National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RAJKOT ENGINEERING TESTING AND RESEARCH CENTRE, PLOT 372, AJI GIDC, O-ROAD, RAJKOT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9074 **Page No** 1 of 6

Validity 28/10/2022 to 27/10/2024 **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- ROTATING ELECTRICAL MACHINES	Pump-Regenerative (Self Priming)	Breakaway (starting) Torque Test (Lock rotor)	IS 8472 Cl.No.13 &14.2.
2	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	Balancing	IS 9079, Cl.No.10.4
3	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	Constructional Features	IS 9079,Cl.No. 7
4	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	Design Features	IS 9079,Cl.No. 9
5	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	Direction of rotation	IS 9079,Cl.No.10.6
6	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	General Requirements	IS 9079, Cl.No.10
7	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	High Voltage Test	IS 9079, Cl.No.11.3
8	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	Hydrostatic Test	IS 9079,Cl.No. 12.6
9	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	Insulation Resistance Test	IS 9079 Cl.No.11.2
10	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	Locked rotor Test/Breakaway Torque/starting torque	IS 9079, Cl.No.11.5 &11.8.(e &f)
11	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	Marking / Rating Plate	IS 9079, Cl.No.15
12	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	Measurement of Stator Resistance	IS 9079 Cl.No.11.8.1(a)
13	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	No load test at reduced Voltage	IS 9079, Cl.No.11.7 (e)
14	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	No-load Test at Rated Voltage	IS 9079 Cl.No.11.7.(c)
15	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	Provision for Earthing	IS 9079 Cl.No.10.5
16	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	Pumpset Performance	IS 9079 Cl.No.8 & 11 & 12 & 13
17	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	Temperature rise test at rated Voltage	IS 9079, Cl.No. 11.4.1.1
18	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	Temperature rise test at reduced voltage	IS 9079 Cl.No. 11.4.1.2

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19	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset Pumps (Non-Self Priming) for Agricultural Purposes	Terminal Marking	IS 9079, CL.No.10.6
20	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Balancing of rotor	IS 9283 Cl.No.5.6
21	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Construction Details	IS 9283 Cl.No.5
22	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Dimensions and Tolerances	IS 9283 Cl.No.7
23	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	FInish Test / bearing or roughness test	IS 9283 Cl.No.5.5
24	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Full Load Test	IS 9283 Cl.No. 16.1 (g)
25	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	High Voltage Test	IS 9283 Cl.No. 16.1.(b), 20
26	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Insulation Resistance Test	IS 9283 Cl.No.16.1.(a), 21
27	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Leakage Current test	IS 9283 Cl.No.16.1.(n), 23
28	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Lock rotor Test	IS 9283 Cl.No 16.1.(f)
29	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Measurement of Stator Resistance	IS 9283 Cl.No.16.1.(c)
30	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Momentary Over load Test	IS 9283 Cl.No. 16.1 (m), 10, 18
31	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	No Load test at Rated Voltage	IS 9283 Cl.No. 16.1.(d)
32	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	No load test at Reduced Voltage	IS 9283 Cl.No.16.1.(e)
33	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Performance Characteristic	IS 9283 Cl.No. 16.1.(h), 11, 12, 17, 8, 22
34	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Provision for Earthing	IS 9283 Cl.No.5.2
35	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Temperature rise test at rated Voltage	IS 9283 Cl.No.16.1.(j), 9, 19
36	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Temperature rise test at reduced voltage	IS 9283 Cl.No.16.1.(k), 9, 19
37	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Terminal Markings	IS 9283 Cl.No.13

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38	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Verification of Marking/Rating Plate	IS 9283 Cl.No.15
39	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for Submersible Pumpsets	Voltage and Frequency Variation	IS 9283 Cl.No.6.2
40	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Balancing of rotor/ Balancing of Impeller, General Requirement	IS 14220 Cl.No.10
41	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Cable	IS 14220 Cl.No.12
42	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Constructional Features	IS 14220 Cl.No.7
43	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Design Features	IS 14220 Cl.No.8
44	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Dimensions And Tolerances	IS 14220 Cl.No.11
45	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Direction of rotation	IS 14220 Cl.No.10.7
46	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	High Voltage Test	IS 14220 Cl.No.14.4
47	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Hydrostatic test	IS 14220 Cl.No.15.5
48	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Insulation Resistance Test	IS 14220 Cl.No. 14.3
49	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Leakage Current Test	IS 14220 Cl.No.14.5
50	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Locked rotor Test / Breakaway (starting) Torque Test	IS 14220 Cl.No.14.10.1(f) & (g),14.7
51	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Marking/Rating Plate	IS 14220 Cl.No.18
52	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Measurement of Stator Resistance	IS 14220 Cl.No.14.10.1(c)
53	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	No Load test at Rated Voltage	IS 14220 Cl.No.14.10.1(d)
54	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	No load Test at Reduced Voltage	IS 14220 Cl.No.14.10.1(e)
55	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Openwell Submersible Motors	IS 14220 Cl.No.13
56	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Provision for Earthing	IS 14220 Cl.No.10.6

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57	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Pumpset & Motor Performance	IS 14220 CL.No.9,14,15,16
58	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Surface Finish Test/Bearing or roughness Test	IS 14220 Cl.No.10.4.2
59	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Temperature rise test at rated voltage	IS 14220 Cl.No.14.6.5, 14.6
60	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Temperature rise test at reduced Voltage	IS 14220 Cl.No.14.6.6, 14.6
61	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Terminal Marking	IS 14220 Cl.No.10.7
62	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Pump-Regenerative (Self Priming)	Direction of Rotation	IS 8472 Cl.No.8
63	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Pump-Regenerative (Self Priming)	High Voltage Test	IS 8472, Cl.No. 13 & 14.2
64	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Pump-Regenerative (Self Priming)	Hydrostatic Test	IS 8472, Cl.No. 12.3
65	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Pump-Regenerative (Self Priming)	Insulation Resistance Test	IS 8472 CL.No. 13 & 14.2
66	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Pump-Regenerative (Self Priming)	Marking/Rating Plate	IS 8472 Cl. No. 16
67	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Pump-Regenerative (Self Priming)	Material of Construction, Design Features, Genaral Requirements	IS 8472 Cl.No.7,10,11
68	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Pump-Regenerative (Self Priming)	Measurement of Stator Resistance	IS 8472 CL.No. 13 &14.2
69	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Pump-Regenerative (Self Priming)	No Load Test at Rated Voltage	IS 8472 CL.No.13 &14.2
70	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Pump-Regenerative (Self Priming)	No load test at Reduced Voltage	IS 8472 Cl.No. 13 &14.2
71	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Pump-Regenerative (Self Priming)	Pumpset Performance	IS 8472 Cl.No.9 & 12 & 15
72	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Pump-Regenerative (Self Priming)	Self Priming Test	IS 8472 Cl.No. 12.5
73	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Pump-Regenerative (Self Priming)	Temperature rise Test at Rated Voltage	IS 8472 Cl.No. 13.1 & 13.2
74	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Pump-Regenerative (Self Priming)	Temperature rise test at reduced voltage	IS 8472 Cl.No. 13.1 & 13.2

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75	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible pumps	Measurement of Shaft Extension	IS 8034 Cl.No. 8.4.1
76	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpset	Insulation Resistance Test	IS 8034 Cl.9.2
77	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Balancing of rotor / Balancing of Impeller	IS 8034 Cl.No.8.5
78	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Constructional Features	IS 8034 Cl.No.6
79	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Design Feature	IS 8034 Cl.No.7
80	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	General Requirement	IS 8034 Cl.No. 8
81	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	High Voltage Test	IS 8034 Cl.No.9.3
82	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Hydrostatic Pressure Test	IS 8034 Cl.No.10.3
83	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Leakage Current Test	IS 8034 Cl.No.9.4
84	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Locked rotor test / Breakaway (Starting) Torque Test	IS 8034 Cl.No.9.7 & 9.10(f & g)
85	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Measurement of Stator Resistance	IS 8034 Cl.No.9.10(c)
86	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	No Load running of motor at Rated Voltage	IS 8034 Cl. No.9.10(d)
87	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Provision for Earthing	IS 8034 Cl.8.9.4
88	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Pumpset Performance Test	IS 8034 Cl.No.10,11,12,13
89	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Reduced Voltage running	IS 8034 Cl.No.9.10(e)
90	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Submersible Cable	IS 8034 Cl.No.8.6
91	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Submersible Motors , Electrical Performance	IS 8034 Cl.No.8.10, 9
92	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Surface finish test / Bearing or Roughness Test	IS 8034 Cl.No.8.4.2
93	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Temperature rise Test at Rated Voltage	IS 8034 Cl.No.9.5.1, 9.5.2, 9.6

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94	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Temperature rise test at reduced Voltage	IS 8034 Cl. No. 9.5.1, 9.5.3, 9.6
95	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Typical Installation	IS 8034 Cl. No.8.9
96	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Verification of Marking and Rating Plate	IS 8034 Cl.No.14.1
97	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Verification of Terminal Marking	IS 8034 Cl.No. 8.8
98	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumsets	Direction of Rotation	IS 8034 Cl.No.8.7
99	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumsets	Voltage and Frequency Variation	IS 8034 Cl.No.7.1.10