

GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP
RAJYA SABHA
UNSTARRED QUESTION NO - 1074
ANSWERED ON – 04.12.2024

STRENGTHENING APPRENTICESHIP PROGRAMME

1074. SHRI JAGGESH:

Will the Minister of SKILL DEVELOPMENT AND ENTREPRENEURSHIP be pleased to state:

- (a) whether it is a fact that there is a glaring skill gap of more than million jobs in the renewable energy sector;
- (b) what is the approximate number of job creation in the sector over the next three years and the number of deemed employable from the current pool of engineering graduates;
- (c) whether Government proposes for skilling/reskilling and strengthening apprenticeship programme to meet work force demands; and
- (d) if so, the details thereof, and by when Government will start skilling/ reskilling programme, the details thereof?

ANSWER

THE MINISTER OF STATE (INDEPENDENT CHARGE) IN THE MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP

(SHRI JAYANT CHAUDHARY)

(a) and (b) Renewable Energy sector has huge potential of job creation based on the targets of the Ministry of New and Renewable Energy (MNRE) of achieving 500 GW Renewable energy capacity by 2030. Based on information from Council on Energy, Environment and Water (CEEW) and other agencies, the renewable energy sector is projected to create about 28 lakhs jobs between August 2024 and March 2030 including 18 lakh jobs in the next three years. A significant part of the requirement is expected to be met by engineering graduates.

(c) and (d) Under the flagship scheme of Ministry of Skill Development and Entrepreneurship (MSDE), Pradhan Mantri Kaushal Vikas Yojana (PMKVY), so far 2,55,766 candidates have been trained across 26 job roles in the renewable energy sector till 31.10.2024. The details are given at **Annexure**.

Further, to meet the growing demand for renewable energy and sustainable technologies, Directorate General of Training under MSDE has introduced specialized courses in the areas of solar, hydro and wind energy as well as electric vehicles under Craftsmen Training Scheme (CTS) through Industrial Training Institutes (ITIs) and National Skill Training Institutes (NSTIs).

Apprenticeship training is also one of the key components for creating skilled manpower in India and contributes to ‘Skill India’. Various reforms, including amendments in 2014 to the

Apprentices Act, 1961 and the Rules in 2019 and launch of National Apprenticeship Promotion Scheme (NAPS) have been carried out to facilitate the establishments to engage number of apprentices in August 2016.

MNRE has initiated skill development programmes under short term training programme components such as Suryamitra Programme (Solar PV technician) and varunmitra (Solar water pumping Technician) training programme in solar, Vayumitra (Wind Power Plant Technician) programme in wind and Jalurjamitra (Small Hydro Power Technician) programme in Small Hydro Power areas for operation and maintenance of the projects.

Under Prime Minister Surya Ghar Muft Bijli Yojana (PMSGMBY), the Government aims to create more than three lakh skilled manpower through skilling and upskilling including one lakh as solar technicians. Skilled manpower for Green Hydrogen Sector under the National Green Hydrogen Mission (NGHM) is being created through a Scheme on skilling, up-skilling and re-skilling under NGHM.

**ANNEXURE REFERRED TO IN REPLY TO PART (c and d) OF RAJYA SABHA
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The details of job roles under PMKVV in the renewable energy sector till 31.10.2024:

S.No.	Job Role Name (PMKVV)	Total Trained / Oriented	Total Assessed	Total Certified
1.	Advance Course on Green Hydrogen	332	293	291
2.	Assistant Technician- Solar Panel Installation	4,298	2,753	2,528
3.	Concepts of Green Hydrogen	59	36	36
4.	Green Hydrogen Plant Entrepreneur	16	-	-
5.	Hand Spinning Operator -Solar Operated New Model Charkha	320	157	157
6.	Junior Technician- Solar EV charging station	90	23	23
7.	O&M Electrical & Instrumentation Technician- Wind Power Plant	160	-	-
8.	Rooftop Solar Grid Engineer	598	376	363
9.	Small Hydro Power Plant Technician-(Jal Urja Mitra)	150	103	92
10.	Solar EV Charging Entrepreneur	-	-	-
11.	Solar LED Technician	27,499	17,947	16,746
12.	Solar Lighting Assembler (Elective: Home Lighting System/ Street Lights)	4,765	3,896	3,739
13.	Solar Panel Installation Technician	1,04,520	93,263	82,612
14.	Solar Photovoltaic Entrepreneur	1,670	1,520	1,443
15.	Solar Proposal Evaluation Specialist	360	278	273

16.	Solar Pump Technician	36,158	26,393	23,622
17.	Solar PV Business Development Executive	626	111	104
18.	Solar PV Designer	1,896	1,277	1,239
19.	Solar PV Engineer (Option: Solar Water Pumping System)	-	-	-
20.	Solar PV Installer - Civil	1,542	1,311	1,253
21.	Solar PV Installer - Electrical	18,431	16,206	15,321
22.	Solar PV Installer (Suryamitra)	48,464	39,149	37,157
23.	Solar PV Maintenance Technician - Electrical (Ground Mount)	1,809	1,046	1,001
24.	Solar PV Manufacturing Technician	279	220	220
25.	Solar PV Project Helper	1,537	1,253	1,210
26.	Solar PV Project Manager (E&C)	187	66	64
	Grand Total	2,55,766	2,07,677	1,89,494
