National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : Q.A. LAB, MAHASHAKTI ENERGY LTD., A-8, FOCAL POINT, DABWALI ROAD, BATHINDA, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-4134 **Page No** 1 of 3

Validity 19/05/2023 to 18/05/2025 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE / THREE PHASE ENERGY METER, CLASS-I	AC High Voltage Test	IS 13779
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE / THREE PHASE ENERGY METER, CLASS-I	Insulation Resistance Test	IS 13779
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE / THREE PHASE ENERGY METER, CLASS-I	Test of Limits of Error	IS 13779
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE / THREE PHASE ENERGY METER, CLASS-I	Test of Meter Constant	IS 13779
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE / THREE PHASE ENERGY METER, CLASS-I	Test of No Load Condition	IS 13779
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE / THREE PHASE ENERGY METER, CLASS-I	Test of Power Consumption	IS 13779
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE / THREE PHASE ENERGY METER, CLASS-I	Test of Repeatability of Error	IS 13779
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE / THREE PHASE ENERGY METER, CLASS-I	Test of Starting Condition	IS 13779
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE / THREE PHASE ENERGY METER, CLASS-I	Test of Meter Constant	IS 16444 (Part-1)
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE/THREE PHASE SMART METER, CLASS-I	Test of Starting Condition	IS 16444 (Part-1)

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11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE/THREE PHASE SMART METER,CLASS-I	Insulation Resistance Test	IS 16444 (Part-1)
12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE/THREE PHASE SMART METER,CLASS-I	Test of Repeatability of Error	IS 16444 (Part-1)
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE/THREE PHASE SMART METER,CLASS-I	AC High Voltage Test	IS 16444 (Part-1)
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE/THREE PHASE SMART METER,CLASS-I	Test of Limits of Error	IS 16444 (Part-1)
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE/THREE PHASE SMART METER,CLASS-I	Test of No Load Condition	IS 16444 (Part-1)
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	SINGLE PHASE/THREE PHASE SMART METER,CLASS-I	Test of Power Consumption	IS 16444 (Part-1)
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	DISTRIBUTION TRANSFORMER of rating up to 1000 kVA and voltage up to 33 kV	Adhesion by Tape Test	IS 1180 (Part-1)
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	DISTRIBUTION TRANSFORMER of rating up to 1000 kVA and voltage up to 33 kV	Measurement of Insulation Resistance	IS 1180 (Part-1)
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	DISTRIBUTION TRANSFORMER of rating up to 1000 kVA and voltage up to 33 kV	Measurement of Short Circuit Impedance and Load Loss at 50% and 100% Load	IS 1180 (Part-1)
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	DISTRIBUTION TRANSFORMER of rating up to 1000 kVA and voltage up to 33 kV	Measurement of Voltage Ratio & Check of Phase Displacement	IS 1180 (Part-1)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	DISTRIBUTION TRANSFORMER of rating up to 1000 kVA and voltage up to 33 kV	Oil Leakage Test	IS 1180 (Part-1)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	DISTRIBUTION TRANSFORMER of rating up to 1000 kVA and voltage up to 33 kV	Separate Source Voltage Withstand Test	IS 1180 (Part-1)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	DISTRIBUTION TRANSFORMER of rating up to 1000 kVA and voltage up to 33 kV	Temperature Rise Test	IS 1180 (Part-1)
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	DISTRIBUTION TRANSFORMER of rating up to 1000 kVA and voltage up to 33 kV	Induced Over-Voltage Withstand Test	IS 1180 (Part-1)

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25	ELECTRICAL- INDUCTORS & TRANSFORMERS	DISTRIBUTION TRANSFORMER of rating up to 1000 kVA and voltage up to 33 kV	Magnetic Balance Test	CBIP 317
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	DISTRIBUTION TRANSFORMER of rating up to 1000 kVA and voltage up to 33 kV	Measurement of No-load Loss & Current	IS 1180 (Part-1)
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	DISTRIBUTION TRANSFORMER of rating up to 1000 kVA and voltage up to 33 kV	Measurement of Winding Resistance	IS 1180 (Part 1) Amendment No. 1 & 2
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	DISTRIBUTION TRANSFORMER of rating up to 1000 kVA and voltage up to 33 kV	No Load current at 112.5% Voltage	IS 1180 (Part-1)
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	DISTRIBUTION TRANSFORMER of rating up to 1000 kVA and voltage up to 33 kV	Oil Break Down Voltage Test	IS 1180 (Part-1)
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	DISTRIBUTION TRANSFORMER of rating up to 1000 kVA and voltage up to 33 kV	Pressure Test	IS 1180 (Part-1)