National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : HASTI ENGINEERS, KAILASH INDUSTRIAL AREA, 40 FEET SWATI RESIDENCY MAIN ROAD, RAJKOT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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	Motors for submersible pump sets	Measurement of Stator Resistance	IS 9283 Cl No.16.1 (c)
2	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pump sets	Leakage Current Test	IS 9283 Cl No.16.1 (n)
3	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pump sets	Lock Rotor Test	IS 9283 Cl No.16.1 (f)
4	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pump sets	Momentary Over Load Test	IS 9283 Cl No.16.1 (m)
5	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pump sets	No Load test at Rated Voltage	IS 9283 Cl No.16.1 (d)
6	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pump sets	No Load test at Reduced Voltage	IS 9283 Cl No.16.1 (e)
7	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pump sets	Provision for Earthing	IS 9283 Cl No.5.2
8	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pump sets	Terminal Marking	IS 9283 Cl No.13
9	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pump sets	Verification of Marking / Rating Plate	IS 9283 Cl No.15
10	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pump sets	Temperature rise test at rated Voltage	IS 9283 Cl No.16.1 (j)
11	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pump sets	Temperature rise test at Reduced Voltage	IS 9283 Cl No.16.1 (k)
12	ELECTRICAL- ROTATING ELECTRICAL MACHINES	motors for submersible pump sets	Balancing of rotor	IS 9283 CL NO.5.6
13	ELECTRICAL- ROTATING ELECTRICAL MACHINES	motors for submersible pump sets	Construction Details	IS 9283 CL NO.5
14	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pump sets	Dimensions and Tolerances	IS 9283 CL No.7
15	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible Pump sets	Finish Test/ bearing or roughness Test	IS 9283 CL No.5.5
16	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible Pump sets	High Voltage Test	IS 9283 Cl No.16.1 (b)
17	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	Measurement of Stator Resistance	IS 9283 Cl No.16.1 (c)
18	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	Insulation Registance Test	IS 9283 Cl No.16.1 (a)

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19	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	Lock Rotor Test	IS 9283 Cl No.16.1 (f)
20	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	Lock Rotor Test	IS 9283 Cl No.16.1 (f)
21	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	Lock Rotor Test	IS 9283 Cl No.16.1 (f)
22	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	Lock Rotor Test	IS 9283 Cl No.16.1 (f)
23	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	No Load test at Rated Voltage	IS 9283 Cl No.16.1 (d)
24	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	No Load test at Rated Voltage	IS 9283 Cl No.16.1 (d)
25	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	No Load test at Rated Voltage	IS 9283 Cl No.16.1 (d)
26	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	No Load test at Rated Voltage	IS 9283 Cl No.16.1 (d)
27	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	No Load test at Reduced Voltage	IS 9283 Cl No.16.1 (e)
28	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	No Load test at Reduced Voltage	IS 9283 Cl No.16.1 (e)
29	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	No Load test at Reduced Voltage	IS 9283 Cl No.16.1 (e)
30	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	No Load test at Reduced Voltage	IS 9283 Cl No.16.1 (e)
31	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	Temperature rise test at rated Voltage	IS 9283 Cl No.16.1 (j)
32	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Motors for submersible pumpsets	Temperature rise test at Reduced Voltage	IS 9283 Cl No.16.1 (k)
33	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well Submersible Pump sets	Balancing of rotor/ Balancing of Impeller, General Requirement	IS 14220 Cl No.10
34	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Cable	IS 14220 Cl No.12
35	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Constructional Features	IS 14220 Cl No.7
36	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Design Features	IS 14220 Cl No.8
37	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Direction of rotation	IS 14220 Cl No.10.7

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38	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Leakage Current Test	IS 14220 Cl No.14.5
39	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
40	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
41	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
42	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
43	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
44	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Marking / Rating Plate	IS 14220 Cl No.18
45	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Measurement of Stator Resistance	IS 14220 Cl No.14.10.1(c)
46	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	No Load test at Rated Voltage	IS 14220 Cl No.14.10.1(d)
47	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	No Load test at Rated Voltage	IS 14220 Cl No.14.10.1(d)
48	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	No Load test at Rated Voltage	IS 14220 Cl No.14.10.1(d)
49	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	No Load test at Rated Voltage	IS 14220 Cl No.14.10.1(d)
50	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	No Load test at Rated Voltage	IS 14220 Cl No.14.10.1(d)
51	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	No Load Test at Reduced Voltage	IS 14220 Cl No.14.10.1(e)
52	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	No Load Test at Reduced Voltage	IS 14220 Cl No.14.10.1(e)
53	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	No Load Test at Reduced Voltage	IS 14220 Cl No.14.10.1(e)
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	No Load Test at Reduced Voltage	IS 14220 Cl No.14.10.1(e)
56	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Openwell Submersible Motors	IS 14220 Cl No.13

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57	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Provision for Earthing	IS 14220 Cl No.10.6
58	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Pumpset &Motor Performance	IS 14220 Cl No.9, 14, 15, 16
59	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Pumpset &Motor Performance	IS 14220 Cl No.9, 14, 15, 16
60	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Pumpset &Motor Performance	IS 14220 Cl No.9, 14, 15, 16
61	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Pumpset &Motor Performance	IS 14220 Cl No.9, 14, 15, 16
62	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Pumpset &Motor Performance	IS 14220 Cl No.9, 14, 15, 16
63	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Pumpset &Motor Performance	IS 14220 Cl No.9, 14, 15, 16
64	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Pumpset &Motor Performance	IS 14220 Cl No.9, 14, 15, 16
65	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Pumpset &Motor Performance	IS 14220 Cl No.9, 14, 15, 16
66	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Surface Finish Test / Bearing or roughness Test	IS 14220 Cl No.10.4.2
67	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Tempreture rise test at reduced Voltage	IS 14220 Cl No.14.6.6
68	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Tempreture rise test at reduced Voltage	IS 14220 Cl No.14.6.6
69	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Tempreture rise test at reduced Voltage	IS 14220 Cl No.14.6.6
70	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Tempreture rise test at reduced Voltage	IS 14220 Cl No.14.6.6
71	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Tempreture rise test at reduced Voltage	IS 14220 Cl No.14.6.6
72	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Terminal Marking	IS 14220 Cl No.10.7
73	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Dimensions and Tolerances	IS 14220 Cl No.11
74	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	High Voltage Test	IS 14220 Cl No.14.4
75	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Insulation Resistance Test	IS 14220 Cl No.14.3

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76	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Temperature rise test at rated Voltage	IS 14220 Cl No.14.6.5
77	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Openwell Submersible Pumpsets	Temperature rise test at rated Voltage	IS 14220 Cl No.14.6.5
78	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Balancing of rotor / Balancing of Impeller	IS 8034 Cl No.8.5
79	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Constructional Features	IS 8034 Cl No.6
80	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Design Feature	IS 8034 Cl.No.7
81	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Direction of Rotation	IS 8034 Cl.No.8.7
82	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	General Requirement	IS 8034 Cl.No.8
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	Locked rotor test / Breakaway (starting) Torque Test	IS 8034 Cl.No.9.7 & 9.10 (f & g)
86	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Locked rotor test / Breakaway (starting) Torque Test	IS 8034 Cl.No.9.7 & 9.10 (f & g)
87	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Locked rotor test / Breakaway (starting) Torque Test	IS 8034 Cl.No.9.7 & 9.10 (f & g)
88	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Locked rotor test / Breakaway (starting) Torque Test	IS 8034 Cl.No.9.7 & 9.10 (f & g)
89	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	locked rotor Test	IS 8034 Cl.No.9.9 (d)
90	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	locked rotor Test	IS 8034 Cl.No.9.9 (d)
91	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	locked rotor Test	IS 8034 Cl.No.9.9 (d)
92	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	locked rotor Test	IS 8034 Cl.No.9.9 (d)
93	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	locked rotor Test	IS 8034 Cl.No.9.9 (d)
94	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Measurement of Shaft Extension	IS 8034 Cl No.8.4.1

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95	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Measurement of Stator Resistance	IS 8034 Cl.No.9.10(c)
96	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	No Load running of motor at Rated Voltage	IS 8034 Cl.No.9.10(d)
97	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	No Load running of motor at Rated Voltage	IS 8034 Cl.No.9.10(d)
98	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	No Load running of motor at Rated Voltage	IS 8034 Cl.No.9.10(d)
99	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	No Load running of motor at Rated Voltage	IS 8034 Cl.No.9.10(d)
100	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	No Load Testing at Reduced Voltage	IS 8034 Cl No.9.10(e)
101	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	No Load Testing at Reduced Voltage	IS 8034 Cl No.9.10(e)
102	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	No Load Testing at Reduced Voltage	IS 8034 Cl No.9.10(e)
103	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	No Load Testing at Reduced Voltage	IS 8034 Cl No.9.10(e)
104	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Provision for Earthing	IS 8034 Cl.8.9.4
105	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Pumpset Performance Test	IS 8034 Cl.No.10, 11, 12, 13
106	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Pumpset Performance Test	IS 8034 Cl.No.10, 11, 12, 13
107	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Pumpset Performance Test	IS 8034 Cl.No.10, 11, 12, 13
108	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Pumpset Performance Test	IS 8034 Cl.No.10, 11, 12, 13
109	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Pumpset Performance Test	IS 8034 Cl.No.10, 11, 12, 13
110	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Pumpset Performance Test	IS 8034 Cl.No.10, 11, 12, 13
111	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Pumpset Performance Test	IS 8034 Cl.No.10, 11, 12, 13
112	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Pumpset Performance Test	IS 8034 Cl.No.10, 11, 12, 13
113	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Surface finish test / Bearing or Roughness Test	IS 8034 Cl.No.8.4.2

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114	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Temperature rise test at reduced Voltage	IS 8034 Cl.No.9.5.3
115	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Typical Installation	IS 8034 Cl.No.8.9
116	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Verification of Marking and Rating Plate	IS 8034 Cl.No.14.1
117	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Verification of Terminal Marking	IS 8034 Cl.No.8.8
118	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	High Voltage Test	IS 8034 Cl.No.9.3
119	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Temperature rise test at Rated Voltage	IS 8034 Cl.No.9.5.2
120	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Temperature rise test at Rated Voltage	IS 8034 Cl.No.9.5.2
121	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Temperature rise test at reduced Voltage	IS 8034 Cl.No.9.5.3
122	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Temperature rise test at reduced Voltage	IS 8034 Cl.No.9.5.3
123	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Temperature rise test at reduced Voltage	IS 8034 Cl.No.9.5.3
124	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Visual inspection	IS 8034 Cl.No.8.10
125	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Visual inspection	IS 8034 Cl.No.8.6
126	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible Pumpsets	Insulation Resistance Test	IS 8034 Cl No.9.2