National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CSIR-CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, JAIPUR CENTRE, CFC-1, MALVIYA INDUSTRIAL AREA, JAIPUR, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10005 **Page No** 1 of 2

Validity 18/10/2021 to 17/10/2023 **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	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Converter	Static Conversion Efficiency	EN 50530 CL. 4.5
2	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Converters	Energy Efficiency	IS/IEC 61683 CL. 5.3
3	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Converters	Partial Output Efficiency	IS/IEC 61683 CL.5.2
4	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Converters	Rated Output Efficiency	IS/IEC 61683 CL.5.1
5	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Current Rating	IEC 61727 CL.4.1
6	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	DC Current Injection	IEC 61727 CL.4.4
7	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Dynamic MPPT Test	EN50530 CL.4.4
8	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Frequency	IEC 61727 CL.4.1
9	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Harmonics/Total Harmonic Distortion	IEC 61727 CL.4.6
10	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	No Load Test	IS/IEC 61683 CL. 7.1
11	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Overall Efficiency	EN50530 CL. 5.0
12	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Power Factor at 50% Load	IEC 61727 CL.4.7
13	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Reconnection Time after Utility Recovery	IEC 61727 CL.5.4

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14	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Standby Loss	IS/IEC 61683 CL.7.2
15	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Static MPPT Test	EN50530 CL.4.3
16	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Tripping Time during over/under voltage	IEC 61727 CL.5.2.1
17	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Tripping Time under Over Frequency/Under Frequency	IEC 61727 CL.5.2.2
18	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Utility Interconnected Photovoltaic Inverters- Test Procedure of Islanding Prevention Measures	IS 16169
19	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Utility-interconnected photovoltaic inverters - Test procedure of islanding prevention measures	IEC 62116
20	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Voltage Rating	IEC 61727 CL.4.1
21	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Weighted Efficiencies	EN50530 CL4.5.3