National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	TECHLAB TESTING AND RESEARCH INSTITUTE PRIVATE LIMITED, PLOT NO. F-19, MIDC AREA, BHUSAWAL, JALGAON, MAHARASHTRA, 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	AC/DC Standalone Solar Powered Agricultural Water Pumps (0.25 hp to 0.5 hp)	Measurement of Head	MNRE-SPV Water Pumping Systems for Micro Pumping Application
2	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Agricultural Water Pumps (0.25 hp to 0.5 hp)	Per Day Water Flow Test	MNRE-SPV Water Pumping Systems for Micro Pumping Application
3	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Agricultural Water Pumps (0.25 hp to 0.5 hp)	Total Water Output Per Day for performance tests (a) hot profile performance test (b) cold profile performance test (c) outdoor performance test	MNRE-SPV Water Pumping Systems for Micro Pumping Application
4	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Agricultural Water Pumps (0.25hp to 0.5 hp)	Protection test (a) dry run test (b) reverse polarity test (c) open circuit / no-load test (d) output short-circuit test	MNRE-SPV Water Pumping Systems for Micro Pumping Application
5	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Agricultural Water Pumps (1 hp to 10 hp)	System performance diagrams: Q-H, Q-P, P-G & G-T diagrams and Total Water Output	IEC 62253 Cl.No.5.3,6
6	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Agricultural Water Pumps (1 hp to 25 hp)	Constructional Features	MNRE Specifications for solar photovoltaic water pumping systems, Annexure –A of circular no. F.no. 41/3/2018 SPV Division dated 22.03.2023
7	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Agricultural Water Pumps (1 hp to 25 hp)	Measurement of Head	MNRE, guidelines on testing procedure for solar photovoltaic water pumping systems, Annexure –B of circular no. F.no. 41/3/2018-SPV division dated 22.03.2023
8	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Agricultural Water Pumps (1 hp to 25 hp)	Measurement of Rate of Flow	MNRE, guidelines on testing procedure for solar photovoltaic water pumping systems, Annexure –B of circular no. F.no. 41/3/2018-SPV division dated 22.03.2023
9	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Agricultural Water Pumps (1 hp to 25 hp)	Per Day Water Flow Test for Submersible and Surface Pumps	MNRE, guidelines on testing procedure for solar photovoltaic water pumping systems, Annexure –B of circular no. F.no. 41/3/2018-SPV division dated 22.03.2023

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10	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Agricultural Water Pumps (1 hp to 25 hp)	Performance Requirements	MNRE Specifications for solar photovoltaic water pumping systems, Annexure –A of circular no. F.no. 41/3/2018 SPV Division dated 22.03.2023
11	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Agricultural Water Pumps (1 hp to 25 hp)	Protection test (a) dry run test (b) open circuit (c) Accidental Output short circuit (d) Under voltage (e) reverse polarity test (f) Surge protection to arrest high current surge	MNRE, guidelines on testing procedure for solar photovoltaic water pumping systems, Annexure –B of circular no. F.no. 41/3/2018-SPV division dated 22.03.2023
12	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Agricultural Water Pumps (1 hp to 25 hp)	Remote Monitoring System Verification	MNRE, guidelines on testing procedure for solar photovoltaic water pumping systems, Annexure –B of circular no. F.no. 41/3/2018-SPV division dated 22.03.2023
13	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Agricultural Water Pumps (1 hp to 25 hp)	Solar Radiation Measurement	MNRE, guidelines on testing procedure for solar photovoltaic water pumping systems, Annexure –B of circular no. F.no. 41/3/2018-SPV division dated 22.03.2023
14	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Agricultural Water Pumps (1 hp to 25 hp)	Total water output per day for performance tests (a) hot profile performance test (b) cold profile performance test (c) outdoor performance test	MNRE, guidelines on testing procedure for solar photovoltaic water pumping systems, Annexure –B of circular no. F.no. 41/3/2018-SPV division dated 22.03.2023
15	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Agricultural Water Pumps (1 hp to 25 hp)	Use of other brand of Solar Modules	MNRE, guidelines on testing procedure for solar photovoltaic water pumping systems, Annexure –B of circular no. F.no. 41/3/2018-SPV division dated 22.03.2023
16	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Agricultural Water Pumps (1 hp to 25 hp)	Water Output Per Day Per Watt Peak	MNRE, guidelines on testing procedure for solar photovoltaic water pumping systems, Annexure –B of circular no. F.no. 41/3/2018-SPV division dated 22.03.2023
17	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AC/DC Standalone Solar Powered Micro Water Pumps (1 hp)	Total water output per day for performance tests (a) hot profile performance test (b) cold profile performance test (c) outdoor performance test	MNRE Test Method for Water Pumping System

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18	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System (0.25 hp to 0.5 hp)	Measurement of Rate of Flow	MNRE-SPV Water Pumping Systems for Micro Pumping Application
19	ELECTRONICS-MISCELLANEOUS PRODUCTS	AC/DC Pump Controller and other Electronic devices	IP54, 65, 66 & 67	IEC 60529, Cl.No. 13.4,13.5,13.6,14.2.5,14.2.6,14.2.7,14.3
20	ELECTRONICS-MISCELLANEOUS PRODUCTS	AC/DC Pump Controller and other Electronic devices	IP54, 65, 66 & 67	IS 60529, Cl.No. 13.4,13.5,13.6,14.2.5,14.2.6,14.2.7,14.3
21	ELECTRONICS-MISCELLANEOUS PRODUCTS	Bi-Facial Photovoltaic Module	I-V Characterisation	IS 12762 (Part 1/ Sec 2) Cl.No.7
22	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic Modules (Thin-film Amorphous Silicon)	Visual inspection (Inspection of visual defects, MQT 01)	IS 14286 (Part 1/Sec 3) Cl.No.11.1
23	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic Modules (Thin-film Amorphous Silicon)	Maximum Power Determination; Measurement of Temperature Coefficients; Performance at STC; Performance at NMOT; Performance at Low Irradiance; Stabilization	IS 14286 (Part 1/Sec 3) Cl. No.11.2, 11.4, 11.6, 11.7, 11.19
24	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic Modules (Thin-film Amorphous Silicon)	Insulation Test	IS 14286 (Part 1/ Sec 3) Cl. 11.3
25	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic Modules (Thin-film Cadmium Telluride (CdTe))	Insulation Test	IS 14286 (Part 1/Sec 2) Cl. 11.3
26	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic Modules (Thin-film Cadmium Telluride (CdTe))	Visual inspection (Inspection of visual defects, MQT 01)	IS 14286 (Part 1/Sec 2) Cl.No. 11.1
27	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic Modules (Thin-film Cadmium Telluride(CdTe))	Maximum Power Determination; Measurement of Temperature Coefficients; Performance at STC; Performance at NMOT; Performance at Low Irradiance; Stabilization	IS 14286 (Part 1/Sec 2) Cl.No.11.2, 11.4, 11.6, 11.7, 11.19
28	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Detection of PID – 288 Hrs	MNRE-F.No. 313-12/9/2019

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29	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Detection of Potential-Induced Degradation	IEC TS 62804 -1 Cl. No.4.1,4.2,4.3,4.4
30	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Detection of Potential-Induced Degradation	IS 17210 Part 1 Cl. No.4.1,4.2,4.3,4.4
31	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Detection of Potential-Induced Degradation after application of Voltage Stress	IEC TS 62804 -1-1 Cl. no. 5
32	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Determination of Bifacialities	IEC TS 60904-1-2 Cl. no. 6.2
33	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Determination of the Rear Irradiance Driven Power Gain Yield	IEC TS 60904-1-2 Cl. no. 6.3
34	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Insulation Test	IEC 61215-1-1 Cl. no. 11.3
35	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Insulation Test	IEC 61215-2 Cl. No. 4.3
36	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Insulation Test	IEC 61215-2 Cl. no. 4.3: 2016 (Withdrawn standard)
37	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Insulation Test	IS 14286 Cl. no. 10.3
38	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Insulation Test	IS 14286 Part 1 Sec 1 Cl. no. 11.3
39	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Insulation Test	IS 14286 Part 2 Cl. no. 4.3
40	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	I-V Characterisation of Bifacial Photovoltaic Module	IS 12762 Part 1 Sec 2 Cl. no. 6.1
41	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	I-V Characteristics Test - Performance at STC	IS 12762 Part1 Sec 1
42	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	I-V Characterization of Bifacial PV Devices in Practice	IEC TS 60904 Part1 Sec 2 Cl. no. 7

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43	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Maximum Power Determination	IEC 61215-1-1 Cl.No. 11.2
44	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Maximum Power Determination	IEC 61215-2 Cl. no. 4.2
45	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Maximum Power Determination	IEC 61215-2: 2016 Cl. No.4.2 (Withdrawn standard)
46	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Maximum Power Determination	IS 14286 (Part 1/Sec 1) Cl. no. 11.2
47	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Maximum Power Determination	IS 14286 Cl. 10.2
48	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Maximum Power Determination	IS 14286-2 Cl. no. 4.2
49	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Measurement of Temperature Coefficient	IEC 61215-1-1 Cl. no. 11.4
50	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Measurement of Temperature Coefficient	IEC 61215-2 Cl. no. 4.4
51	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Measurement of Temperature Coefficient	IEC 61215-2 Cl. no. 4.4
52	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Measurement of Temperature Coefficient	IS 14286 -1-1 Cl. 11.4
53	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Measurement of Temperature Coefficient	IS 14286 Cl. no. 10.4
54	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Measurement of Temperature Coefficient	IS 14286-2 Cl. no. 4.4
55	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Performance at Low Irradiance	IEC 61215-1-1 Cl.No. 11.7
56	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Performance at Low Irradiance	IEC 61215-2 Cl.No.4.7

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57	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Performance at Low Irradiance	IEC 61215-2 Cl.No.4.7
58	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Performance at Low Irradiance	IS 14286 Cl. No.10.7
59	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Performance at Low Irradiance	IS 14286(Part-2):Cl.No.4.7
60	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Performance at Low Irradiance	IS 14286-1-1 Cl. No.11.7
61	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Performance at STC	IEC 61215-1-1 Cl.No. 11.6
62	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Performance at STC	IEC 61215-2 Cl.No. 4.6
63	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Performance at STC and NMOT	IEC 61215-2 Cl.No.4.6
64	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Performance at STC and NMOT	IS 14286 (Part1/Sec1) Cl. No.11.6
65	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Performance at STC and NMOT	IS 14286(Part-2) Cl.No.4.6
66	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Performance at STC and NOCT	IS 14286 Cl. No.10.6
67	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Potential Induced Degradation Test	IEC 61215-2 Cl.No.4.21
68	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Power Rating Conditions, Rating of Power Procedure for Irradiance and Temperature Performance Measurements	IEC 61853-1 Cl.No.7,8
69	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Preconditioning Test	IS 14286 Cl. No.5

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70	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Solar Photovoltaic Module I-V Characteristics Test - Performance at STC	IEC 60904-1-1
71	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Stabilization	IEC 61215-1-1 Cl No 11.19
72	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Stabilization	IEC 61215-2 Cl. No. 4.19
73	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Stabilization	IEC 61215-2 Cl. No.4.19
74	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Stabilization	IS 14286 -1-1 Cl. No. 11.19
75	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Stabilization	IS 14286-2 Cl. No. 4.19
76	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Visual Inspection	IEC 61215-1-1 Cl. No. 11.1
77	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Visual Inspection	IEC 61215-2 Cl.No. 4.1
78	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Visual Inspection	IEC 61215-2 Cl.No. 4.1, 2016 (Withdrawn Standard)
79	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Visual Inspection	IS 14286 -1-1 Cl. No. 11.1
80	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Visual Inspection	IS 14286 Cl.No. 10.1
81	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Visual Inspection	IS 14286-2 Cl. No. 4.1
82	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Wet Leakage Current Test	IEC 61215-1-1 Cl.No.11.15
83	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Wet Leakage Current Test	IEC 61215-2 Cl.No.4.15

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84	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Wet Leakage Current Test	IEC 61215-2 Cl.No.4.15
85	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Wet Leakage Current Test	IS 14286 (Part1/Sec1) Cl. No.11.15
86	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Wet Leakage Current Test	IS 14286 Cl. No.10.15
87	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Module	Wet Leakage Current Test	IS 14286(Part-2) Cl.No.4.15
88	ELECTRONICS-MISCELLANEOUS PRODUCTS	Terrestrial Photovoltaic Modules Thin-film Cu (In, Ga) (S, Se)2	Visual inspection (Inspection of Visual Defects, MQT 01)	IS 14286 (Part 1/Sec 4) Cl. 11.1
89	ELECTRONICS-MISCELLANEOUS PRODUCTS	Terrestrial Photovoltaic Modules Thin-film Cu (In, Ga) (S,Se)2	Insulation Test	IS 14286 (Part 1/Sec 4) Cl. 11.3
90	ELECTRONICS-MISCELLANEOUS PRODUCTS	Terrestrial Photovoltaic Modules Thin-film Cu (In, Ga) (S,Se)2	Maximum Power Determination; Measurement of Temperature Coefficients; Performance at STC; Performance at NMOT; Performance at Low Irradiance; Stabilization	IS 14286 (Part 1/Sec 4) Cl. no. Cl.No. 11.2, 11.4, 11.6, 11.7, 11.19