

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 2687**  
TO BE ANSWERED ON 01.12.2016

**INSTALLATION OF SOLAR POWER SYSTEMS IN RAILWAY STATIONS AND  
GREENFIELD AIRPORTS**

2687. SHRI RAM MOHAN:  
SHRI NAIDU KINJARAPU:  
SHRI ASHWINI KUMAR CHOUBEY:  
SHRI RAJU SHETTY:

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

- (a) whether the Government proposes to install solar power systems in railway stations and Greenfield airports across the country, if so the details thereof, State-wise;
- (b) whether such systems presently exist in airports and railway stations in the country;
- (c) if so, the details of such railway stations and airports with solar power plants to fulfil their power needs;
- (d) whether any trains are installed with solar power system in the country, if so, the details therefor and if not, the reasons therefor and the time by which it is likely to be installed; and
- (e) the action plan formulated to promote renewable energy at railway stations and airports in the country?

ANSWER

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

**(a):** Yes Madam. Government is encouraging installation of solar power systems particularly on rooftops all over the country including on railway stations and airports as well. However, no State-wise target has been set. For railway stations and airports.

**(b)&(c):** So far as aggregate capacity of 37.11 MWp solar power systems have been installed at airports and 10.50 MWp in railway premises as per details given in Annexure .

**(d):** Yes Madam. Railway has provided solar panels on rooftop of coaches for train lighting system in four narrow gauge coaches plying on Pathankot-Joginder Nagar route in Kangra Valley section and 14 narrow gauge coaches plying on Kalka-Shimla section on trial basis.

**(e):** Ministry of Railways has set a target for setting up of 1,000 MWp solar power plants on railway/private land and railway buildings by 2020. The Ministry of New and renewable Energy has signed a Memorandum of Understanding with Ministry of Railways for Cooperation in the areas of renewable energy including solar on 12th August 2015. MNRE has sanctioned/approved subsidy/incentives for aggregate 500 MWp capacity to Ministry of Railways. In addition of solar power plants at various airports/locations for a total capacity of 18.385MWp are in progress

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**ANNEXURE REFERRED TO IN REPLY TO PARTS (b)&(c) OF LOK SABHA UNSTARRED QUESTION NO. 2687 FOR 01.12.2016**

<b>Solar Projects Installed &amp; Commissioned as on 28<sup>th</sup> November, 2016</b>			
<b>Sl. No.</b>	<b>Airport/unit</b>	<b>State</b>	<b>Capacity in KWp</b>
<b>Roof Top</b>			
1	Rajiv Gandhi Bhawan	Delhi	250
2	Raipur	Chhattisgarh	100
3	Bhopal	Madhya Pradesh	100
4	Indore	Madhya Pradesh	100
5	Guwahati-I	Assam	50
6	Jaisalmer	Rajasthan	100
7	Bhubaneswar	Odisha	100
8	Amritsar	Punjab	400
9	Jaipur	Rajasthan	100
10	Lucknow	Uttar Pradesh	500
11	Kolkata	West Bengal	2000
12	Calicut	Kerala	750
13	Guwahati -II	Assam	250
14	Chennai (RT)	Tamil Nadu	1500
15	Patna (RT)	Bihar	250
16	Ranchi (RT)	Jharkhand	250
17	New operational office RED-Chennai (RT)	Tamil Nadu	100
18	Varanasi (RT)	Uttar Pradesh	600
19	Hyderabad	Andhra Pradesh	500
20	Madurai (RT)	Tamil Nadu	170
21	Kochi	Kerala	1100
Total Roof Capacity (In KWp)			9270
<b>Ground Mounted</b>			
1	Chandigarh	UT	3000
2	Kochi	Kerala	12000
3	Hyderabad	Telangana	5000
4	New Delhi	Delhi	7840
Total Ground Mounted Capacity (In KWp)			27840
<b>Total Capacity (In KWp)</b>			<b>37110</b>

**Solar Installation in Railways (as on 25.05.2016)**

Sr. no	Railway	Grid connected solar plant capacity
1	CR	60kWp
2	ER	40 kWp
3	ECOR	100kWp
4	NR	1080kWp
5	NER	130kWp
6	NWR	120kWp
7	SECR	70kWp
8	RCF/RBL	2000kWp
9	Total Grid connected	3766kWp
10	Other railway non grid connected	6734 kWp
11	<b>Grand Total</b>	<b>10500 kWp</b>

**File No. 06/21/2016-17/PQ**  
**Government of India**  
**Ministry of New and Renewable Energy**  
**(Grid Connected Solar Rooftop Division)**  
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**Subject: Lok Sabha Unstarred Question No. 2687 to be answered on 01.12.2016 on 'INSTALLATION OF SOLAR POWER SYSTEMS IN RAILWAYS STATIONS AND GREENFIELD AIRPORTS '**

Ref: F/R

The Lok Sabha Unstarred Question No. 2687 from SHRI RAM MOHAN, SHRI NAIDU KINJARAPU, SHRI ASHWINI KUMAR CHOUBEY, SHRI RAJU SHETTY, to be answered on 01.12.2016 on INSTALLATION OF SOLAR POWER SYSTEMS IN RAILWAYS STATIONS AND GREENFIELD AIRPORTS has been received which is reproduced as follows:-

- (a) whether the Government proposes to install solar power systems in railways stations and Greenfield airports across the country, if so the details thereof, State-wise;
- (b) whether such systems presently exist in airports and railways stations in the country;
- (c) if so, the details of such railway stations and airports with solar power plants to fulfil their power needs;
- (d) whether any trains are installed with solar power system in the country, if so, the details thereof and if not, the reasons thereof and the time by which it is likely to be installed; and
- (e) the action plan formulated to promote renewable energy at railway stations and airports in the country?

The input from Airport Authority of India has been received and incorporated. The input not received from Railways

The draft reply is placed below for approval (DFA).

**(Hiren Chandra Borah)**  
**Scientist C**  
**28.11.2016**

**Dir (VS)**