



(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	VATION AND TESTING PRI COT IT PARK, SIRUSERI, K	/ATE LIMITED, 15/D-19, ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	1 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
		Ре	rmanent Facility		
1	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Reverse Phase Sequence	IS 13779, Cl. 12.11 : 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5 &1.0)	Test of Influence Quantities-Harmonics in Voltage and Current	CBIP 304, Cl. 5.6.2: 2008	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5 &1.0)	Test of Influence Quantities-Reverse Phase Sequence	CBIP 304, CI.5.6.2: 2008	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5 &1.0)	Test of Influence Quantities-Voltage Unbalance	CBIP 304, Cl. 5.6.2: 2008	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5 &1.0)	Test of Influence Quantities-Voltage variation	CBIP 304 CL.5.6.2: 2008	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5,1.0,1.5)	Test of Influence Quantities-Harmonics in Voltage and Current	CBIP 88, Cl. 5.6.2: 1996	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5,1.0,1.5)	Test of Influence Quantities-Reverse Phase Sequence	CBIP 88, Cl.5.6.2: 1996	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5,1.0,1.5)	Test of Influence Quantities-Voltage Unbalance	CBIP 88 CI5.6.2: 1996	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5,1.0,1.5)	Test of Influence Quantities-Voltage variation	CBIP 88 CL.5.6.2: 1996	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S & 0.5S)	Test of Influence Quantities-Harmonics in Voltage and Current	IEC 62053-22, Cl. 8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S & 0.5S)	Test of Influence Quantities-Reverse Phase Sequence	IEC 62053-22 , Cl. 8.2 : 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S & 0.5S)	Test of Influence Quantities-Voltage Unbalance	IEC 62053-22, Cl. 8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





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Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S & 0.5S)	Test of Influence Quantities-Voltage variation	IEC 62053-22, Cl. 8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S, 0.5S &1.0)	Test of Influence Quantities-Harmonics in Voltage and Current	CBIP 325, CI.5.6.2: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S, 0.5S &1.0)	Test of Influence Quantities-Reverse Phase Sequence	CBIP 325, Cl. 5.6.2: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S, 0.5S &1.0)	Test of Influence Quantities-Voltage Unbalance	CBIP 325, Cl. 5.6.2: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S, 0.5S &1.0)	Test of Influence Quantities-Voltage variation	CBIP 325 CL.5.6.2: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S,0.5S & 1S)	Test of Power Consumption	IS 14697 CL 12.7.1 : 2014	40V-380V, 1A-100A, 50Hz





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Validity	12/07/2019 to 11/07/2021	Last Amended on	-	

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.5,1 & 2)	Test of Influence Quantities-Harmonics in Voltage and Current	IS 13010, Cl.11.11: 2012	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.5,1 & 2)	Test of Influence Quantities-Reverse Phase Sequence	IS 13010, Cl. 11.11: 2012	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
21	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.5,1 & 2)	Test of Influence Quantities-Voltage variation	IS 13010 Cl.11.11: 2012	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
22	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.5S, 1.0S & 1.0)	Test of Influence Quantities-Harmonics in Voltage and Current	IEC 62053-24, Cl. 8.3: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
23	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.5S, 1.0S & 1.0)	Test of Influence Quantities-Voltage variation	IEC 62053-24, Cl.8.3: 2016	40V-380V, 0.02A to 120A, 0.5L to UPF, 45- 55Hz
24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2 )	Test of Influence Quantities-Harmonics in Voltage and Current	IEC 62053-21, Cl.8.2: 2016	40V-380V, 0.02A- 120A, 0.5 PF Lag to UPF, 45-65Hz





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Certificate Number	TC-8575	Page No. :	5 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2 )	Test of Influence Quantities-Reverse Phase Sequence	IEC 62053-21, Cl.8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Voltage Unbalance	IEC 62053-21, Cl. 8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Voltage variation	IEC 62053-21 Cl 8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Harmonics in Voltage and Current	IS 15884, Cl. 4.6.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Harmonics in Voltage and Current	IS 16444, Cl.6.12: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Harmonics in Voltage and Current	IS 13779, Cl. 12.11: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





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Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Reverse Phase Sequence	IS 16444, Cl. 6.12: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
32	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Reverse Phase Sequence	IS 15884, Cl. 4.6.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
33	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Voltage Unbalance	IS 15884 Cl.4.6.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
34	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Voltage Unbalance	IS 13779 Cl.12.11: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
35	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Voltage Unbalance	IS 16444 CI.6.12: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
36	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Voltage variation	IS 15884 Cl.4.6.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





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Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
37	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Voltage variation	IS 13779 Cl.12.11: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
38	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Power Consumption	IS 16444, Cl.6.10.1: 2015	40V-380V, 1A-100A, 50Hz
39	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Power Consumption	IS 13779, Cl.12.7.1: 2014	40V-380V, 1A-100A, 50Hz
40	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 2 & 3)	Test of Influence Quantities-Voltage variation	IEC 62053-23, Cl.8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
41	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	No Load Condition	IS 13779, Cl.12.13: 2014	Qualitative( 40V-380V, 50Hz, Functional Test)
42	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	AC High Voltage	CBIP 304, Cl.5.4.6.3: 2008	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)





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Validity	12/07/2019 to 11/07/2021	Last Amended on	-

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43	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	Insulation Resistance	CBIP 304, Cl. 5.4.6.4: 2008	1 M Ohm to 2000 M Ohm at 500 V DC
44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	Meter Constant	CBIP 304, CI.5.6.6: 2008	40V-380V, 1A-120A, UPF, 50Hz
45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	No Load Condition	CBIP 304, CI.5.6.4: 2008	Qualitative( 40V-380V, 50Hz, Functional Test)
46	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	Repeatability of Error	CBIP 304, CI.5.6.9: 2008	40V-380V, 0.01A- 120A, UPF, 50Hz
47	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	Starting Current	CBIP 304, Cl. 5.6.5: 2008	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
48	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	Start-up Test of Energy Meter	CBIP 304, Cl. 4.6.9.1: 2008	Qualitative( 40V-380V, Functional Test)





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49	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	Test of influence Quantities-Frequency variation	CBIP 304, Cl. 5.6.2: 2008	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
50	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	Test of Power Consumption	CBIP 304, CI.5.4.1: 2008	40V to 380V, 1A to 100A, UPF, 50Hz
51	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	Limits of error	CBIP 304, Cl. 5.6.8: 2008	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50 Hz, 0.075 to 136800 W/VAr
52	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	AC High Voltage	CBIP 88, Cl. 5.4.6.3: 1996	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
53	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	Insulation Resistance	CBIP 88, Cl. 5.4.6.4: 1996	1 M Ohm to 2000 M Ohm at 500 V DC
54	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	Meter constant	CBIP 88 , CI.5.6.6: 1996	40V-380V, 1A-120A, UPF, 50Hz





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55	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	No Load Condition	CBIP 88, CI.5.6.4: 1996	Qualitative( 40V-380V, 50Hz, Functional Test)
56	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	Starting Current	CBIP 88, Cl.5.6.5: 1996	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
57	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	Start-up Test of Energy Meter	CBIP 88, Cl.4.6.4.1: 1996	Qualitative( 40V-380V, Functional Test)
58	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	Test of influence Quantities-Frequency variation	CBIP 88, Cl.5.6.2: 1996	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
59	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	Test of Power Consumption	CBIP 88 Cl. 5.4.1: 1996	40V to 380V, 1A to 100A, UPF, 50Hz
60	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	Repeatability of Error	CBIP 88, Cl.5.6.9: 1996	40V-380V, 0.01A- 120A, UPF, 50Hz





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Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
61	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2,0.5,1.0,1.5)	Limits of error	CBIP 88, CL.5.6.8: 1996	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
62	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S & 0.5S)	AC High Voltage	IEC 62053-22, Cl.7.4: 2016	2kV-4kV, 45Hz-55Hz, 0.1 A Leakage current(Source 500 VA )
63	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S & 0.5S)	Limits of error	IEC 62053-22, Cl.8.1: 2016	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
64	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S & 0.5S)	Meter Constant	IEC 62053-22 , Cl.8.4: 2016	40V-380V, 1A-120A, UPF, 50Hz
65	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S & 0.5S)	No Load Condition	IEC 62053-22, Cl. 8.3: 2016	Qualitative( 40V-380V, 50Hz, Functional Test)
66	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S & 0.5S)	Starting Current	IEC 62053-22, Cl.8.3.3: 2016	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)





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Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	VATION AND TESTING PRI COT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	12 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
67	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S & 0.5S)	Start-up Test of Energy Meter	IEC 62053-22, Cl. 8.3.1: 2016	Qualitative( 40V-380V, Functional Test)
68	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S & 0.5S)	Test of influence Quantities-Frequency variation	IEC 62053-22, Cl. 8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
69	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S & 0.5S)	Test of Power Consumption	IEC 62053-22, Cl.7.1: 2016	40V to 380V, 1A to 100A, UPF, 50Hz
70	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	AC High Voltage	CBIP 325, Cl. 5.4.6.3: 2015	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
71	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	Insulation Resistance	CBIP 325, Cl. 5.4.6.4: 2015	1 M Ohm to 2000 M Ohm at 500 V DC
72	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	Limits of error	CBIP 325, CI.5.6.8: 2015	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	VATION AND TESTING PRI COT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	13 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
73	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	Meter Constant	CBIP 325 , Cl. 5.6.6: 2015	40V-380V, 1A-120A, UPF, 50Hz
74	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	No Load Condition	CBIP 325, CI.5.6.4: 2015	Qualitative( 40V-380V, 50 Hz, Functional Test)
75	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	Repeatability of Error	CBIP 325, Cl.5.6.9: 2015	40V-380V, 0.01A- 120A, UPF, 50Hz
76	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	Starting Current	CBIP 325, Cl.5.6.5: 2015	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
77	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	Start-up Test of Energy Meter	CBIP 325, Cl. 4.6.6.1: 2015	Qualitative( 40V-380V, Functional Test)
78	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	Test of influence Quantities-Frequency variation	CBIP 325, Cl. 5.6.2: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	14 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
79	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	Test of Power Consumption	CBIP 325, CI.5.4.1: 2015	40V to 380V, 1A to 100A, UPF, 50Hz
80	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	AC High Voltage	IS 14697 CL 12.7.6.3 : 2014	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
81	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Insulation Resistance	IS 14697, Cl.12.7.6.4 : 2014	1 M Ohm to 2000 M Ohm at 500 V DC
82	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Limits of Error	IS 14697 CL 11.1 : 2014	40V-380V, 0.01A to 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800 W/VAr
83	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Meter Constant	IS 14697 CL 12.14 : 2014	40V-380V, 1A-120A, UPF, 50Hz
84	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	No Load Condition	IS 14697 CL 12.12 : 2014	Qualitative( 40V-380V, 50Hz, Functional Test)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	15 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
85	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Repeatability of Error	IS 14697 CL 12.16: 2014	40V-380V, 0.01A- 120A, UPF, 50Hz
86	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Test of Influence Quantities-Harmonics in Voltage and Current	IS 14697 CL 12.10 : 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
87	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Test of Influence Quantities-Reverse Phase Sequence	IS 14697 CL 12.10 : 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
88	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Test of Influence Quantities-Voltage Unbalance	IS 14697 CL 12.10: 2014	40V-380V, 0.02A- 120A, 0.5PFLag toUPF, 45-65Hz
89	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Test of Influence Quantities-Voltage variation	IS 14697 CL 12.10: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
90	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Starting Current	IS 14697 CI 12.13: 2014	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	16 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
91	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Start-up test of Energy Meter	IS 14697 CL 11.4.1: 2014	Qualitative( 40V-380V, Functional Test)
92	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Test of influence Quantities-Frequency variation	IS 14697 CL 12.10: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45 -65Hz
93	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	AC High Voltage	IS 13010, Cl. 11.10.3: 2012	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
94	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	Insulation Resistance	IS 13010, Cl. 11.2: 2012	1 M Ohm to 2000 M Ohm at 500 V DC
95	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	Meter Constatnt	IS13010, Cl. 11.6: 2012	40V-380 V, 1A-120A, UPF, 50Hz
96	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	No Load Condition	IS 13010, Cl.11.3: 2012	Qualitative( 40V-380V, 50Hz, Functional Test)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	17 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
97	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	Repeatability of Error	IS 13010, Cl.11.19: 2012	40V-380V, 0.01A- 120A, UPF, 50Hz
98	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	Starting Current	IS 13010, Cl. 11.4: 2012	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
99	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	Test of influence Quantities-Frequency variation	IS 13010, Cl. 11.11: 2012	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
100	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	Test of Power Consumption	IS 13010, Cl.11.8: 2012	40V to 380V, 1A to 100A, UPF, 50Hz
101	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	Limits of Error	IS 13010 CL 11.5: 2012	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50 Hz, 0.075 to 136800 W/VAr
102	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S & 1.0)	AC High Voltage	IEC 62053-24, Cl. 7.5: 2016	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	VATION AND TESTING PRIV COT IT PARK, SIRUSERI, K	/ATE LIMITED, 15/D-19, ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	18 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
103	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S & 1.0)	Limits of error	IEC 62053-24, Cl.8.2: 2016	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
104	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S & 1.0)	Meter Constant	IEC 62053-24, Cl.8.5: 2016	40V-380V, 1A-120A, UPF, 50Hz
105	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S & 1.0)	No Load Condition	IEC 62053-24, Cl.8.4: 2016	Qualitative( 40V-380V, 50Hz, Functional Test)
106	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S & 1.0)	Starting Current	IEC 62053-24, Cl. 8.4.4: 2016	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
107	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S & 1.0)	Start-up Test of Energy Meter	IEC 62053-24, Cl.8.4.2: 2016	Qualitative( 40V-380V, Functional Test)
108	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S & 1.0)	Test of influence Quantities-Frequency variation	IEC 62053-24 Cl. 8.3: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	19 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
109	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S & 1.0)	Test of Power Consumption	IEC 62053-24, Cl.7.2: 2016	40V to 380V, 1A to 100A, UPF, 50Hz
110	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S,1.0,2.0)	Limits of error	IS 15707 Cl.12.3: 2016	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
111	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	AC High Voltage	IEC 62053-21, Cl.7.4: 2016	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
112	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2 )	Limits of error	IEC 62053-21, Cl.8.1: 2016	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
113	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2 )	Meter Constant	IEC 62053-21, Cl.8.4: 2016	40V-380V, 1A-120A, UPF, 50Hz
114	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	No Load Condition	IEC 62053-21, Cl.8.3: 2016	Qualitative( 40V-380V, 50Hz, Functional Test)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	20 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
115	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Starting Current	IEC 62053-21, Cl. 8.3.3: 2016	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
116	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Start-up Test of Energy Meter	IEC 62053-21, Cl.8.3.1 : 2016	Qualitative( 40V-380V, Functional Test)
117	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Test of influence Quantities-Frequency variation	IEC 62053-21, Cl.8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
118	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Test of Power Consumption	IEC 62053-21, Cl.7.1: 2016	40V to 380V, 1A to 100A, UPF, 50Hz
119	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	AC High Voltage	IS 16444, Cl. 6.10.6: 2015	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
120	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	AC High Voltage	IS 13779, Cl. 12.7.6.3: 2014	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, P	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	21 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
121	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	AC High Voltage	IS 15884, Cl. 5.4.6.3: 2016	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
122	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Insulation Resistance	IS 16444, Cl.6.10.6: 2015	1 M Ohm to 2000 M Ohm at 500 V DC
123	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Insulation Resistance	IS 15884, Cl. 5.4.6.4: 2016	1 M Ohm to 2000 M Ohm at 500 V DC
124	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Insulation Resistance	IS 13779, Cl. 12.7.6.4: 2014	1 M Ohm to 2000 M Ohm at 500 V DC
125	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Limits of error	IS15884, Cl. 4.6.1: 2016	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
126	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Limits of error	IS 13779 CL 11.1 : 2014	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50 Hz, 0.075 to 136800 W/VAr





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Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	22 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
127	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Limits of error	IS 16444,Cl.6.12: 2015	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
128	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Meter Constant	IS 13779, Cl. 12.15: 2014	40V-380V, 1A-120A, UPF, 50Hz
129	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Meter Constant	IS16444 CI.6.12: 2015	40V-380V, 1A-120A, UPF, 50Hz
130	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Meter Constatnt	IS15884, Cl. 5.6.5: 2016	40V-380V, 1A-120A, UPF, 50Hz
131	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	No Load Condition	IS 15884, CI.5.6.3: 2016	Qualitative( 40V-380V, 50Hz, Functional Test)
132	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	No Load Condition	IS 16444 Cl. 6.12: 2015	Qualitative( 40V-380V, 50Hz, Functional Test)





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Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	23 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
133	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Repeatability of Error	IS 13779,Cl.12.17: 2014	40V-380V, 0.01A- 120A, UPF, 50Hz
134	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Repeatability of Error	IS16444, Cl.6.12: 2015	40V-380V, 0.01A- 120A, UPF, 50Hz
135	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Repeatability of Error	IS 15884, CI.5.6.7: 2016	40V-380V, 0.01A- 120A, UPF, 50Hz
136	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Starting Current	IS16444, Cl.6.12: 2015	Qualitative( 40V - 380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
137	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Starting Current	IS15884,CI.5.6.4: 2016	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
138	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Starting Current	IS 13779, Cl.12.14: 2014	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	24 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
139	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Start-up Test of Energy Meter	IS 15884, CI.4.6.4.1: 2016	Qualitative( 40V-380V, Functional Test)
140	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Start-up Test of Energy Meter	IS 16444, CI.6.12: 2015	Qualitative( 40V-380V, Functional Test)
141	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Start-up Test of Energy Meter	IS 13779 , Cl.11.4.1: 2014	Qualitative( 40V-380V, Functional Test)
142	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Test of influence Quantities-Frequency variation	IS 13779, Cl. 12.11: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
143	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Test of influence Quantities-Frequency variation	IS 15884, Cl. 4.6.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
144	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Test of influence Quantities-Frequency variation	IS 16444, Cl.6.12: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	VATION AND TESTING PRI COT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	25 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
145	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Test of Influence Quantities-Voltage variation	IS 16444, CI.6.12: 2015	40V-380V,0.02A-120A, 0.5PFLag to UPF, 45- 65Hz
146	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Test of Power Consumption	IS 15884, CI.5.4.1: 2016	40V to 380V, 1A to 100A, UPF, 50Hz
147	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 2 & 3)	AC High Voltage	IEC 62053-23 cL.7.4: 2016	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
148	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 2 & 3)	Limits of error	IEC 62053-23, Cl.8.1: 2016	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
149	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 2 & 3)	Meter Constant	IEC 62053-23, Cl. 8.4: 2016	40V-380V, 1A-120A, UPF, 50Hz
150	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 2 & 3)	No Load Condition	IEC 62053-23, Cl.8.3: 2016	Qualitative( 40V-380V, 50Hz, Functional Test)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	VATION AND TESTING PRI COT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	26 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
151	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 2 & 3)	Starting Current	IEC 62053-23, Cl. 8.3.3: 2016	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
152	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 2 & 3)	Start-up Test of Energy Meter	IEC 62053-23 Cl. 8.3.1: 2016	Qualitative( 40V-380V, Functional Test)
153	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 2 & 3)	Test of influence Quantities-Frequency variation	IEC 62053-23, Cl. 8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
154	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 2 & 3)	Test of Power Consumption	IEC 62053-23,Cl.7.1: 2016	40V to 380V, 1A to 100A, UPF, 50Hz





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNOVATION AND TESTING PRIVATE LIMITED, 15/D-19, 3RD MAIN ROAD, OMR, SIPCOT IT PARK, SIRUSERI, KANCHIPURAM, CHENNAI, TAMIL NADU , INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	TC-8575	Page No. :	27 / 52	
Validity	12/07/2019 to 11/07/2021	Last Amended on	-	

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
		Sit	te Facility		
1	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5 &1.0)	Test of Influence Quantities-Reverse Phase Sequence	CBIP 304, CI.5.6.2: 2008	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5 &1.0)	Test of Influence Quantities-Voltage Unbalance	CBIP 304, Cl. 5.6.2: 2008	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5 &1.0)	Test of Influence Quantities-Voltage variation	CBIP 304, CI.5.6.2: 2008	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5 &1.0)	Test of Influence Quantities-Frequency variation	CBIP 304, CI.5.6.2: 2008	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5 &1.0)	Test of Influence Quantities-Harmonics in Voltage and Current Circuit	CBIP 304, CI.5.6.2: 2008	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5,1.0,1.5)	Test of Influence Quantities-Frequency variation	CBIP 88, Cl.5.6.2: 1996	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNOVATION AND TESTING PRIVATE LIMITED, 15/D-19, 3RD MAIN ROAD, OMR, SIPCOT IT PARK, SIRUSERI, KANCHIPURAM, CHENNAI, TAMIL NADU , INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	28 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5,1.0,1.5)	Test of Influence Quantities-Harmonics in Voltage and Current Circuit	CBIP 88 Cl. 5.6.2: 1996	40V-380V, 0.02A- 120A, 0.5PF Lag to UPF, 45-65Hz
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5,1.0,1.5)	Test of Influence Quantities-Reverse Phase Sequence	CBIP 88, Cl. 5.6.2: 1996	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5,1.0,1.5)	Test of Influence Quantities-Voltage Unbalance	CBIP 88, Cl. 5.6.2: 1996	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2, 0.5,1.0,1.5)	Test of Influence Quantities-Voltage variation	CBIP 88, Cl.5.6.2: 1996	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S & 0.5S)	Test of Influence Quantities-Frequency variation	IEC 62053-22,Cl.8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S & 0.5S)	Test of Influence Quantities-Harmonics in Voltage and Current Circuit	IEC 62053-22 Cl. 8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	29 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S & 0.5S)	Test of Influence Quantities-Reverse Phase Sequence	IEC 62053-22, Cl.8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S & 0.5S)	Test of Influence Quantities-Voltage Unbalance	IEC 62053-22, Cl. 8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S & 0.5S)	Test of Influence Quantities-Voltage variation	IEC 62053-22, Cl.8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S, 0.5S &1.0)	Test of Influence Quantities-Reverse Phase Sequence	CBIP 325, Cl.5.6.2: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S, 0.5S &1.0)	Test of Influence Quantities-Voltage Unbalance	CBIP 325, Cl. 5.6.2: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S, 0.5S &1.0)	Test of Influence Quantities-Voltage variation	CBIP 325, Cl.5.6.2: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	VATION AND TESTING PRI COT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	30 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S, 0.5S &1.0)	Test of Influence Quantities-Frequency variation	CBIP 325, CI.5.6.2: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S, 0.5S &1.0)	Test of Influence Quantities-Harmonics in Voltage and Current Circuit	CBIP 325, CI.5.6.2: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
21	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S,0.5S & 1S)	Limits of error	IS 14697 CL 11.1 : 2014	40V-380V, 0.01A- 120A, 0.25PF Lead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
22	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S,0.5S & 1S)	Test of Influence Quantities-Reverse Phase Sequence	IS 14697 CL 12.10: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
23	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S,0.5S & 1S)	Test of Influence Quantities-Voltage Unbalance	IS 14697, Cl. 12.10: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
24	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S,0.5S & 1S)	Test of Influence Quantities-Voltage variation	IS 14697 CL 12.10: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	31 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
25	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S,0.5S & 1S)	Test of Influence Quantities-Frequency variation	IS 14697 CI 12.10: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
26	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.2S,0.5S & 1S)	Test of Influence Quantities-Harmonics in Voltage and Current Circuit	IS 14697,Cl.12.10: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
27	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.5,1 & 2)	Test of Influence Quantities-Frequency variation	IS 13010, Cl.11.11: 2012	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
28	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.5,1 & 2)	Test of Influence Quantities-Harmonics in Voltage and Current Circuit	IS 13010,Cl.11.11: 2012	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
29	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.5,1 & 2)	Test of Influence Quantities-Reverse Phase Sequence	IS 13010, Cl.11.11: 2012	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
30	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.5,1 & 2)	Test of Influence Quantities-Voltage variation	IS 13010, Cl.11.11: 2012	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	VATION AND TESTING PRI COT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	32 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
31	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.5S, 1.0S & 1.0)	Test of Influence Quantities-Harmonics in Voltage and Current Circuit	IEC 62053-24, Cl. 8.3: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
32	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.5S, 1.0S & 1.0)	Test of Influence Quantities-Voltage variation	IEC 62053-24, Cl.8.3: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
33	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 0.5S, 1.0S & 1.0)	Test of Influence Quantities-Frequency variation	IEC 62053-24, Cl.8.3: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
34	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2 )	Test of Influence Quantities-Harmonics in Voltage and Current Circuit	IEC 62053-21 Cl.8,2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
35	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2 )	Test of Influence Quantities-Reverse Phase Sequence	IEC 62053-21, Cl.8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
36	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2 )	Test of Influence Quantities-Voltage Unbalance	IEC 62053-21, Cl. 8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





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Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	33 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
37	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Voltage variation	IEC 62053-21, Cl.8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
38	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Frequency variation	IEC 62053-21, Cl.8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
39	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Harmonics in Voltage and Current Circuit	IS 16444, Cl.6.12: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
40	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Harmonics in Voltage and Current Circuit	IS 13779, Cl.12.11: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
41	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Harmonics in Voltage and Current Circuit	IS 15884, Cl.4.6.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
42	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Reverse Phase Sequence	IS 16444, Cl.6.12: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, XANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	34 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
43	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Reverse Phase Sequence	IS 15884,Cl.4.6.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Reverse Phase Sequence	IS 13779, Cl.12.11: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Voltage Unbalance	IS 16444, Cl. 6.12: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
46	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Voltage Unbalance	IS 13779 Cl. 12.11: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
47	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Voltage variation	IS 15884, Cl.4.6.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
48	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Voltage variation	IS 13779, Cl.12.11: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	VATION AND TESTING PRI COT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	35 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
49	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Voltage variation	IS 16444, CI.6.12: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
50	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Frequency variation	IS 13779,Cl.12.11: 2014	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
51	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Frequency variation	IS 15884, Cl.4.6.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
52	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Frequency variation	IS 16444, Cl.6.12: 2015	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
53	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 1 & 2)	Test of Influence Quantities-Voltage Unbalance	IS 15884 Cl. 4.6.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
54	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 2 & 3)	Test of Influence Quantities-Voltage variation	IEC 62053-23, Cl.8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	36 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
55	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meter (Class 2 & 3)	Test of Influence Quantities-Frequency variation	IEC 62053-23, Cl. 8.2: 2016	40V-380V, 0.02A- 120A, 0.5PFLag to UPF, 45-65Hz
56	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	AC High Voltage	CBIP 304, Cl. 5.4.6.3: 2008	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
57	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	Insulation Resistance	CBIP 304 CI.5.4.6.4: 2008	1 M Ohm to 2000 M Ohm at 500 V DC
58	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	Limits of error	CBIP 304 Cl. 5.6.8: 2008	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
59	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	Meter Constant	CBIP 304, CI.5.6.6: 2008	40V-380V, 1A-120A, UPF, 50Hz
60	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	No Load Condition	CBIP 304, Cl.5.6.4: 2008	Qualitative( 40V-380V, 50Hz, Functional Test)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	37 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
61	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	Repeatability of Error	CBIP 304, CI.5.6.9: 2008	40V-380V, 0.01A- 120A, UPF, 50Hz
62	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	Starting Current	CBIP 304, Cl. 5.6.5: 2008	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
63	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	Start-up Test of Energy Meter	CBIP 304, Cl.4.6.9.1: 2008	Qualitative(40V-380V, Functional Test)
64	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5 &1.0)	Test of Power Consumption	CBIP 304, Cl.5.4.1: 2008	40V to 380V, 1A to 100A, UPF, 50Hz
65	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	AC High Voltage	CBIP 88,Cl. 5.4.6.3: 1996	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
66	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	Insulation Resistance	CBIP 88, Cl.5.4.6.4: 1996	1 M Ohm to 2000 M Ohm at 500 V DC





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	38 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
67	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	Limits of error	CBIP 88 Cl. 5.6.8: 1996	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
68	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	Meter Constant	CBIP 88, Cl.5.6.6: 1996	40V-380V, 1A-120A, UPF, 50Hz
69	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	Repeatability of Error	CBIP 88 Cl. 5.6.9: 1996	40V-380V, 0.01A- 120A, UPF, 50Hz
70	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	Start-up Test of Energy Meter	CBIP 88 Cl. 4.6.4.1: 1996	Qualitative( 40V-380V, Functional Test)
71	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	Test of Power Consumption	CBIP 88, Cl.5.4.1: 1996	40V to 380V, 1A to 100A, UPF, 50Hz
72	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2, 0.5,1.0,1.5)	Starting Current	CBIP 88, Cl. 5.6.5: 1996	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	39 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
73	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2,0.5,1.0 & 1.5)	No Load Condition	CBIP 88,CI.5.6.4: 1996	Qualitative( 40V-380V, 50Hz, Functional Test)
74	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S & 0.5S)	AC High Voltage	IEC 62053-22, Cl.7.4: 2016	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
75	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S & 0.5S)	Limits of error	IEC62053-22,Cl.8.1: 2016	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
76	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S & 0.5S)	Meter Constant	IEC 62053-22, Cl.8.4: 2016	40V-380V, 1A-120A, UPF, 50Hz
77	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S & 0.5S)	No Load Condition	IEC 62053-22,Cl.8.3: 2016	Qualitative( 40V-380V, 50Hz, Functional Test)
78	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S & 0.5S)	Starting Current	IEC 62053-22, Cl.8.3.3: 2016	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	40 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
79	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S & 0.5S)	Start-up Test of Energy Meter	IEC 62053-22, Cl.8.3.1: 2016	Qualitative( 40V-380V, Functional Test)
80	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S & 0.5S)	Test of Power Consumption	IEC 62053-22, Cl.7.1: 2016	40V to 380V, 1A to 100A, UPF, 50Hz
81	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	AC High Voltage	CBIP 325, Cl. 5.4.6.3: 2015	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
82	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	Insulation Resistance	CBIP 325, Cl. 5.4.6.4: 2015	1 M Ohm to 2000 M Ohm at 500 V DC
83	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	Limits of error	CBIP 325 CI.5.6.8: 2015	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
84	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	Meter Constant	CBIP 325, Cl.5.6.6: 2015	40V-380V, 1A-120A, UPF, 50Hz





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	41 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
85	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	No Load Condition	CBIP 325, Cl. 5.6.4: 2015	Qualitative( 40V-380V, 50Hz, Functional Test)
86	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	Repeatability of Error	CBIP 325 CI.5.6.9: 2015	40V-380V, 0.01A- 120A, UPF, 50Hz
87	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	Starting Current	CBIP 325 Cl. 5.6.5: 2015	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
88	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	Start-up Test of Energy Meter	CBIP 325, Cl.4.6.6.1: 2015	Qualitative( 40V-380V, Functional Test)
89	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S, 0.5S &1.0)	Test of Power Consumption	CBIP 325, CI.5.4.1: 2015	40V to 380V, 1A to 100A, UPF, 50Hz
90	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	AC High Voltage	IS 14697, Cl. 12.7.6.3: 2014	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	42 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
91	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Insulation Resistance	IS 14697, Cl.12.7.6.4: 2014	1 M Ohm to 2000 M Ohm at 500 V DC
92	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Meter Constant	IS 14697, Cl. 12.14: 2014	40V-380V, 1A-120A, UPF, 50Hz
93	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	No Load Condition	IS 14697, Cl.12.12: 2014	Qualitative( 40V-380V, 50Hz, Functional Test)
94	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Repeatability of Error	IS 14697, Cl.12.16: 2014	40V-380V, 0.01A- 120A, UPF, 50Hz
95	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Starting Current	IS 14697 CI 12.13: 2014	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
96	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Start-up Test of Energy Meter	IS 14697 CL 11.4.1: 2014	Qualitative( 40V-380V, Functional Test)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	43 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
97	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.2S,0.5S & 1S)	Test of Power Consumption	IS 14697 CL 12.7.1: 2014	40V to 380V, 1A to 100A, UPF, 50Hz
98	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	AC High Voltage	IS 13010,Cl.11.10.3: 2012	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
99	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	Insulation Resistance	IS 13010, Cl. 11.2: 2012	1 M Ohm to 2000 M Ohm at 500 V DC
100	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	Limits of error	IS 13010, Cl.11.5: 2012	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
101	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	Meter Constant	IS 13010, Cl.11.6: 2012	40V-380V, 1A-120A, UPF, 50Hz
102	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	No Load Condition	IS 13010, Cl.11.3: 2012	Qualitative( 40V-380V, 50Hz, Functional Test)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	VATION AND TESTING PRI COT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	44 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
103	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	Starting Current	IS 13010, Cl. 11.4: 2012	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
104	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	Repeatability of Error	IS 13010, Cl. 11.19: 2012	40V-380V, 0.01A- 120A, UPF, 50Hz
105	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5,1 & 2)	Test of Power Consumption	IS13010, Cl.11.8: 2012	40V to 380V, 1A to 100A, UPF, 50Hz
106	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S & 1.0)	AC High Voltage	IEC 62053-24,Cl.7.5: 2016	2kV - 4kV, 45Hz-55Hz, 0.1A Leakage current( Source 500VA)
107	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S & 1.0)	Limits of error	IEC 62053-24, Cl. 8.2: 2016	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
108	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S & 1.0)	Meter Constant	IEC 62053-24, Cl. 8.5: 2016	40V-380V, 1A-120A, UPF, 50Hz





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	VATION AND TESTING PRI COT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	45 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
109	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S & 1.0)	No Load Condition	IEC 62053-24 Cl.8.4: 2016	Qualitative( 40V-380V, 50Hz, Functional Test)
110	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S & 1.0)	Start-up Test of Energy Meter	IEC 62053-24, Cl.8.4.2: 2016	Qualitative( 40V-380V, Functional Test)
111	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S & 1.0)	Test of Power Consumption	IEC 62053-24,CL.7.2: 2016	40V to 380V, 1A to 100A, UPF, 50Hz
112	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S & 1.0)	Starting Current	IEC 62053-24, Cl. 8.4.4: 2016	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
113	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 0.5S, 1.0S,1.0,2.0)	Limits of error	IS 15707, Cl. 12.3: 2016	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
114	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Limits of error	IEC 62053-21, Cl. 8.1: 2016	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	VATION AND TESTING PRI COT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	46 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
115	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Meter Constant	IEC 62053-21, Cl.8.4: 2016	40V-380V, 1A-120A, UPF, 50Hz
116	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	No Load Condition	IEC 62053-21,Cl.8.3: 2016	Qualitative( 40V-380V, 50Hz, Functional Test)
117	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Starting Current	IEC 62053-21, Cl. 8.3.3: 2016	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
118	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Start-up Test of Energy Meter	IEC 62053-21, Cl.8.3.1: 2016	Qualitative( 40V-380V, Functional Test)
119	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Test of Power Consumption	IEC 62053-21, Cl.7.1: 2016	40V to 380V, 1A to 100A, UPF, 50Hz
120	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	AC High Voltage	IS 16444,Cl.6.10.6: 2015	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	47 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
121	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	AC High Voltage	IS 15884, Cl.5.4.6.3: 2016	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
122	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Insulation Resistance	IS 15884, Cl. 5.4.6.4: 2016	1 M Ohm to 2000 M Ohm at 500 V DC
123	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Insulation Resistance	IS 16444, Cl. 6.10.6: 2015	1 M Ohm to 2000 M Ohm at 500 V DC
124	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Insulation Resistance	IS 13779, Cl. 12.7.6.4: 2014	1 M Ohm to 2000 M Ohm at 500 V DC
125	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Limits of error	IS 16444, CI.6.12: 2015	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
126	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Limits of error	IS 15884 , Cl. 4.6.1: 2016	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	VATION AND TESTING PRI COT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	48 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
127	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Limits of error	IS 13779,Cl. 11.1: 2014	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz,0.075 to 136800W/VAr
128	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Meter Constant	IS 15884, CI.5.6.5: 2016	40V-380V, 1A-120A, UPF, 50Hz
129	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Meter Constant	IS 13779, Cl. 12.15: 2014	40V-380V, 1A-120A, UPF, 50Hz
130	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Meter Constant	IS 16444, Cl.6.12: 2015	40V-380V, 1A-120A, UPF, 50Hz
131	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	No Load Condition	IS 13779, Cl. 12.13: 2014	Qualitative( 40V-380V, 50Hz, Functional Test)
132	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	No Load Condition	IS 16444,Cl. 6.12: 2015	Qualitative( 40V-380V, 50Hz, Functional Test)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	49 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
133	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Repeatability of Error	IS 16444, Cl.6.12: 2015	40V-380V, 0.01A- 120A, UPF, 50Hz
134	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Repeatability of Error	IS 13779, CI.12.17: 2014	40V-380V, 0.01A- 120A, UPF, 50Hz
135	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Repeatability of Error	IS 15884, Cl.5.6.7: 2016	40V-380V, 0.01A- 120A, UPF, 50Hz
136	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Starting Current	IS 16444, Cl. 6.12: 2015	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
137	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Starting Current	IS 15884, Cl. 5.6.4: 2016	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
138	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Start-up Test of Energy Meter	IS 15884, Cl.4.6.4.1: 2016	Qualitative( 40V-380V, Functional Test)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	50 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
139	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Start-up Test of Energy Meter	IS 13779, Cl.11.4.1: 2014	Qualitative( 40V-380V, Functional Test)
140	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Test of Power Consumption	IS 15884, Cl.5.4.1: 2016	40V to 380V, 1A to 100A, UPF, 50Hz
141	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Test of Power Consumption	IS 13779, Cl.12.7.1: 2014	40V to 380V, 1A to 100A, UPF, 50Hz
142	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Test of Power Consumption	IS 16444, Cl.6.10.1: 2015	40V to 380V, 1A to 100A, UPF, 50Hz
143	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	AC High Voltage	IS 13779,Cl. 12.7.6.3: 2014	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
144	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	No Load Condition	IS 15884, Cl. 5.6.3: 2016	Qualitative( 40V-380V, 50Hz, Functional Test)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	51 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
145	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Starting Current	IS 13779, Cl.12.14: 2014	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
146	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 1 & 2)	Start-up Test of Energy Meter	IS 16444, Cl.6.12: 2015	Qualitative( 40V-380V, Functional Test)
147	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 2 & 3)	AC High Voltage	IEC 62053-23, Cl. 7.4: 2016	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)
148	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 2 & 3)	Limits of error	IEC 62053-23 Cl.8.1: 2016	40V-380V, 0.01A- 120A, 0.25PFLead/Lag to UPF, 50Hz, 0.075 to 136800W/VAr
149	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 2 & 3)	Meter Constant	IEC 62053-23, Cl. 8.4: 2016	40V-380V, 1A-120A, UPF, 50Hz
150	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 2 & 3)	No Load Condition	IEC 62053-23,Cl. 8.3: 2016	Qualitative( 40V-380V, 50Hz, Functional Test)





(A Constituent Board of Quality Council of India)



Laboratory Name	SANDS CENTRE FOR INNO 3RD MAIN ROAD, OMR, SIF TAMIL NADU , INDIA	DVATION AND TESTING PRI PCOT IT PARK, SIRUSERI, K	VATE LIMITED, 15/D-19, (ANCHIPURAM, CHENNAI,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8575	Page No. :	52 / 52
Validity	12/07/2019 to 11/07/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
151	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 2 & 3)	Starting Current	IEC 62053-23, Cl. 8.3.3: 2016	Qualitative( 40V-380V, 0.001A to 120A, UPF, 50Hz, Functional Test)
152	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 2 & 3)	Start-up Test of Energy Meter	IEC 62053-23, Cl.8.3.1: 2016	Qualitative( 40V-380V, Functional Test)
153	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters (Class 2 & 3)	Test of Power Consumption	IEC 62053-23, Cl.7.1: 2016	40V to 380V, 1A to 100A, UPF, 50Hz
154	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical (Electromechanical) and Electronic (Static) Energy meters(Class 1 & 2)	AC High Voltage	IEC 62053-21, Cl.7.4: 2016	2kV-4kV, 45Hz-55Hz, 0.1A Leakage current(Source 500VA)