



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name MSEDCL TESTING AND QUALITY ASSURANCE LABORATORY THANE, PLOT NO. AM-8, SUBSTATION NO.2, ROAD NO. 16 A, AMBIKA NAGAR, WAGLE ESTATE, THANE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5131 Page No. : 1 / 3

Validity 01/02/2019 to 31/01/2021 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
<b>Permanent Facility</b>					
1	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters class 1&2 and Static (CT) Transformer Operated Watthour Meters of Class 0.2s,0.5s,1.	Tamper TestFor 3 PhaseChange of Phase Sequence, influence of Permanent Magnetic AC/DC/Electromagnet/ Permanent Magnet,Missing Potential,Potential Unblance,Current Unblance,Current Reversal,Current Missing/Open,Low Power Factor,Meter Cover Open,Current Bypass(short),Over Current,Over Voltage,Power Failure.For 1 Phase Reversal of Phase & Neutral, Reversal of Line & load terminals,Load through local earth,Neutral disconnected from load side or supply side or both load side and supply side, Im	MSDCL SPECIFICATIONS: 2011	Qualitative



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2	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters class 1&2 and Static (CT) Transformer Operated Watthour Meters of Class 0.2s,0.5s,1.0	AC Voltage Test	IS 13779 (Cl. No. 12.7.6.3) IS 14697 (Cl. No. 12.7.6.3): 1999	Qualitative(1 kV to 5 kV)
3	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters class 1&2 and Static (CT) Transformer Operated Watthour Meters of Class 0.2s,0.5s,1.0	Insulation Test	IS 13779 (Cl. No. 12.7.6.4) IS 14697 (Cl. No. 12.7.6.4): 1999	Qualitative(Test Voltage 500±50V upto 2G Ohm)
4	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters class 1&2 and Static (CT) Transformer Operated Watthour Meters of Class 0.2s,0.5s,1.0	Limits of Error	IS 13779 (Cl. No. 11.1 & 11.2) IS 14697 (Cl. No. 11.1 & 11.2): 1999	30V to 300V 10mA to 120A 0.2lag to UPF to 0.2 Lead Active & Reactive 50 Hz
5	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters class 1&2 and Static (CT) Transformer Operated Watthour Meters of Class 0.2s,0.5s,1.0	Meter constant/ Registration	IS 13779 (Cl. No. 11.6, 12.15 ) IS 14697 (Cl. No. 11.6, 12.14 ): 1999	Qualitative(30V to 300V 10mA to 120A 0.2lag to UPF to 0.2 Lead Active & Reactive 50 Hz)
6	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters class 1&2 and Static (CT) Transformer Operated Watthour Meters of Class 0.2s,0.5s,1.0	No Load Test	IS 13779 (Cl. No. 12.13, 11.4) IS 14697 (Cl. No. 12.12, 11.4): 1999	Qualitative(30V to 300V 50Hz)



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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-ELECTICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters class 1&2 and Static (CT) Transformer Operated Watthour Meters of Class 0.2s,0.5s,1.0	Power Consumption Test (Current Circuit)	IS 13779 (Cl. No. 12.7.1, 9.1.2 ) IS 14697 (Cl. No. 12.7.1, 9.1.2 ): 1999	Qualitative(0.0635 VA - 3.175 VA (63.5 V) 0.24 - 12 VA (240 V))
8	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters class 1&2 and Static (CT) Transformer Operated Watthour Meters of Class 0.2s,0.5s,1.0	Power Consumption Test (Voltage Circuit)	IS 13779 (Cl. No. 12.7.1, 9.1.1 ) IS 14697 (Cl. No. 12.7.1, 9.1.1 ): 1999	Qualitative(0.0635 VA to 3.175 VA & 0.0635 W to 3.175 W @ 63.5 V 0.24 VA to 12 VA & 0.24 W to 12 W @ 240 V)
9	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters class 1&2 and Static (CT) Transformer Operated Watthour Meters of Class 0.2s,0.5s,1.0	Repeatability Of Error	IS 13779 (Cl. No. 12.17) IS 14697 (Cl. No. 12.16): 1999	Qualitative(30V to 300V 10mA to 120A 0.2lag to UPF to 0.2 Lead Active & Reactive 50 Hz)
10	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters class 1&2 and Static (CT) Transformer Operated Watthour Meters of Class 0.2s,0.5s,1.0	Starting Current Test	IS 13779 (Cl. No. 12.14, 11.5) IS 14697 (Cl. No. 12.13, 11.5): 1999	Qualitative(30V to 300V 10mA to 120A 0.2lag to UPF to 0.2 Lead Active & Reactive 50 Hz)