

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO-590**  
ANSWERED ON-22/07/2021

**SOLAR PUMPS TO FARMERS**

590. SHRI JANARDAN SINGH SIGRIWAL

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

- (a) whether the Government has any scheme to provide solar pumps to farmers in the country, if so, the details and salient features thereof;
- (b) the number of solar pumps installed under various schemes in this regard, State/UT-wise including Bihar;
- (c) the details of the amount received by farmers who have installed these solar pumps, State-wise;
- (d) the distribution of the amount of surplus electricity that has been sold by farmers to DISCOMs under these schemes, State/UT-wise; and
- (e) the details of the 'dark zones' identified under Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM); and
- (f) the criteria used to determine them along with the number of solar pumps installed in these 'dark zones' for revenue earned by farmers in these zones?

**ANSWER**

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

**(SHRI R.K. SINGH)**

(a) to (c) The Ministry of New and Renewable energy (MNRE) launched Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM) on 8.3.2019, with the following three components:

- (i) Component-A: installation of 10,000 MW aggregated capacity small solar power plants each of capacity up to 2 MW on the barren/fallow land of the farmers;
- (ii) Component-B: installation of 20 lakh standalone off-grid solar water pumps; and
- (iii) Component-C: solarization of 15 lakh existing grid-connected agriculture pumps.

Under the Scheme 30.8 GW solar power capacity will be created by 2022 with central financial support of Rs. 34,035 Crore.

Under the Component-B and Component-C of the Scheme, the Central Government provides as subsidy 30% of benchmark cost or cost discovered through tender, whichever is lower. In addition to central financial support at least 30% of cost of solar pump is provided by the respective State Government. In case of North-Eastern states including Sikkim; hilly states of Himachal and Uttarakhand; UTs of Jammu and Kashmir, Ladakh, Andaman & Nikobar island and Lakshadweep, higher central financial support of 50% of benchmark cost or cost discovered through tender, whichever is lower is being provided.

A total of 47146 nos. of solar pumps have been installed under Component-B; and 580 nos. of existing pumps have been solarized under Component-C. State-wise details of the standalone solar pumps installed/ pumps solarized under PM-KUSUM Scheme and funds released is placed at **Annexure-I**.

(d) Provision of sale of surplus power through solarisation of individual grid-connected pumps has been made under Component-C of PM-KUSUM Scheme. As solarisation of pumps has recently started on ground, billing of surplus power sold by farmers is yet to be reported by the state implementing agencies.

(e)&(f) Dark zones or over-exploited ground water resources are identified by Central Ground Water Board (CGWB) in association with the State ground water organisations.

The ground water resources are assessed in units i.e blocks/ talukas/ mandals/ watersheds. These assessment units are categorized for ground water development based on two criteria - a) stage of ground water development, and b) long-term pre and post monsoon water levels. CGWB has notified 162 Over-exploited areas in the country for regulation of ground water development and management.

State Implementation Agencies for PM-KUSUM Scheme so far have not reported installation of solar pumps in the 'Dark Zones'.

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**Annexure-I**

Annexure-I referred in reply to Part (a) to (c) of Lok Sabha Question No. 590 to be answered on 22.07.2021 on 'Solar Pumps to Farmers'

***Details of solar pumps installed/ pumps solarized and funds released under PM-KUSUM Scheme***

<b>S. No.</b>	<b>States</b>	<b>No. of Pumps Installed/ existing pumps solarized as on 30.06.2021</b>	<b>Central Financial Support released (Rs. Crore)</b>
1.	Gujarat	379	3.95
2.	Haryana	14254	62.70
3.	Himachal Pradesh	121	2.79
4.	Jharkhand	1467	16.05
5.	Karnataka	96	1.26
6.	Madhya Pradesh	7234	71.07
7.	Manipur	2	0.36
8.	Odisha	203	0.77
9.	Punjab	2925	20.05
10.	Rajasthan*	15549	94.03
11.	Tamilnadu	1016	11.21
12.	Tripura	215	3.96
13.	Uttar Pradesh	4265	20.37
	<b>Total</b>	<b>47726</b>	<b>308.57</b>

\*including 580 nos. of existing grid connected agriculture pumps solarized in the State of Rajasthan