697
56	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Surge Immunity Test	Cl. No.: 12.8.5 of IS 14697
57	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Test of ambient temperature influence	Cl. No.: 12.11 of IS 14697
58	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Test of immunity to earth/phase fault	Cl. No.: 12.17 of IS 14697
59	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Test of Immunity to electromagnetic HF field	Cl. No.: 12.8.3 of IS 14697
60	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Test of Immunity to electrostatic discharges	Cl. No.: 12.8.2 of IS 14697
61	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Test of Influence of heating	Cl. No.: 12.7.5 & 6 of IS 14697



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62	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Test of Influence of self heating	Cl. No.: 12.7.4 of IS 14697
63	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Test of influence quantities	Cl. No.: 12.10 of IS 14697
64	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Test of Meter Constant	Cl. No.: 12.14 of IS 14697
65	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Test of no- load condition	Cl. No.: 12.12 of IS 14697
66	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Test of power consumption	Cl. No.: 12.7.1 of IS 14697
67	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Test of repeatability of error	Cl. No.: 12.16 of IS 14697
68	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Test of resistance to heat & fire	Cl. No.: 12.4 & 6 of IS 14697
69	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Test of starting condition	Cl. No.: 12.13 of IS 14697
70	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Test on Limits of Error	Cl. No.: 11.1 & 7 of IS 14697
71	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Vibration Test	Cl. No.: 12.3.2 of IS 14697
72	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	Visual Inspection	Cl No. 7 of IS 14697



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73	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Cold Test	Cl. No.: 12.6.2 OF IS 13779(AMD.5)
74	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Damp Heat Cyclic Test	Cl. No.: 12.6.3 & 6 of IS 13779(AMD.5)
75	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Dry Heat Test	Cl. No.: 12.6.1 OF IS 13779(AMD.5)
76	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Fast Transient burst test	Cl. No.: 12.9.4 of IS 13779(AMD.5)
77	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Interpretation of test results	Cl. No.: 12.16 of IS 13779(AMD.5)
78	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Protection against Penetration of dust and water	Cl. No.: 12.5 & 6 of IS 13779(AMD.5)
79	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Radio interference measurements	Cl. No.:12.9.5 of IS 13779 (AMD.5)
80	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Shock Test	Cl. No.: 12.3.1 of IS 13779(AMD.5)
81	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Spring Hammer Test	Cl. No.: 12.3.3 OF IS 13779(AMD.5)
82	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Influence of supply voltage	Cl. No.: 12.7.2 of IS 13779(AMD.5)
83	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of ambient temperature influence	Cl. No.: 12.12 of IS 13779(AMD.5)



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84	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Immunity to electromagnetic HF field	Cl. No.: 12.9.3 of IS 13779(AMD.5)
85	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Immunity to electrostatic discharge	Cl. No.: 12.9.2 of IS 13779 (AMD.5)
86	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Influence of heating	Cl. No.: 12.7.5 & 6 of IS 13779(AMD.5)
87	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Influence of self heating	Cl. No.: 12.7.4 of IS 13779(AMD.5)
88	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of influence quantities	Cl. No.: 12.11 of IS 13779(AMD.5)
89	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Influence short-time overcurrents	Cl. No.: 12.7.3 of IS 13779(AMD.5)
90	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Meter Constant	Cl. No.: 12.15 of IS 13779(AMD.5)
91	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of no- load condition	Cl. No.: 12.13 of IS 13779(AMD.5)
92	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of power consumption	Cl. No.: 12.7.1 of IS 13779(AMD.5)
93	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of repeatability of error	Cl. No.: 12.17 of IS 13779(AMD.5)
94	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of resistance to heat & fire	Cl. No.: 12.4 & 6 of IS 13779(AMD.5)



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95	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of starting condition	Cl. No.: 12.14 of IS 13779(AMD.5)
96	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Vibration Test (sine)	Cl. No.: 12.3.2 of IS 13779(AMD.5)
97	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Insulation test	Cl. No.: 12.7.6.4 & 6 of IS 13779 (AMD.5)
98	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test on Limits of Error	Cl. No.: 11.1 & 7 of IS 13779(AMD.5)
99	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Three Phase	Test of immunity to earth / phase fault	Cl. No.: 12.8 of IS 13779(AMD.5)
100	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	AC High Voltage Test	Cl. No.: 12.7.6.3 & 6 of IS 14697(AMD.4)
101	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Cold Test	Cl. No.: 12.6.2 of IS 14697(AMD.4)
102	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Damp Heat Cyclic Test	Cl. No.: 12.6.3 & 6 of IS 14697(AMD.4)
103	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Dry Heat Test	Cl. No.: 12.6.1 of IS 14697(AMD.4)
104	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Fast Transient burst test	Cl. No.: 12.8.4 of IS 14697 (AMD.4)
105	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Impulse Voltage Test	Cl. No.: 12.7.6.2 & 6 of IS 14697(AMD.4)



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106	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Influence of short time over currents	Cl. No.: 12.7.3 of IS 14697(AMD.4)
107	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Influence of supply voltage	Cl. No.: 12.7.2 of IS 14697(AMD.4)
108	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Insulation Test	Cl. No.: 12.7.6.4 & 6 of IS 14697(AMD.4)
109	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Interpretation of test results	Cl. No.: 12.15 of IS 14697(AMD.4)
110	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Protection against Penetration of dust and water	Cl. No.: 12.5 & 6 of IS 14697(AMD.4)
111	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Radio interference measurements	Cl. No.: 12.8.5 of IS 14697(AMD.4)
112	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Shock Test	Cl. No.: 12.3.1 of IS 14697(AMD.4)
113	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Spring Hammer Test	Cl. No.: 12.3.3 of IS 14697(AMD.4)
114	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of ambient temperature influence	Cl. No.: 12.11 of IS 14697(AMD.4)
115	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of immunity to earth / phase fault	Cl. No.: 12.17 of IS 14697(AMD.4)
116	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of Immunity to electromagnetic HF field	Cl. No.: 12.8.3 of IS 14697(AMD.4)



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117	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of Immunity to electrostatic discharge	Cl. No.: 12.8.2 of IS 14697 (AMD.4)
118	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of Influence of heating	Cl. No.: 12.7.5 & 6 of IS 14697(AMD.4)
119	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of Influence of self heating	Cl. No.: 12.7.4 of IS 14697(AMD.4)
120	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of influence quantities	Cl. No.: 12.10 of IS 14697(AMD.4)
121	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of Meter Constant	Cl. No.: 12.14 of IS 14697(AMD.4)
122	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of no- load condition	Cl. No.: 12.12 of IS 14697(AMD.4)
123	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of power consumption	Cl. No.: 12.7.1 of IS 14697(AMD.4)
124	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of repeatability of error	Cl. No.: 12.16 of IS 14697(AMD.4)
125	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of resistance to heat & fire	Cl. No.: 12.4 & 6 of IS 14697(AMD.4)
126	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test of starting condition	Cl. No.: 12.13 of IS 14697(AMD.4)
127	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Test on Limits of Error	Cl. No.: 11.1 & 7 of IS 14697(AMD.4)



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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
128	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S AND 0.5S	Vibration Test	Cl. No.: 12.3.2 of IS 14697(AMD.4)
129	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0	Cold Test	Cl. No.: 12.6.2 of IS 14697
130	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR METERS (Class 0.2S and 0.5S) AND VAR-HOUR METERS (Class 0.2S ,0.5S and 1S)	AC High Voltage Test	Cl. No.: 12.7.6.3 & 6 of IS 14697
131	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS Class 1 & 2 (Single & Three Phase)	Impulse Voltage Test	Cl. No.: 12.7.6.2 & 6 of IS 13779 (AMD.5)
132	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS, CLAS 1 AND 2 Single & three phase	ac High Voltage test	CL. 12.7.6.3 & 6 of IS 13779(AMD.5)
133	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS, CLAS 1 AND 2 Single & three phase	ac High Voltage test	CL. 12.7.6.3 & 6 of IS 13779
134	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Cold Test	Cl. No.: 12.6.2 OF IS 13779
135	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Damp Heat Cyclic Test	Cl. No.: 12.6.3 & 6 of IS 13779
136	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Dry Heat Test	Cl. No.: 12.6.1 OF IS 13779
137	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Fast Transient burst test	Cl. No.: 12.9.4 of IS 13779
138	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Impulse Voltage Test	Cl. No.: 12.7.6.2 & 6 of IS 13779



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139	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Insulation test	Cl. No.: 12.7.6.4 & 6 of IS 13779
140	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Interpretation of test results	Cl. No.: 12.16 of IS 13779
141	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Protection against Penetration of dust and water	Cl. No.: 12.5 & 6 of IS 13779
142	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Radio interference measurement	Cl. No.:12.9.6 of IS 13779
143	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Shock Test	Cl. No.: 12.3.1 of IS 13779
144	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Spring Hammer Test	Cl. No.: 12.3.3 OF IS 13779
145	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Surge Immunity Test	Cl. No.: 12.9.5 of IS 13779
146	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of ambient temperature influence	Cl. No.: 12.12 of IS 13779
147	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Immunity to electromagnetic HF field	Cl. No.: 12.9.3 of IS 13779
148	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Immunity to electrostatic discharges	Cl. No.: 12.9.2 of IS 13779
149	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Influence of heating	Cl. No.: 12.7.5 & 6 of IS 13779



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150	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Influence of self heating	Cl. No.: 12.7.4 of IS 13779
151	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Influence of supply voltage	Cl. No.: 12.7.2 of IS 13779
152	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of influence quantities	Cl. No.: 12.11 of IS 13779
153	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Influence short-time overcurrents	Cl. No.: 12.7.3 of IS 13779
154	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Meter Constant	Cl. No.: 12.15 of IS 13779
155	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of no- load condition	Cl. No.: 12.13 of IS 13779
156	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of power consumption	Cl. No.: 12.7.1 of IS 13779
157	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of repeatability of error	Cl. No.: 12.17 of IS 13779
158	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of resistance to heat & fire	Cl. No.: 12.4 & 6 of IS 13779
159	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of starting condition	Cl. No.: 12.14 of IS 13779
160	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test on Limits of Error	Cl. No.: 11.1 & 7 of IS 13779



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161	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Vibration Test	Cl. No.: 12.3.2 of IS 13779
162	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Visual Inspection	Cl. No.: 7 of IS 13779
163	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Visual Inspection	Cl. No.: 7 of IS 13779 (AMD.5):
164	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Three Phase	Test of immunity to earth/ phase fault	Cl. No.: 12.8 of IS 13779
165	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Component	Damp Heat Test	IEC 60068-2-78
166	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Low Temperature	IEC 60068-2-1
167	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Bump Test(peak accl., max load 113 kg, No. of Bump 2-4 bump/sec)	"Withdrawn" JSS 55555 : 2000; JSS 55555 :
168	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Bump Test(peak accl., max load 113 kg, No. of Bump 2-4 bump/sec)	IEC 60068-2-27
169	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Bump Test(peak accl., max load 113 kg, No. of Bump 2-4 bump/sec)	TEC14016
170	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Change of Temperature	IEC 60068-2-14
171	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Change of temperature	IS 9000 Part 14
172	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Damp Heat Test	"Withdrawn" JSS 55555 : 2000; JSS 55555