National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CENTRE OF PUMP ENGINEERING, SHRI G. S. INSTITUTE OF TECHNOLOGY AND SCIENCE, INDORE, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11389 **Page No** 1 of 3

Validity 16/02/2023 to 15/02/2025 **Last Amended on** 06/03/2023

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- ROTATING ELECTRICAL MACHINES	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes	Break-away Torque	IS 9079 (Clause 11.8.1 (f))
2	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes	Current	IS 9079 (Clause 12 & 13)
3	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes	Discharge	IS 9079 (Clause 12 & 13)
4	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes	Guarantee and Tolerance on Pumpset Performance	IS 9079 (Clause 12 & 13)
5	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes	Head	IS 9079 (Clause 12 & 13)
6	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes	High Voltage Test	IS 9079 (Clause 11.8.1 (b))
7	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes	Insulation Resistance Test	IS 9079 (Clause 11.8.1(c))
8	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes	Locked Rotor Test	IS 9079 (Clause 11.8.1(e)), IS 7538 & IS 4029
9	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes	Measurement of Stator Resistance	IS 9079 (Clause 11.8.1(a)), IS 7538
10	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes	Power	IS 9079 (Clause 12 & 13)
11	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes	Reduced Voltage Running Up Test	IS 9079 (Clause 11.8.1(g)), IS 7538 & IS 4029
12	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes	Temperature Rise Test at Rated Voltage	IS 9079 (Clause 11.8.1 (h))
13	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes	Temperature Rise Test at Reduced Voltage	IS 9079 (Clause 11.8.1 (j))
14	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes	Test for No Load Curent and Power Input at Suitable Voltage and Supply Frequency	IS 9079 (Clause 11.8.1(d)), IS 7538 & IS 4029
15	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpset	Brake Away Test	IS 8034 (Clause 9.10 g), IS 9283
16	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpset	High Voltage Test	IS 8034(Clause 9.10 b), IS 9283
17	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpset	Insulation Resistance Test	IS 8034 (Clause 9.10 a), IS 9283
18	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpset	Leakage Current Test	IS 8034 (Clause 9.10 h), IS 9283

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19	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpset	Locked Rotor Test	IS 8034 (Clause 9.10 f), IS 9283
20	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpset	Measurement of Stator Resistance	IS 8034 (Clause 9.10 c), IS 9283
21	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpset	Reduced Voltage Running up Test	IS 8034 (Clause 9.10 e), IS 9283
22	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpset	Temperature Rise Test at Rated Voltage	IS 8034 (Clause 9.10 j), IS 9283
23	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpset	Temperature Rise Test at Reduced Voltage	IS 8034 (Clause 9.10 k), IS 9283
24	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpset	Test for No Load Current and Power Input at Suitable Voltage and Supply Frequency	IS 8034 (Clause 9.10 d), IS 9283
25	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pump-set	Break away Torque	IS 14220 (Clause 14.10.1 (e)), IS 9283
26	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pump-set	Current	IS 14220 (Clause 15 & 16)
27	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pump-set	Discharge	IS 14220 (Clause 15 & 16)
28	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pump-set	Guarantee and Tolerance on Pumpset Performance	IS 14220 (Clause 15 & 16)
29	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pump-set	Head	IS 14220 (Clause 15 & 16)
30	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pump-set	High Voltage Test	IS 14220 (Clause 14.10.1 (b)), IS 9283
31	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pump-set	Insulation Resistance Test	IS 14220 (Clause 14.I0.1 (a)), IS 9283
32	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pump-set	Leakage Current Test	IS 14220 (Clause 14.10.1 (h)), IS 9283
33	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pump-set	Locked Rotor Reading of Voltage, Current, Power Input, Torque of Motor	IS 14220 (Clause 14.I0.1 (f)), IS 9283
34	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pump-set	Measurement of Stator Resistance	IS 14220 (Clause 14.I0.1 (c)), IS 9283
35	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pump-set	No Load Test	IS 14220 (Clause 14.10.1 (d)), IS 9283
36	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pump-set	Power	IS 14220 (Clause 15 & 16)

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37	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pump-set	Reduced Voltage Running up Test	IS 14220 (Clause 14.10.1 (e)), IS 9283
38	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pump-set	Temperature Rise Test at Rated Voltage	IS 14220 (Clause 14.10.1 (i)), IS 9283
39	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pump-set	Temperature Rise Test at Reduced Voltage	IS 14220 (Clause 14.10.1 (j)), IS 9283
40	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SPV Pumping System (Submersible Pumpset) upto 15 A DC Current	Perfbrmance Evolution of SPV Pumping System using Outdoor Condition using Sun Condition	IS 17429 (Clause 5.3)
41	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SPV Pumping System (Submersible Pumpset) upto 15 A DC Current	Performance Evolution of SPV Pumping System using Simulator Methods for Cold Profile	IS 17429 (Clause 5.2)
42	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SPV Pumping System (Submersible Pumpset) upto 15 A DC Current	Performance Evolution of SPV Pumping System using Simulator Methods for Hot Profile	IS 17429 (Clause 5.1)
43	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpset	Current	IS 8034 (Clause 10 & 11)
44	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpset	Discharge	IS 8034 (Clause 10 & 11)
45	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpset	Guarantee and tolerance on Pumpset Performance	IS 8034 (Clause 10 & 11)
46	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpset	Head	IS 8034 (Clause 10 & 11)
47	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpset	Power	IS 8034 (Clause 10 & 11)