



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 1 / 71

Validity 27/01/2019 to 26/01/2021 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
Permanent Facility					
1	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Meter Constant	IS 13779 (Cl. 12.15, 11.6), IS 14697(Cl. 12.14, 11.6): 2004	Qualitative(Up to 560V LN, 10mA to 120A, 45Hz to 65Hz P.F.: +1 to -1 1ph, 2W 3ph, 3W 3ph, 4W)
2	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Response time	EN/IEC 60688 ed.3 (Cl. 5.6): 2012	Qualitative(5 ns to 100us)
3	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Variation due to common mode interference	IEC/EN 60688 (Cl. 6.16): 2012	Electrical parameter AC Voltage: 0.5-560 V, DC Voltage: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 2 / 71

Validity 27/01/2019 to 26/01/2021 Last Amended on -

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4	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control.	Electromagnetic compatibility	EN/IEC 60688 ed.3 Cl. 6.22: 2012	Qualitative
5	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Self Heating Due to Measured Quantity	IS 13875 Part (2) (Cl. 3.16), IS 13875 Part(3) (Cl. 3.11): 2014	AC Voltage 1 mV to 1000V (frequency 10 Hz to 10 kHz)
6	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Series mode Interference Voltage rejection	IS 13875 Part (2)(Cl. 3.11.1): 2014	Qualitative
7	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Immunity to Earth Fault / abnormal voltage condition	IS 13779 (Cl. 12.8) IS 14697(Cl. 12.17): 2004	Qualitative(Up to 560V LN, Up to 120A,)



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 3 / 71

Validity 27/01/2019 to 26/01/2021 Last Amended on -

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8	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Influence of Self Heating	IS 13779 (Cl.12.7.4) IS 14697(Cl. 12.7.4): 2004	Qualitative(Up to 560V LN, 10mA to 120A, 45Hz to 65Hz P.F.: +1 to -1 1ph, 2W 3ph, 3W 3ph, 4W)
9	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Influence of Self Heating	IEC/EN 62052-11, IEC/EN 62053-21,22,23 (Cl. 7.3): 2016	Qualitative(Up to 560V LN, 10mA to 120A, 45Hz to 65Hz P.F.: +1 to -1 1ph, 2W 3ph, 3W 3ph, 4W)
10	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Interpretation of Test Results and Adjustments	IS 13779 (Cl. 12.16,) IS 14697(Cl. 12.15): 2004	Qualitative



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 4 / 71

Validity 27/01/2019 to 26/01/2021 Last Amended on -

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11	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Limits of error test	IS 13779 (Cl. 11.1), IS 14697)(Cl. 11.1): 2004	Qualitative(Up to 560V LN, 10mA to 120A, 45Hz to 65Hz ,P.F.: +1 to -1 1ph, 2W , 3ph, 3W 3ph, 4W)
12	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	No load Condition	IS 13779 (Cl. 12.13), IS 14697 (Cl. 12.12): 2004	Qualitative(Up to 560V LN, 10mA to 120A, 45Hz to 65Hz P.F.: +1 to -1 1ph, 2W 3ph, 3W 3ph, 4W)
13	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	No load Condition	IEC/EN 62052-11,IEC/EN 62053-21,22,23 (Cl 8.3): 2016	Qualitative(Up to 560V LN, 10mA to 120A, 45Hz to 65Hz P.F.: +1 to -1 1ph, 2W 3ph, 3W 3ph, 4W)



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 5 / 71

Validity 27/01/2019 to 26/01/2021 Last Amended on -

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14	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Starting Conditions	IS 13779 (Cl. 12.14), IS 14697 (Cl. 12.13): 2004	Qualitative(Up to 560V LN, 10mA to 120A, 45Hz to 65Hz P.F.: +1 to -1 1ph, 2W 3ph, 3W 3ph, 4W)
15	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Test of influence quantities-Voltage variation-Frequency Variation-Reverse phase sequence-Voltage unbalance-Auxiliary Voltage-Wave form: 10% of 3rd harmonics in current circuit. °-Harmonics Component in current and voltage circuit-Sub harmonics in a.c. current circuit-Odd harmonics in AC current circuit-Operation of accessories-Magnetic induction of external origin – 400AT	IS 13779 (Cl.12.11), IS 14697 (Cl. 12.10): 2004	Qualitative(Up to 560V LN, 10mA to 120A, 45Hz to 65Hz P.F.: +1 to -1 1ph, 2W 3ph, 3W 3ph, 4W 400AT, 0.5mT)



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 6 / 71

Validity 27/01/2019 to 26/01/2021 Last Amended on -

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16	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers	Vibration test(Sine)	IEC 60068-2-6: 2007	Qualitative(Freq. 5 Hz to 5000Hz, Amplitude: ± 20 mmCapacity:125 kgf)
17	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers	Vibration test(Sine)	IEC/EN 60688 ed.3 Cl. 6.22, : 2012	Qualitative(Freq. 5 Hz to 5000 Hz, Amplitude: ± 20 mm(p-p)Capacity:125 kgf)



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 7 / 71

Validity 27/01/2019 to 26/01/2021 Last Amended on -

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18	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic Equipments/Digital Multifunction Measuring instruments for measurement and control	AC Voltage Test	IEC/EN 62052-11 (Cl. 7.3.3), IEC/EN 62053-21,22,23 (Cl 7.4) : 2016	Qualitative(Up to 5kV)
19	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic Equipments/Digital Multifunction Measuring instruments for measurement and control	AC Voltage test.	IS 13779 (Cl. 12.7.6.3), IS 14697(Cl. 12.7.6.3): 2004	Qualitative(Up to 5kV)
20	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic Equipments/Digital Multifunction Measuring instruments for measurement and control	Limits of Errors	IEC/EN 62052-11, IEC 62053-21,22,23(Cl 8.1): 2016	Qualitative(Up to 560V LN, 10mA to 120A, 45Hz to 65Hz P.F.: +1 to -1 1ph, 2W 3ph, 3W 3ph, 4W)



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Certificate Number TC-8316 Page No. : 8 / 71

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21	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multi function Measuring instruments for measurement and control	Variation due to the continuous operation	IEC/EN 60688 (Cl. 6.15): 2012	Electrical parameter 3 Phase AC Voltage: 0.5-560 V, DC Voltage/ AC single phase: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C
22	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multi function Measuring instruments for measurement and control	Variation due to the continuous operation	IEC/EN 60688 (Cl. 6.15): 2012	Electrical parameter AC Voltage: 0.5-560 V, DC Voltage: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C



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Certificate Number TC-8316 Page No. : 9 / 71

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23	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and contro	Variation due to the frequency of the input quantity	IEC/EN 60688: (Cl. 6.5): 2012	Frequency range : 40 Hz to 500 Hz Electrical input parameter Range AC 3 phase Voltage: 0.5-560 V, AC/DC 1 phase Voltage: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C
24	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and contro	Variation due to the frequency of the input quantity	IEC/EN 60688: (Cl. 6.5): 2012	Frequency range : 40 Hz to 500 Hz Electrical input parameter Range AC 3 phase Voltage: 0.5-560 V, AC/DC 1 phase Voltage: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C



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Certificate Number TC-8316 Page No. : 10 / 71

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25	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Variation due to the magnetic field of external origin	IEC/EN 60688 (Cl. 6.11): 2012	magnetic field : 400AT AC / DC . Electrical parameter Range AC Voltage: 0.5-560 V, DC Voltage: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C
26	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	- Variation due to the magnetic field of external origin	IEC/EN 60688 (Cl. 6.11): 2012	magnetic field : 400AT AC / DC .Electrical parameter Range 3 phase AC Voltage: 0.5-560 V, DC Voltage/ AC single phase: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 11 / 71

Validity 27/01/2019 to 26/01/2021 Last Amended on -

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27	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Variation due to the unbalanced currents	IEC/EN 60688 (Cl. 6.12: 2012	Electrical Input parameter range Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C
28	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Excessive inputs of short duration	IEC/EN 60688 Cl. 6.17.7: 2012	Qualitative(Three Phase source Up to 50-560VL-N, 0.5-120 Amp,(0 to 360°)DC/ AC single phase upto 1000V. DC current upto 10A)
29	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Over range of Measurand	IEC/EN 60688 (Cl. 5.7): 2012	Qualitative(Three Phase source Up to 50-560V L-N, 0.5-120 Amp,(0 to 360°)DC/ AC single phase upto 1000V)
30	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Permissible excessive inputs	IEC/EN 60688 (Cl. 6.17.5): 2012	Qualitative(Three Phase source Up to 50-560V, 0.5-120 Amp,(0 to 360°)DC/AC single phase upto 1000V. DC current upto 10 A.)



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 12 / 71

Validity 27/01/2019 to 26/01/2021 Last Amended on -

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31	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Test for Limits of Intrinsic Error	EN/IEC 60688 ed.3 (Cl. 4.4): 2012	Electrical parameter Input AC Voltage: 0.5-560 V, DC Voltage: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C
32	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Test for Limits of Intrinsic Error	EN/IEC 60688 ed.3 (Cl. 4.4): 2012	Electrical parameter Input 3 phase AC Voltage: 0.5-560 V, DC Voltage/ AC single phase : 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 13 / 71

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33	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Variation due to Auxiliary Supply Voltage	IEC/EN 60688 (Cl. 6.2):: 2012	Aux supply range 20-500 VAC, 20-600 VDC Electrical parameter AC Voltage: 0.5-560 V, DC Voltage: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C
34	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Variation due to common mode interference	IEC/EN 60688 (Cl. 6.16: 2012	Electrical parameter 3 phase AC Voltage: 0.5-560 V, DC Voltage/AC single phase : 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C



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Certificate Number TC-8316 Page No. : 14 / 71

Validity 27/01/2019 to 26/01/2021 Last Amended on -

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35	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Variation due to series mode interference.	IEC/EN 60688 (Cl. 6.17): 2012	Electrical parameter 3 phase AC Voltage: 0.5-560 V, DC Voltage/ AC single phase : 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C
36	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Variation due to the distortion of the input quantity	IEC/EN 60688 (Cl. 6.10): 2012	Distortion 10% to 100% in voltage and current Electrical parameter: 3 phase AC Voltage: 0-560 V, DC Voltage/single phase AC: 0-1000 V, AC Current: 0-120A, DC Current: 0-10A Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1, (0 to 360°) distortion 10% to 100% in voltage and current



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 15 / 71

Validity 27/01/2019 to 26/01/2021 Last Amended on -

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37	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Variation due to the frequency of the input quantity	IEC/EN 60688: (Cl. 6.5): 2012	Frequency range : 40 Hz to 500 Hz Electrical input parameter Range AC Voltage: 0.5-560 V, DC Voltage: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C
38	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Variation due to the input Voltage	IEC/EN 60688 (Cl. 6.6): 2012	Qualitative(Three Phase source Up to 50-560V, 0.5-120 Amp,(0 to 360°) Single phase up to 1000V AC/DC)
39	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Variation due to the interaction between measuring elements	IEC/EN 60688 (Cl. 6.13): 2012	Power range: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 16 / 71

Validity 27/01/2019 to 26/01/2021 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
40	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Variation due to the output load	IEC/EN 60688 (Cl. 6.9): 2012	Output load range: 0 Ohm to 100 Mohm Electrical parameter AC Voltage: 0.5-560 V, DC Voltage: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C
41	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Variation due to the power factor	IEC/EN 60688 (Cl. 6.8): 2012	Input parameter Power range: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 17 / 71

Validity 27/01/2019 to 26/01/2021 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
42	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Variation due to the self heating	IEC/EN 60688 (Cl. 6.14): 2012	Electrical parameter Input Range AC Voltage: 0.5-560 V, DC Voltage: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C
43	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Variation due to the unbalanced currents	IEC/EN 60688 (Cl. 6.12): 2012	Electrical Input parameter range Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C
44	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Verification of Marking	EN/IEC 60688 ed.3 (Cl. 7.1 to 7.4): 2012	Qualitative



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 18 / 71

Validity 27/01/2019 to 26/01/2021 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
45	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Voltage Test , Insulation Test	IEC/EN 60688 (Cl. 6.18): 2012	Qualitative(up to 5 kV)
46	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control.	Ripple content of output	IEC/EN 60688 (Cl. 5.5: 2012	20mV to 5V
47	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control.	Sealing verification	IEC/EN 60688 Cl no. 5.12: 2012	Qualitative
48	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control.	Continuous excessive inputs	IEC/EN 60688 (Cl. 6.17.6): 2012	Qualitative(Three Phase source Up to 50-560V, 0.5-120 Amp,(0 to 360°). Single phase upto 1000V AC/ DC. DC current upto 10 A.)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 19 / 71

Validity 27/01/2019 to 26/01/2021 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
49	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control.	Limiting value of output	IEC/EN 60688 (Cl. 5.8): 2012	Qualitative(Three Phase source Up to 50-560V L-N, 0.5-120 Amp,(0 to 360°)DC/AC single phase upto 1000VOutput range : AC/ DC upto 1000VAC/ DC upto 10A)
50	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control.	Variation due to Auxiliary Supply Frequency	IEC/EN 60688 (Cl. 6.3): 2012	Aux frequency range: 40-400 Hz Electrical parameter AC Voltage: 0.5-560 V, DC Voltage: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 20 / 71

Validity 27/01/2019 to 26/01/2021 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
51	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control.	Variation due to Auxiliary Supply Frequency	IEC/EN 60688 (Cl. 6.3): 2012	Aux frequency range: 40-400 Hz Electrical parameter 3 phase AC Voltage: 0.5-560 V, DC/AC 1 phase. Voltage: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C
52	ELECTRICAL- ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control.	Variation due to Auxiliary Supply Frequency	IEC/EN 60688 (Cl. 6.3): 2012	Aux frequency range: 40-400 Hz Electrical parameter AC Voltage: 0.5-560 V, DC Voltage: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 21 / 71

Validity 27/01/2019 to 26/01/2021 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
53	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control	-Variation due to the output load	IEC/EN 60688 (Cl. 6.9): 2012	Output load range: 0 Ohm to 1 MohmElectrical parameter 3 phase AC Voltage: 0.5-560 V, DC Voltage/ AC single phase: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C
54	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control.	Environmental Condition	IEC/EN 60688: 2012	Qualitative(Environment chamber (-40°C to +150°C and 20 % to 98%RH))



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 22 / 71

Validity 27/01/2019 to 26/01/2021 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
55	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control.	Variation due to Ambient Temperature	IEC/EN 60688 (Cl. 6.4): 2012	Temperature range (-40° to +150°C) Electrical parameter Range 3 phase AC Voltage: 0.5-560 V, AC/DC Voltage: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C
56	ELECTRICAL-ELECTICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control.	Variation due to Auxiliary Supply Voltage	IEC/EN 60688 (Cl. 6.2): 2012	Aux supply range 20-500 VAC, 20-600 DC Electrical parameters 3 phase, AC Voltage: 0.5-560 V, DC/AC 1 phase, Voltage: 0.1mV-1000 V, AC Current: 1mA-120A, DC Current: 0.1mA-10A, Frequency: 40-500 Hz, Power factor : -1 to +1, Power: Up to 560V LN, 1mA to 120A, 40 Hz to 500 Hz P.F.: +1 to -1 Phase Angle: 0°C to 360°C



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 23 / 71

Validity 27/01/2019 to 26/01/2021 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
57	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Overload	IS 13875 Part(2) (Cl. 3.15), IS 13875 Part (3)(Cl. 3.10: 2014	Qualitative(UP TO 1000V AC/DC, 0-10 A AC/DC ,0-360°)
58	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Common Mode Rejection	IS 13875 Part (2)(Cl 3.11.2): 2014	Qualitative(0-1000V AC/DC,0-120A AC, 0-10 A DC 0-360°)
59	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	-Frequency Influence error in the case of ac voltage measurement	IS 13875 Part(1), (Cl. 4.2.2) IS 13875 Part(2) (Cl. 3.13): 2014	Qualitative(1mV-1000VAC, 10 Hz to 10 kHz,40 mA to 120A,)
60	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from a change in Position	IS 13875 Part(1) (Cl. 4.6), IS 13875 Part(2,3) (Cl. 3.6): 2014	Qualitative(:50V-560V, 500mA-120A,0-360°, 45 to 65 Hz)
61	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from change in Ambient Temperature	IS 13875 Part(1) (Cl. 4.4) , IS 13875 Part(2,3)(Cl. 3.4): 2014	Qualitative(Temp - 40°Cto +150°C ACvoltage Range :1mV-1000 V AC (40 Hz-100 kHz))
62	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from change in Ambient Temperature	IS 13875 Part(1) (Cl. 4.4) , IS 13875 Part(2,3)(Cl. 3.4): 2014	Qualitative(Temp - 40°Cto +150°C AC current: 0.01 mA to 10 A (40Hz to 100 kHz))



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 24 / 71

Validity 27/01/2019 to 26/01/2021 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
63	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from change in Ambient Temperature	IS 13875 Part(1) (Cl. 4.4) , IS 13875 Part(2,3)(Cl. 3.4): 2014	Qualitative(Temp - 40°Cto+150°C Capacitancerange (0.33nf -1.1 mF))
64	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from change in Ambient Temperature	IS 13875 Part(1) (Cl. 4.4) , IS 13875 Part(2,3)(Cl. 3.4): 2014	Qualitative(Temp - 40°Cto +150°CResistancerange : 0.1 ohm to 330 MOhm)
65	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from change in Ambient Temperature	IS 13875 Part(1) (Cl. 4.4) , IS 13875 Part(2,3)(Cl. 3.4): 2014	Qualitative(Temp - 40°Cto +150°C DCCurrent : 0.1 mA to 10A)
66	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from change in Ambient Temperature	IS 13875 Part(1) (Cl. 4.5), IS 13875 Part(2,3) (Cl. 3.5): 2014	Qualitative(RH: 20% to95%Referencetemperature range 20to 45 ±1°CCurrent range : 10uAto 10A AC, 40Hz to100kHz)
67	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from change in Ambient Temperature	IS 13875 Part(1) (Cl. 4.5), IS 13875 Part(2,3) (Cl. 3.5): 2014	Temp -40°Cto +150°CFrequency 1 Hz to 2MHz (1mV to 500VAC)
68	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from change in Relative Air Humidity	IS 13875 Part(1) (Cl. 4.5), IS 13875 Part(2,3) (Cl. 3.5): 2014	Qualitative(RH 20 to95%, Referencetemperature 20 to45°C AC Voltage : 1mV to 1000V (40 Hz- 100 kHz))



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 25 / 71

Validity 27/01/2019 to 26/01/2021 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
69	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from change in Relative Air Humidity	IS 13875 Part(1) (Cl. 4.5), IS 13875 Part(2,3) (Cl. 3.5): 2014	Qualitative(RH: 20% to95%, TemperatureRange 20 to45°C Resistance :0.1ohm to 330 Mohm)
70	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from change in Relative Air Humidity	IS 13875 Part(1) (Cl. 4.5), IS 13875 Part(2,3) (Cl. 3.5): 2014	Qualitative(RH 20 to95%, Referencetemperature 20 to45°C DC Voltage :0.1 mV to 1000V)
71	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from change in Relative Air Humidity	IS 13875 Part(1) (Cl. 4.5), IS 13875 Part(2,3) (Cl. 3.5): 2014	RH: 20% to95% Referencetemperature range 20to 45 ±1°C Current range : up to 10A AC, 40Hz to100kHz
72	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from change in Relative Air Humidity	IS 13875 Part(1) (Cl. 4.5), IS 13875 Part(2,3) (Cl. 3.5): 2014	Qualitative(RH: 20% to95%, TemperatureRange 20 to 45°C Frequency 1 Hz to 2 MHz (1mV to 500VAC))
73	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from Supply Voltage	IS 13875 Part(1,2,3)(Cl. 4.8), IS 13875 Part(2,3) (Cl. 3.8):: 2014	Qualitative(Supply Voltagerange (20-500) V AC,20-600 VDC MeasuredDCVoltage Range (0.1mV-1000) V)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 26 / 71

Validity 27/01/2019 to 26/01/2021 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
74	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from Supply Voltage	IS 13875 Part(1,2,3)(Cl. 4.8), IS 13875 Part(2,3) (Cl. 3.8): 2014	Qualitative(Supply Voltagerange (20-500) V AC,20-600 VDC FrequencyRange 1Hz to 10 kHz (1mV to500 VAC))
75	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from Supply Voltage	IS 13875 Part(1,2,3)(Cl. 4.8), IS 13875 Part(2,3) (Cl. 3.8): 2014	Qualitative(Supply Voltagerange (20-500) V AC,20-600 VDCDCMeasuredACV oltage Range (1mV-1000) V)
76	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from Supply Voltage	IS 13875 Part(1,2,3)(Cl. 4.8), IS 13875 Part(2,3) (Cl. 3.8): 2014	Qualitative(:Supply Voltagerange (20-500) V AC,20-600 VDC-ACcurrent range 0.01mAto 10A (40 Hz to 100kHz))
77	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from Supply Voltage	IS 13875 Part(1,2,3)(Cl. 4.8), IS 13875 Part(2,3) (Cl. 3.8):: 2014	Qualitative(Supply Voltagerange (20-500) V AC, 20-600 V DC Resistance range: 0.10 ohm to 330 MoHm)
78	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from Supply Voltage	IS 13875 Part(1,2,3)(Cl. 4.8), IS 13875 Part(2,3) (Cl. 3.8): 2014	Qualitative(Supply Voltagerange (20-500) V AC,20-600 VD Capacitancerange0.33 nF to 1.1mF)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 27 / 71

Validity 27/01/2019 to 26/01/2021 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
79	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence error resulting from Supply Voltage	IS 13875 Part(1,2,3)(Cl. 4.8), IS 13875 Part(2,3) (Cl. 3.8): 2014	Qualitative(Supply Voltagerange (20-500) V AC,20-600 VDC-DC Current Range: (0.1mA to 10A))
80	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Intrinsic Error	IS 13875 Part(1) (Cl. 4.2), IS 13875 Part(2,3)(Cl. 3.2): 2004	Qualitative(0-1000V AC/DC,0-120A AC, 0-10 A DC 0-360° Resistance: 0.1 ohm to 330 MohmCapacitance: 0.33 nF ot 1.1 mFFrequency: 1 Hz to 2 MHz)
81	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Self Heating Due to Measured Quantity	IS 13875 Part (2) (Cl. 3.16), IS 13875 Part(3) (Cl. 3.11): 2014	Qualitative(Capacitanc erange (0.33 nF to 1.1mF))
82	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Self Heating Due to Measured Quantity	IS 13875 Part (2) (Cl. 3.16), IS 13875 Part(3) (Cl. 3.11): 2014	Qualitative(AC Current:0.01 mA to 10A)
83	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Self Heating Due to Measured Quantity	IS 13875 Part (2) (Cl. 3.16), IS 13875 Part(3) (Cl. 3.11): 2014	Qualitative(Frequencyr ange (0.01 Hz to 2MHz))



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 28 / 71

Validity 27/01/2019 to 26/01/2021 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
84	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Self Heating Due to Measured Quantity	IS 13875 Part (2) (Cl. 3.16), IS 13875 Part(3) (Cl. 3.11): 2014	Qualitative(DC Current(0.1mA to 10A))
85	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Self Heating Due to Measured Quantity	IS 13875 Part (2) (Cl. 3.16), IS 13875 Part(3) (Cl. 3.11): 2014	Qualitative(DC Voltage(0.01 mV to 1000 V))
86	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Self Heating Due to Measured Quantity	IS 13875 Part (2) (Cl. 3.16), IS 13875 Part(3) (Cl. 3.11): 2014	0.1 Ohm to 330 MOhm
87	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Vibration test(Sine)	IS 13875 Part(1 and 3) Cl.4.9.2: 2014	Qualitative(Freq. 10Hz to 5000Hz, Amplitude: ±20 mm Capacity:125 kgf)
88	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence Effect resulting from interference test	IS 13875 Part (2) (Cl. 3.11): 2014	1mV-1000 VDC, 1mA-10 A DC
89	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuring instruments for measurement and control	Influence Effect resulting from interference test	IS 13875 Part (2)(Cl. 3.11): 2014	1mV-1000VAC, 10 Hz to 10 kHz, 1 mA to 10A



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 29 / 71

Validity 27/01/2019 to 26/01/2021 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
90	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuringinstruments formeasurement andcontrol	Influence error resultingfrom change in RelativeAir Humidity	IS 13875 Part(1) (Cl. 4.5), IS 13875 Part(2,3) (Cl. 3.5): 2014	Qualitative(RH 20 to95%, Referencetemperature 20 to45°C DCCURRENT : 0.1mA to10A)
91	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuringinstruments formeasurement andcontrol	Influence error resultingfrom change in RelativeAir Humidity	IS 13875 Part(1) (Cl. 4.5), IS 13875 Part(2,3) (Cl. 3.5): 2014	Qualitative(RH: 20% to95%, TemperatureRange 20 to 45Å°C Capacitance : 0.33nFto 1.1mF)
92	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Digital Measuringinstruments formeasurement andcontrol	Influence error resultingfrom change inAmbient Temperature	IS 13875 Part(1) (Cl. 4.4) , IS 13875 Part(2,3)(Cl. 3.4): 2014	Qualitative(Temp - 40°Cto +150°C DCVoltage 1mV-1000 VDC)
93	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Ambient Temperature Influence	IS 13779 (Cl. 12.12), IS 14697(Cl. 12.11): 2004	Qualitative(Up to560V LN,10mA to120A,45Hz to65HzP.F.: +1 to - 11ph, 2W3ph,3W3ph, 4WTemp -40Å°C to 150Å°C)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 30 / 71

Validity 27/01/2019 to 26/01/2021 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
94	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Immunity to Earth Fault / abnormal voltage condition	IEC/EN 62052-11(CI. 7.4),IEC/EN 62053- 21,22,23: 2016	Qualitative(Up to 560V LN, Up to 120A)
95	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Influence of Heating	IEC/EN 62052-11(CI. 7.2),IEC/EN 62053- 21,22,2: 2016	Qualitative(Up to560V LN,10mA to120A,45Hz to65HzP.F.: +1 to - 11ph, 2W3ph,3W3ph, 4W)
96	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Influence of Heating	IS 13779 (CI. 12.7.5) IS 14697(CI. 12.7.5): 2004	Qualitative(Up to560V LN,10mA to120A,45Hz to65HzP.F.: +1 to - 11ph, 2W3ph,3W3ph, 4W)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 31 / 71

Validity 27/01/2019 to 26/01/2021 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
97	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Interpretation of Test Results and Adjustments	IEC/EN 62052- 11,IEC/EN 62053- 21,22,23 (cl 8.6): 2016	Qualitative
98	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Meter Constant	IEC/EN 62052- 11,IEC/EN 62053- 21,22,23 (Cl. 8.4): 2016	Qualitative(Up to 560V LN, 10mA to 120A, 45Hz to 65Hz P.F.: +1 to -1 1ph, 2W 3ph, 3W 3ph, 4W)
99	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Repeatability of errors	IS 13779 (Cl. 12.17),IS 14697(Cl. 12.16): 2004	Qualitative(Up to560V LN,10mA to120A,45Hz to65HzP.F.: +1 to - 11ph, 2W3ph,3W3ph, 4W)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 32 / 71

Validity 27/01/2019 to 26/01/2021 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
100	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Start Up Test of energy meters	IEC/EN 62052- 11, IEC/EN 62053- 21,22,23 (CI 8.3.1): 2016	Qualitative(Up to 560V LN, 1mA to 120A, 45Hz to 65Hz P.F.: +1 to - 11ph2W 3ph3W 3ph4W)
101	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Start Up Test of energy meters	IS 13779 (CI.11.4.1), IS 14697 (CI.11.4.1) : 2014	Qualitative(Up to 560V LN, 1mA to 120A, 45Hz to 65Hz P.F.: +1 to - 11ph2W 3ph3W 3ph4W)
102	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Starting Conditions	IEC/EN 62052- 11, IEC/EN 62053- 21,22,23 (CI. 8.3): 2016	Qualitative(Up to 560V LN, 1mA to 120A, 45Hz to 65Hz P.F.: +1 to - 11ph2W 3ph3W 3ph4W)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 33 / 71

Validity 27/01/2019 to 26/01/2021 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
103	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Test of influence quantities-Voltage variation-Frequency Variation-Reverse phase sequence- Voltage unbalance- Auxiliary Voltage-Wave form: 10% of 3rd harmonics in current circuit. °-Harmonics Component in current and voltage circuit-Sub harmonics in a.c. current circuit-Odd harmonics in AC current circuit- Operation of accessories Magneticinduction of externalorigin – 400AT	IEC/EN 62052- 11,IEC/EN 62053- 21,22,23 (cl 8.2): 2016	Qualitative(Up to 560V LN, 10mA to 120A, 45Hz to 65Hz P.F.: +1 to -1 1ph, 2W 3ph, 3W 3ph, 4W)
104	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Test of Power Consumption / Power loss test	IEC/EN 62052-11 IEC/EN 62053- 21,22,23 CI (7.1: 2016	Qualitative(AC : 0. 2 to 1 kW, 0.2 to 1 kVA)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 34 / 71

Validity 27/01/2019 to 26/01/2021 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
105	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Test of Power Consumption / Power Loss Test	IS 13779 (Cl. 12.7.1) IS 14697 (Cl. 12.7.1): 2004	AC : 0. 2 to 1 kW, 0.2 to 1 kVA
106	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Tests of Effect of Voltage Dips and Short Interruptions	IEC/EN 62052-11(Cl. 7.1.2), IEC/EN 62053- 21,22,23: 2016	Qualitative(:Up to230V 1ph2W 3ph3W,3ph4W)
107	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Tests of Effect of Voltage Dips and Short Interruptions	IS 13779 (Cl. 12.7.2) IS 14697(Cl. 12.7.2): 2004	Qualitative(Up to230V 1ph2W 3ph3W,3ph4W)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 35 / 71

Validity 27/01/2019 to 26/01/2021 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
108	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers	Vibration test (Sine)	IS 13779 Cl. 12.3.2, IS 14697 Cl. 12.3.2: 2004	Qualitative(Up to 560V LN, 10mA to 120A, 1ph, 2W , 3ph, 3W 3ph, 4W Freq. 10Hz to 5000Hz, Amplitude:± 20 mmCapacity:125 kgf)
109	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers	Vibration test(Sine)	IS 9000-Part 8: 1981	Qualitative(Freq. 10Hz to 5000Hz, Amplitude: ± 20 mmCapacity:125 kgf)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 36 / 71

Validity 27/01/2019 to 26/01/2021 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
110	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control,Electrical measuring transducers	Vibration test (Sine)	IEC/EN 62052-11 Cl. 5.2.2.3, IEC/EN 62053- 21,22,23 (Cl. 5): 2016	Qualitative(Freq. 10Hz to 5000Hz, Amplitude: ±20 mm Capacity:125 kgf)
111	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic Equipments/Digital Multifunction Measuring instruments for measurement and control	Ambient Temperature Influence	IEC/EN 62052- 11,IEC/EN 62053- 21,22,23 (Cl 8.2): 2016	Qualitative(Up to560V LN, 1mA to120A, 45Hz to65HzP.F.: +1 to -1 1ph2W, 3ph3W, 3ph4W Temp -40°C to 150°C)
112	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic Equipments/Digital Multifunction Measuring instruments for measurement and control	General and Constructional Requirements and Marking of Meters	IS 13779 (Cl. 6.1 to 6.7, and 6.10 to 6.11 & Cl. 7), IS 14697 (Cl. 6.1 to 6.7 and 6.10 to 6.11& Cl. 7: 2004	Qualitative



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 37 / 71

Validity 27/01/2019 to 26/01/2021 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
113	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic Equipments/Digital Multifunction Measuring instruments for measurement and control	General and Constructional Requirements and Marking of Meters	IEC/EN 62052-11 (Cl. 5.2.1, 5.2.2.3, 5.3 to 5.7 and 5.10, and 5.12) IEC/EN 62053- 21,22,23: 2016	Qualitative
114	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic Equipments/Digital Multifunction Measuring instruments for measurement and control	Insulation resistance test	IS 13779 (Cl. 12.7.6.4) IS 14697(Cl. 12.7.6.4): 2004	Qualitative(10kohm to 1 Tohm 50V to 1000V)
115	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Limiting conditions for storage and transport	EN/IEC 60688 ed.3 (Cl. 5.11): 2012	Qualitative(Temperatur e: -40°Cto +150°C RH20% to 98%)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 38 / 71

Validity 27/01/2019 to 26/01/2021 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
116	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Measuring Transducers/Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Temperature rise	IEC/EN 60688: 2012	Temperature range:20°C to 175°C
117	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Immunity test	CISPR 24 Cl.4.2.3.2, EN 55024 Cl.4.2.3.2: 2015	Qualitative(Frequency Range :80 MHz to 6 GHz Field strength :- Up to 10V/m (3m distance), Max EUT size: 1.5m x 1.5m Frequency Range : 80 MHz to 1 GHz Field Strength 30V/m (from 1m distance)EUT Size: 1m X 1m)
118	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	EFT test	IS14700 (part4/Sec4): 2018	Qualitative(0.5 kV to 5.5 kV 5 ns 50 ns)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 39 / 71

Validity 27/01/2019 to 26/01/2021 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
119	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Immunity test	IEC/EN 61326 -1 Cl.6.2 Table-1, Table-2, Table-3: 2012	Qualitative(Frequency Range :80 MHz to 6 GHz Field strength :- Up to 10V/m (3mdistance), Max EUT size: 1.5m x 1.5m Frequency Range : 80 MHz to 1 GHz Field Strength 30V/m (from 1m distance)EUT Size: 1m X 1m)
120	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	ESD test	IEC/EN 61000-4-2: 2008	Qualitative((0.2 kV to 30 kV) Contact: 30 kV Air :30 kV)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 40 / 71

Validity 27/01/2019 to 26/01/2021 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
121	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Lightning Surge test	EN/IEC 60688 ed.3 Cl.6.22: 2012	Qualitative(0.5kV- 7 kV 1.2 μ s-50 μ s 8 μ s - 20 μ s)
122	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Lightning Surge test.	CISPR24 Cl.4.2.5, EN 55024 Cl.4.2.5: 2015	Qualitative(0.5kV- 7 kV 1.2 μ s-50 μ s 8 μ s - 20 μ s)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 41 / 71

Validity 27/01/2019 to 26/01/2021 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
123	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Emission test	IEC/EN 61326 CI 7: 2012	Qualitative(Frequency Range:- 9 KHz to 6 GHz)
124	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Emission test	IEC/EN 61000-6-3 Table-1: 2010	Qualitative(Frequency Range:- 9 KHz to 6 GHz)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 42 / 71

Validity 27/01/2019 to 26/01/2021 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
125	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	EFT test	IEC/EN 61000-6-2 Cl.8 Table-2 Table-3,Table-4: 2016	Qualitative(0.5 kV to 5.5 kV5 ns50 ns)
126	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	EFT test	CISPR 14-2, EN55014-2,: 2015	Qualitative(0.5 kV to 5.5 kV5 ns50 ns)
127	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	EFT test	EN/IEC61000-6-1 Cl.8 Table-2 Table-3,Table-4: 2016	Qualitative(0.5 kV to 5.5 kV5 ns50 ns)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 43 / 71

Validity 27/01/2019 to 26/01/2021 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
128	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	EFT test	IEC 60688 Cl.6.22 : 2012	Qualitative(0.5 kV to 5.5 kV 5 ns 50 ns)
129	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Immunity test	IS14700 (part4/Sec3): 2004	Qualitative(Frequency Range :80 MHz to 6 GHz Field strength :- Up to 10V/m (3m distance)Max EUT size: 1.5m x 1.5m)
130	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Immunity test	IEC/EN 61000-6-1 (CL.8 Table 1),IEC/EN 61000-6-2 (CL.8 Table 1): 2016	Qualitative(Frequency Range :80 MHz to 6 GHz Field strength :- Up to 10V/m (3mdistance), Max EUT size: 1.5m x 1.5mFrequency Range : 80 MHz to 1 GHzField Strength 30V/m (from 1m distance)EUT Size: 1m X 1m)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 44 / 71

Validity 27/01/2019 to 26/01/2021 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
131	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Immunity test	CISPR 14-2, EN55014-2: 2015	Qualitative(Frequency Range :80 MHz to 6 GHz Field strength :- Up to 10V/m (3mdistance), Max EUT size: 1.5m x 1.5mFrequency Range : 80 MHz to 1 GHzField Strength 30V/m (from 1m distance)EUT Size: 1m X 1m)
132	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronic Equipment's Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Immunity test	IEC/EN 60688 Cl.6.22 : 2012	Qualitative(Frequency Range :80 MHz to 6 GHz Field strength :- Up to 10V/m (3m distance), Max EUT size: 1.5m x 1.5m)
133	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	EFT test	CISPR24 Cl. 4.2.2, EN 55024 Cl. 4.2.2, : 2015	Qualitative(0.5 kV to 5.5 kV 5 ns 50 ns)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 45 / 71

Validity 27/01/2019 to 26/01/2021 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
134	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	EFT test	IEC/EN 61000-4-4 : 2012	Qualitative(0.5 kV to 5.5 kV 5 ns 50 ns)
135	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	EFT test	EN/IEC 61326 – 1 Cl.6.2 Table-1, Table-2, Table-3: 2012	Qualitative(0.5 kV to 5.5 kV 5 ns 50 ns)
136	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Immunity test	IEC/EN 61000-4-3: 2010	Qualitative(80 MHz to 6GHz Field strength :- Up to 10V/m(3m distance), Max EUT size: 1.5m x 1.5m Frequency Range: 80 MHz to 1 GHz Field Strength 30V/m (from 1m distance) EUT Size: 1m X 1m))



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 46 / 71

Validity 27/01/2019 to 26/01/2021 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
137	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Conducted Emission test	IEC/EN 61326-1 : 2012	Qualitative(Frequency Range:- 0.15 MHz to 30 MHz. For power line.)
138	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Conducted Emission test	IEC/EN 60688 Cl. 6.22 : 2012	Qualitative(Frequency Range:-0.15 MHz to 30 MHz.For power line.)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 47 / 71

Validity 27/01/2019 to 26/01/2021 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
139	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Conducted Emission test	CISPR11: 2016	Qualitative(Frequency Range:-0.15 MHz to 30 MHz.For power line)
140	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Conducted Emission test	EN 61000-6-4: 2018	Qualitative(Frequency Range:-0.15 MHz to 30 MHz.For power line.)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 48 / 71

Validity 27/01/2019 to 26/01/2021 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
141	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Conducted Emission test	IEC/EN 61000-6-3 : 2010	Qualitative(Frequency Range:- 0.15 MHz to 30 MHz. For power line)
142	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	ESD test	EN/IEC 61326 – 1, Cl.6.2 Table-1, Table-2, Table-3: 2012	Qualitative((0.2 kV to 30 kV)Contact: 30 kV Air :30 kV)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 49 / 71

Validity 27/01/2019 to 26/01/2021 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
143	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	ESD test	CISPR24 Cl.4.2.1, EN 55024 Cl.4.2.1: 2015	Qualitative((0.2 kV to 30 kV)Contact: 30 kV Air :30 kV)
144	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	ESD test	EN/IEC 60688 Cl.6.22: 2012	Qualitative((0.2 kV to 30 kV) Contact: 30 kV Air :30 kV)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 50 / 71

Validity 27/01/2019 to 26/01/2021 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
145	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	ESD test	CISPR 14-2, EN 55014-2: 2015	Qualitative((0.2kV to 30 kV) Contact: 30 kV Air :30 kV)
146	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	ESD test	IS14700 (part4/Sec2): 2008	Qualitative((0.2 kV to 30 kV)Contact: 30 kV Air :30 kV)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 51 / 71

Validity 27/01/2019 to 26/01/2021 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
147	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	ESD test	IEC/EN 61000-6-1 (Cl.8) table-1, IEC/EN 61000-6-2 Cl.8 Table-1: 2016	Qualitative((0.2 kV to 30 kV) Contact: 30 kV Air :30 kV)
148	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	lightning Surge Test	IEC/EN 61326-1 Cl.6.2 Table-1, Table-2, Table-3: 2012	Qualitative(0.5kV- 7 kV 1.2 μ s-50 μ s 8 μ s - 20 μ s)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 52 / 71

Validity 27/01/2019 to 26/01/2021 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
149	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Lightning Surge test	CISPR 14-2, EN 55014-2: 2015	Qualitative(0.5kV- 7 kV 1.2 μ s-50 μ s 8 μ s - 20 μ s)
150	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Power Frequency magnetic field test	IEC/EN 60688 ed.3 CI.6.22 : 2012	Qualitative(Up to 170 A/m)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 53 / 71

Validity 27/01/2019 to 26/01/2021 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
151	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Power frequency magnetic field test.	CISPR 24 Cl. 4.2.4, EN 55024 Cl. 4.2.4: 2015	Qualitative(Up to 170 A/m)
152	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Emission test	IS 13779 Cl. 12.9.5, IS 14697 Cl. 12.8.5: 2004	Qualitative(Frequency Range:- 9 KHz to 6 GHz)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 54 / 71

Validity 27/01/2019 to 26/01/2021 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
153	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Emission test	IEC/EN 61000-6-4: 2018	Qualitative(Frequency Range:- 9 KHz to 6 GHz)
154	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Emission test	CISPR 14-1: 2016	Qualitative(Frequency Range:- 9 KHz to 6 GHz)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 55 / 71

Validity 27/01/2019 to 26/01/2021 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
155	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Emission test	CISPR 11: 2016	Qualitative(Frequency Range:- 9 KHz to 6 GHz)
156	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Emission test	CISPR 32, EN 55032: 2015	Qualitative(Frequency Range:- 9 KHz to 6 GHz)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 56 / 71

Validity 27/01/2019 to 26/01/2021 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
157	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Emission test	IEC/EN 60688 Cl.6.22 : 2012	Qualitative(Frequency Range:- 9 KHz to 6 GHz)
158	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Voltage Dips & Interruption test	CISPR 14-2 Ed1.2, Cl. 5.7, EN 55014-2 Ed1.2, Cl. 5.7: 2015	Qualitative(Single phase: 32A per phase Three phase: 32A per phase Frequency 50Hz Programmable from 0% to 100% of supply voltage)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 57 / 71

Validity 27/01/2019 to 26/01/2021 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
159	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Voltage Dips & Interruption test	IEC/EN 61326-1 Cl.6.2 Table-1, Table-2, Table-3: 2012	Qualitative(Single phase: 32A per phase Three phase: 32A per phase Frequency 50Hz Programmable from 0% to 100% of supply voltage)
160	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Voltage Dips & Interruption test	IEC/EN 60688 Cl.6.22: 2012	Qualitative(Single phase: 32A per phase Three phase: 32A per phase Frequency 50Hz Programmable from 0% to 100% of supply voltage)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 58 / 71

Validity 27/01/2019 to 26/01/2021 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
161	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Voltage Dips & Interruptions	IEC/EN 61000-4-11: 2017	Qualitative(Single phase: 32A per phase Three phase: 32A per phase Frequency 50Hz Programmable from 0% to 100% of supply voltage)
162	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Power Frequency Magnetic Field	IEC/EN 61326-1 Cl.6.2 Table-1, Table-2: 2012	Qualitative(Up to 170 A/m)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 59 / 71

Validity 27/01/2019 to 26/01/2021 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
163	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Voltage Dips & Interruption test	CISPR24 Cl.4.2.6, BS EN 55024 Cl.4.2.6: 2015	Qualitative(Single phase: 32A per phase Three phase: 32A per phase Frequency 50Hz Programmable from 0% to 100% of supply voltage)
164	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Conducted Emission test	CISPR 32/EN 55032: 2015	Qualitative(Frequency Range:-0.15 MHz to 30 MHz.)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 60 / 71

Validity 27/01/2019 to 26/01/2021 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
165	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Conducted Emission test	IS 13779 Cl. 12.9.5, IS 14697 Cl. 12.8.5: 2004	Qualitative(0.15 MHz to 30MHz. For powerline)
166	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Conducted Emission test	IEC/EN 62052-11 Cl. 7.5.8, IEC/EN 62053-21,22,23 Cl. 8.2: 2016	Qualitative(Frequency Range:-0.15 MHz to 30 MHz.For power line.)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 61 / 71

Validity 27/01/2019 to 26/01/2021 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
167	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	ESD	IS 13779 Cl. 12.9.2, IS 14697 Cl. 12.8.2: 1999	Qualitative((0.2kV to 30kV)Contact: 30 kV Air :30 kV)
168	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	ESD test	IEC/EN 62052-11 (Cl. 7.5.2), IEC/EN 62053-21, 22,23 (Cl 8.2): 2016	Qualitative((0.2 kV to 30 kV)Contact: 30 kV Air :30 kV)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 62 / 71

Validity 27/01/2019 to 26/01/2021 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
169	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	lightning surge test	IEC/EN 62052-11 Cl. 7.5.6, IEC/EN 62053-21,22,23 Cl 8.2: 2016	Qualitative(0.5kV- 7 kV 1.2 μ s-50 μ s 8 μ s - 20 μ s)
170	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	lightning surge test	IEC/EN 61000-6-1 Cl.8 table2,Table-3, Table-4 IEC/EN 61000-6-2 table 2,Table 3, table 4 : 2016	Qualitative(0.5kV- 7 kV 1.2 μ s-50 μ s 8 μ s - 20 μ s)



National Accreditation Board for Testing and Calibration Laboratories

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SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 63 / 71

Validity 27/01/2019 to 26/01/2021 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
171	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Lightning Surge test	IEC/EN 61000-4-5: 2014	Qualitative(0.5kV- 7 kV, 1.2 μ s-50 μ s 8 μ s - 20 μ s)
172	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Power frequency magnetic Field test	IEC/EN 61000-6-1 Cl.8 Table-1, IEC/EN 61000-6-2 Cl.8 Table-1: 2015	Qualitative(Up to 170 A/m.)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 64 / 71

Validity 27/01/2019 to 26/01/2021 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
173	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Power Frequency Magnetic field test	IEC/EN 61000-4-8: 2009	Qualitative(Up to 170 A/m)
174	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Radiated Emission test	IEC/EN 62052-11 Cl.7.5.8, IEC/EN 62053-21,22,23 Cl. 8.2: 2015	Qualitative(Frequency Range:- 9 KHz to 6 GHz)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 65 / 71

Validity 27/01/2019 to 26/01/2021 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
175	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic EquipmentsDigital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Voltage Dips & Interruption test	IEC/EN 61000-6-1 Cl.8 Table-4 IEC/EN 61000-6-2 Cl.8 Table-4: 2016	Qualitative(Single phase: 32A per phaseThree phase: 32A per phase Frequency 50HzProgrammable from 0% to 100% of supply voltage)
176	ELECTRICAL- EMI / EMC TEST FACILITY	Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Test of Immunity to Conducted Disturbances, Induced by Radio Frequency Fields (as per CDN method) (Power Ports)	IEC 61000-6-2 Cl.8 Table-2, Table-3, Table-4: 2016	Qualitative(100kHz-300 MHz (1-30 V) for power port and (1-20) V for EM Clamp)
177	ELECTRICAL- EMI / EMC TEST FACILITY	Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Test of Immunity to Conducted Disturbances, Induced by Radio Frequency Fields (as per CDN method) (Power Ports)	IEC/EN 60688 Cl.6.22: 2012	Qualitative(100kHz-300 MHz (1-30 V) for power port and (1-20) V for EM Clamp)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 66 / 71

Validity 27/01/2019 to 26/01/2021 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
178	ELECTRICAL- EMI / EMC TEST FACILITY	Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Test of Immunity to Conducted Disturbances, Induced by Radio Frequency Fields(as per CDN method)(Power Ports)	CISPR 14-2, EN 55014-2: 2015	Qualitative(100kHz-300 MHz (1-30 V) for power port and (1-20) V for EM Clamp)
179	ELECTRICAL- EMI / EMC TEST FACILITY	Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Test of Immunity to Conducted Disturbances, Induced by Radio Frequency Fields(as per CDN method)(Power Ports)	IEC/EN 61000-4-6: 2013	Qualitative(100kHz-300 MHz (1-30 V) for power port and (1-20) V for EM Clamp)
180	ELECTRICAL- EMI / EMC TEST FACILITY	Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Test of Immunity to Conducted Disturbances, Induced by Radio Frequency Fields(as per CDN method)(Power Ports)	IEC/EN 61326-1 Cl.6.2 Table-1, Table-2, Table-3: 2012	Qualitative(100kHz-300 MHz (1-30 V) for power port and (1-20) V for EM Clamp)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 67 / 71

Validity 27/01/2019 to 26/01/2021 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
181	ELECTRICAL- EMI / EMC TEST FACILITY	Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Test of Immunity to Conducted Disturbances, Induced by Radio Frequency Fields(as per CDN method)(Power Ports)	IEC/EN 61000-6-1 Cl.8 Table-2, Table-3, Table-4: 2016	Qualitative(100kHz-300 MHz (1-30 V) for power port and (1-20) V for EM Clamp)
182	ELECTRICAL- EMI / EMC TEST FACILITY	Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control , Electrical measuring transducers, Equipment for house hold	Test of Immunity to Conducted Disturbances, Induced by Radio Frequency Fields(as per CDN method)(Power Ports)	CISPR24 Cl. 4.2.2.3, EN 55024 Cl. 4.2.2.3: 2015	Qualitative(100kHz-300 MHz (1-30 V) for power port and (1-20) V for EM Clamp)
183	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Damp heat cyclic test	IEC 60068-2-30 : 2005	Qualitative(Relative Humidity :20% to 98% RH Temperature : 20° to 70°C)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 68 / 71

Validity 27/01/2019 to 26/01/2021 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
184	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Cold test	IS 13779 Cl. 12.6.2:1999, IS 14697 Cl. 12.6.3: 2004	Qualitative(0°C to - 40°C)
185	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Cold test	IS 14697 Cl. 12.6.3: 2004	Qualitative(0°C to - 40°C)
186	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Damp Heat Cyclic	IS 9000 (Part 5 / Sec 1 to 2): 2014	Qualitative(Relative Humidity :20% to 98% RH Temperature : 20° to 70°C)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 69 / 71

Validity 27/01/2019 to 26/01/2021 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
187	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Cold Test	IEC 60068-2-1: 2007	Qualitative(0°C to - 40°C)
188	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Cold Test	IS 9000 (Part2 / Sec 1-4): 2004	Qualitative(0°C to - 40°C)
189	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Dry heat test	IS 9000 (Part III / Sec 1&3): 2004	Qualitative(0 °C to 150 °C)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 70 / 71

Validity 27/01/2019 to 26/01/2021 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
190	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Dry heat test	IEC/EN 62052-11 Cl. 6. 3.1, IEC/EN 62053-21,22,23 (Cl. 6): 2016	Qualitative(0 °C to 150 °C)
191	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Dry heat test	IEC 60068-2-2: 2007	Qualitative(0 °C to 150 °C)
192	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipments Digital Multifunction Measuring instruments for measurement and control	Damp heat Cyclic test	IEC/EN 62052-11 Cl. 6.3.3, IEC/EN 62053-21,22,23 Cl 6: 2016	Qualitative(Relative Humidity :20% to 98% RH Temperature : 20° to 70°C)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RISHABH TESTING AND CALIBRATION LABORATORY, RISHABH INSTRUMENT PVT LTD, C-6 NICE TRISHLA UNIT NASIK SATPUR, NASHIK, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8316 Page No. : 71 / 71

Validity 27/01/2019 to 26/01/2021 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
193	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic Equipments/Digital Multifunction Measuring instruments for measurement and control	Cold test	IEC/EN 62052-11 (Cl. 6.3.2):2003 +AMD 1:2016, IEC/EN 62053-21 (Cl. 6) :2003+AMD1:2016 ,IEC/EN 62053-22:(Cl. 6) 2003+AMD1:2016 ,IEC/EN 62053-23(Cl. 6):2003+AMD1: : 2016	Qualitative(0°C to - 40°C)
194	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical and Electronic (Static) Energy meters& Tariff and Load Control Equipment & Electrical / Electronic Equipments/Digital Multifunction Measuring instruments for measurement and control	Dry heat test	IS 13779 Cl. 12.6.1, IS 14697 Cl. 12.6.1: 2014	Qualitative(0 °C to 150 °C)
195	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical/ Electronic Equipments/ Digital Multifunction Measuring instruments for measurement and control	Damp heat Cyclic test	IS 13779 Cl. 12.6.3, IS 14697 Cl. 12.6.3): 2014	Qualitative(Relative Humidity :20% to 98%RH Temperature : 20°to 70°C))