

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 4154**  
TO BE ANSWERED ON 11.08.2016  
**SETTING UP OF NISE**

4154. SHRI ANIL SHIROLE:

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

- (a) whether the Government has set up a National Institute of Solar Energy;
- (b) if so, the details thereof along with its aims and objectives; and
- (c) the steps taken by the Government to support and accelerate the process of induction of the latest solar energy technologies to ensure maximum cost benefit and their early commercialisation in the country especially in Maharashtra?

**ANSWER**

MINISTER OF STATE FOR POWER, COAL , NEW & RENEWABLE ENERGY & MINES  
(SHRI PIYUSH GOYAL)

**(a) and (b):** The Government has set up “National Institute of Solar Energy” by converting the existing ‘Solar Energy Center’ at Gurgaon, with its Headquarters and Research facilities at Gwal Pahari Village, District Gurgaon (Haryana). The Society, namely National Institute of Solar Energy (NISE), has been registered on 28/10/2013 under the Haryana Registration and Regulation of Societies Act 2012 (Haryana Act No.1 of 2012). NISE has been working as an apex National R&D Centre in Solar Energy and is coordinating research & technology development and other related works envisaged under the Jawaharlal Nehru National Solar Mission (JNNSM). The objectives and its functions are given in the Annexure.

**(c):** In Research and Development for Solar, Ministry of New and Renewable Energy (MNRE) provides 50% grant to industry for research. In addition, MNRE has sanctioned 4 Centers of Excellence in Solar Energy research in the country including in Maharashtra with the details as under:-

1. National Centre for Photovoltaic Research and Education (NCPRE) at IIT Bombay in “Crystalline Si solar cells, education and training”:
2. Indian Institute of Engineering Science and Technology (IEST), Kolkata in “Thin silicon solar cells and photovoltaic systems”:
3. Center for Environmental Planning and Technology (CEPT), Ahmedabad in “Area of solar passive architecture and green building technologies”:
4. IIT Jodhpur, Rajasthan in “Solar Thermal Research and Education”.

Besides supporting Research and Development of Solar through various institutes, MNRE is also encouraging innovative technologies by way of pilot-cum-demonstration projects e.g. “Scheme for Development of Solar PV Power Plants on Canal Banks/ Canal Tops”, to help in early commercialization of such initiatives.

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**ANNEXURE**

**ANNEXURE REFERRED TO IN REPLY TO PARTS (a) AND (b) OF LOK SABHA  
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**OBJECTIVES AND FUNCTIONS OF THE NISE:**

- Assist the MNRE in implementing the National Solar Mission (NSM).
- Responsible for providing thrust to R&D in solar energy and related technologies under the NSM.
- Undertake R&D projects on different aspects of solar energy technologies, hybrid systems and storage techniques/systems.
- Act as the Secretariat for the work of the R&D Advisory Council. Facilitate the development of a technology roadmap and coordination with the other Centers of Excellence under the Mission, R&D projects in solar energy and other S&T Ministries.
- Bridge the gap between existing R&D institutions and Industry, and get the Industry on board, through partnership programmes and projects.
- To carry out Solar Resource Assessment
- To develop Test and standardization procedures of Solar Energy Systems and carry out Testing and Performance evaluation of solar photovoltaic and thermal systems and devices and issue certificates.
- To undertake various training and skill development programmes of various levels
- Co-ordinate the 'Suryamitra' Skill development Programme at National level and organise Training Programme for 'Suryamitras' at NISE.
- To establish Solar Energy Training Network (SETNET) and to provide consultancy for SPV and ST projects.
- Collaborate with the international S&T organizations and keep track of latest global developments based on technology forecasting and fore sighting
- Support capacity building and support students, teachers and research personnel to work for higher degrees including Ph.D.