Scope of Accreditation for Calibration

As per ISO/IEC 17025:2017

CAB Name: Bharat Test House Pvt. Ltd.

Address: 1474, HSIIDC Industrial Estate, Rai, District Sonipat- 131029, Haryana

Certificate No.: C-0017

Issue date : 26.05.2026
Validity : 25.05.2030
Amendment date: 03.06.2026

Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
Discipline - Optical, Group - Optical					
1	Measurement of photovoltaic current-voltage characteristics, (Short-circuit current) of Solar cells / Solar PV Module (Golden & Silver etc.) / Photovoltaic Devices	0.16 mA to 35.4 A	Using by Sun Simulator and reference cell by comparison method	0.17 mA to 0.89 A	Permanent
2	Measurement of photovoltaic current-voltage characteristics, (Open-circuit voltage) of Solar cells / Solar PV Module (Golden & Silver etc.) / Photovoltaic Devices	0.56 V to 200 V	Using by Sun Simulator and reference cell by comparison method	0.0045 V to 4.97 V	Permanent
3	Measurement of photovoltaic current-voltage characteristics, (Maximum power) of Solar cells / Solar PV Module (Golden & Silver etc.) / Photovoltaic Devices	6.4 mW to 1000 W	Using by Sun Simulator and reference cell by comparison method	0.12 mW to 24.22 W	Permanent
4	Measurement of photovoltaic current-voltage characteristics, (Fill factor) of Solar cells / Solar PV Module (Golden & Silver etc.) / Photovoltaic Devices	0% to 100%	Using by Sun Simulator and reference cell by comparison method	0.77 % to 0.70 %	Permanent

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5	Measurement of photovoltaic current-voltage characteristics, (Efficiency) of Solar cells / Solar PV Module (Golden & Silver etc.) / Photovoltaic Devices	0.01% to 100%	Using by Sun Simulator and reference cell by comparison method	0.0002 % to 0.47 %	Permanent
6	Measurement of photovoltaic current-voltage characteristics, (Shunt voltage) of Solar cells / Solar PV Module (Golden & Silver etc.) / Photovoltaic Devices	Up to 100 V	Using by Sun Simulator and reference cell and data collector by comparison method	0.81 V	Permanent
7	Measurement of photovoltaic current-voltage characteristics, (Spectral irradiance responsivity @Wavelength) of Solar cells / Solar PV Module (Golden & Silver etc.) / Photovoltaic Devices	200 nm to 1200 nm	Using by Sun Simulator and reference cell and data collector by comparison method	49.21 nm	Permanent
8	Measurement of photovoltaic current-voltage characteristics, (Spectral irradiance) of Solar cells / Solar PV Module (Golden & Silver etc.) / Photovoltaic	280 nm to 1600 nm	Using by Standard lamp & Spectro radiometer by Direct method	4.23 $\mu W/m^2$ to 48.48 $\mu W/m^2$	Permanent/Site

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Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
	Devices/Pyranometer/ Irradiance Meter etc.				
9	Measurement of Wavelength of Photovoltaic Devices/Pyranometer/ Irradiance Meter etc.	280 nm to 1600 nm	Using by Spectroradiometer and Standard lamp by comparison method	4.23 nm to 48.48 nm	Permanent/Site
10	Illuminance Meter/Lux Meter	1 lux to 128000 lux	Using by Digital Lux Meter by comparison method	0.12 lux to 7716 lux	Permanent
11	Measurement of Solar Irradiance of Photovoltaic Devices/Pyranometer/ Irradiance Meter etc	1 W/m² to 1000 W/m²	Using by Sun simulator and Pyranometer by comparison method	0.015 W/m² to W/m² to 15.2 W/m²	Permanent
12	Measurement of photovoltaic current-voltage characteristics, (Bifaciality coefficient current) of Solar cells / Solar PV Module (Golden & Silver etc.) / Photovoltaic Devices	0% to 100 %	Using by Sun Simulator and reference cell by comparison method	0.9 %	Permanent
13	Measurement of photovoltaic current-voltage characteristics, (Bifaciality coefficient Voltage) of Solar cells / Solar PV Module (Golden & Silver etc.) / Photovoltaic Devices	0% to 100 %	Using by Sun Simulator and reference cell by comparison method	0.9 %	Permanent

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Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
14	Measurement of photovoltaic current-voltage characteristics, (Bifaciality coefficient Power) of Solar cells / Solar PV Module (Golden & Silver etc.) / Photovoltaic Devices	0 % to 100 %	Using by Sun Simulator and reference cell by comparison method	1.0 %	Permanent
15	Measurement of photovoltaic current-voltage characteristics, (Performance gains through backside radiation (BiFi)) of Solar cells / Solar PV Module (Golden & Silver etc.) / Photovoltaic Devices	0 W/m^2 to 10 W/m^2	Using by Sun Simulator and reference cell by comparison method	8.1 %	Permanent