

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**

**UNSTARRED QUESTION NO. 4446**

ANSWERED ON 20/08/2025

**PHOTOVOLTAIC MODULE TESTING AND CALIBRATION LAB**

4446. SHRI KAMAKHYA PRASAD TASAs  
DR. SANJAY JAISWAL

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) the details of objectives and capabilities of the new PV Module Testing and Calibration Lab at National Institute of Solar Energy (NISE);
- (b) the manner in which the NISE support domestic solar manufacturing under the Productive Linked Incentive (PLI) scheme through Bureau of Indian Standards (BIS)-compliant testing and certification of emerging solar technologies;
- (c) the details of increase in India's installed solar capacity and indigenous manufacturing since 2014 along with the targets set for the year 2030; and
- (d) the details of NISE's workforce development initiatives including the number of Suryamitras trained so far?

**ANSWER**

**THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER**

**(SHRI SHRIPAD YESSO NAIK)**

(a) The objective of the test facility at National Institute of Solar Energy (NISE) is to conduct testing of photovoltaic (PV) modules and issuing reports in accordance with various Indian and international standards. NISE is also offering testing and calibration for various IS/IEC standards.

(b) NISE provides technical support for qualitative and testing requirements under the Production Linked Incentive (PLI) scheme for setting up Manufacturing Capacities for High Efficiency Solar PV Modules in the country. The role of NISE also includes conducting commissioning checks and throughput assessment at the manufacturing facilities, as well as testing of module efficiency and temperature coefficient as per relevant BIS standards.

(c) As on 31.03.2014, the installed solar capacity of the country was ~2.82 GW, which has increased to ~119.02 GW as on 31.07.2025.

The installed solar PV module manufacturing capacity in the country in 2014 was around 2.3 GW which has increased to around 91.6 GW as of 31.07.2025, as per the Approved List of Models & manufacturers (ALMM).

(d) NISE through the Suryamitra Skill Development Programme has so far trained 63,713 nos. of Suryamitra technicians.

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