

**GOVERNMENT OF INDIA
RAILWAYS
LOK SABHA**

UNSTARRED QUESTION NO:762

ANSWERED ON:27.11.2014

SOLAR POWER AND WIND MILL PLANTS

Karandlaje Km. Shobha;Pradhan Shri Nagendra Kumar;Saraswati Shri Sumedhanand

Will the Minister of RAILWAYS be pleased to state:

- (a) the details of the energy being currently generated by Indian Railways from solar and wind mill plants in the country including solar power and wind mill plants proposed to be set up by the Railways in the country, location-wise along with generation capacity;
- (b) whether the Railways propose to provide land to private companies for setting up of solar power plants under Public Private Partnership (PPP) mode for generation of solar energy;
- (c) if so, the details and the present status thereof;
- (d) whether the Railways have formed any joint venture company for the purpose; and
- (e) if so, the details thereof?

Answer

MINISTER OF STATE IN THE MINISTRY OF RAILWAYS (SHRI MANOJ SINHA)

(a) to (e) : A statement is laid on the Table of the House.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF UNSTARRED QUESTION NO. 762 BY SHRI SUMEDHANAND SARASWATI, SHRI NAGENDRA KUMAR PRADHAN AND KUMARI SHOBHA KARANDLAJE TO BE ANSWERED IN LOK SABHA ON 27.11.2014 REGARDING SOLAR POWER & WIND MILL PLANTS

(a) About 25 million kilo watt hour (kwh) of electrical energy is currently being generated annually from solar and wind mill plants of about 20 Mega Watt (MW) capacity installed by Railways. Further, works for about 178 MW of solar and wind mill plants have been sanctioned. Details of such plants along with generation capacity are as under:

I. Solar and Wind Mill Plants already installed:

(i) Wind mill plants of 10.5 Mega Watt (MW) capacity has already been installed in Tamil Nadu for Integral Coach Factory (ICF) Chennai.

(ii) So far, about 9.5 Mega Watt Peak (MWp) solar based lighting system have been installed at about 500 Railway Stations, 4000 Level Crossing (LC) gates, 400 street lights, office building, Raebareli Coach Factory.

II. Details of proposed Solar Plants and Wind Mill Plants:

(i) 10.5 MW Wind mill plant plants proposed to be installed under Railway funding in Tamil Nadu.

(ii) Wind mill plant of 157.5 MW have been planned to be provided in wind rich States in joint venture module with Railway Energy Management Company (REMC), out of which 26 MW wind mill plant will be provided in Rajasthan.

(iii) 9.45 MWp solar plant to be provided at 2000 LC gates, 200 stations and 26 building's roof top under Railway funding are as under:

I. Provision of 1 MWp Solar Photo Voltaic (SPV) modules at Katra Railway station.

II. Provision of 10 KWp solar PV modules each at following at 200 stations (2MWp):

Railway Name of Station

North Eastern Railway Nakaha Jungle, Maniram, Pappaganj, Campierganj,
Lachhmipur, Brijmanganj, Uska Bazar, Chilhia,
Shohratgarh, Parsa, Pachperwa, Gainsari,
Tulsipur, Kauwapur, Jharkhandi, Intiathok,
Subhagpur, Gangadham, Bangain, Bishewarganj,
Payagpur, Chilwaria, Risia, Matera, Mihinpurwa,
Kakarha R. house, Murtiha, Nishangara, Bichhiya,
Tikunia, Belrayan, Sonaripur, Dudwa, Palia Kalan,
Bhira Kheri, Rajnarainpur, Golagokaran Nath, Razganj,
Pharedahan, Deokali, Khiri Town, Oel, Hargaon,

Jharekapur, Khairabad Awadh, Kamlapur, Sidhauri,
Ataria, Itaunja, Bakshi Ka Talab, Mohibullapur,
Dudahi, Kathkuiyan, Barharaganj, Ramkola,
Lakshmiganj, Paniahwa, Khadda, Siswa Bazar,
Ghughli, Bodawar, Pipraich, Unaula, Khurhat,
Sathiaon, Sarai Rani, Phariha, Sarai Mir, Khorason
Road, Didarganj Road.

North Western Railway Bomadra, Rajkiawas, Kheduli, Ren, Jalsu, Gachhipura,
Besroli, Borawar, Kuchaman City, Naya Khardia, Govindi
Marwar, Satlana, Dudia, Dundara, Ajit, Parlu, Janiyana,
Khed temple, Tilwara, Gole, Bhimarlai, Bamsin, Rakhi,
Mokalsar, Balwara, Bishangath, Bheempura, Ledarmer,
Malwara, Marwar Ratanpur, Bhikamkor, Samrau,
Shatan Singh Nagar, Odania Chacha, Shri Bhadaria
Lathi, Jetha Chandan, Thaiyat Hamira, Kiroda, Khatu,
Tal Chhapar, Nal, Gajner, Kolayat, Dyatra Road,
Nokhra, Sird, Bap, Malar, Kanasar, Jamsar, Jagdevwala,
Dhirera, Dulmera, Lunkaransar, Nathawana, Malkisar,
Mahajan, Rajaisar, Arjunsar, Gadwala, Napasar Sudsar,
Benisar, Sridungargarh, Bigga, Persneu, Rajaldelsar
Molisar, Juharpur, Depalsar, Asalu, Dhudhwakhara,
Hadyal Dokawa, Surtpura, Harpalu, Rampura Beri,
Perveipur, Sohansara, Satnali.

Northeast Frontier Railway Simaluguri Junction, Bhojo, LAX, Dibrugarh, Namrup,
Margherita, New Tinsukia, Bar-Langfer, Langcholiet,
Nailalong, Patharkanol, Lamsakhang, Habaipur,
Dhalpukhori, Manderdisa, Hatikhali, Langting, Phiding,
Mahur, Migrendisa, Bagetar, Haflong Hill, Jatinga,
Longrangajao, Mail-ongdisa, Harangajao, Ditokcherra,
Bokajan, Bandarkhal, Damcherra, Silghat Town, JQD,
Amoni, Raha, Pulaguri, Bebejia, Senchoa Junction,
Silanaguri Junction, Algapur, Kataknal, Hail Akandi,
Salchapara, Lalabazar, Maishashan, Dulla Bcherra,
Baraigram, Tilbhum, Phakhdagram, Arunachal, Panchgram.

III. Provision of total 4.645 MWp Solar Photo Voltaic (SPV) at roof top of following office buildings:

SN Railway Major Building/Location
1 Central Railway General Manager's Office & Zonal
Railway Training School Bhusawal building
2 Eastern Railway General Manager's Office
3 East Central Railway General Manager's Office
4 East Coast Railway General Manager's Office
5 North Central Railway General Manager's Office
6 North Eastern Railway General Manager's Office
7 Northeast Frontier Railway General Manager's Office
8 Northern Railway General Manager's Office &
New Delhi Railway Station
9 North Western Railway General Manager's Office &
Lalgarh (Bikaner)
10 Southern Railway General Manager's Office
11 South Central Railway General Manager's Office
Secundrabad and PRS Boiguda
12 South Eastern Railway General Manager's Office
13 South East Central Railway General Manager's Office
14 South Western Railway General Manager's Office
15 West Central Railway General Manager's Office
16 Western Railway General Manager's Office
17 Metro Railway Kolkata General Manager's Office
and Neopara Carshed Kolkata
18 Diesel Locomotive General Manager's Office
Workshop
19 Rail Coach Factory General Manager's Office
Kapurthala
20 Integral Coach General Manager's Office
Factory, Chennai
21 Railway Design & Standard Administrative Office
Organisation, Lucknow

IV. Provision of total 1.3 MWp capacity Solar Photo Voltaic (SPV) plants at 2000 LC gates on Indian Railways:

SN Railway	No. of LC gates
1 Central Railway	50
2 Eastern Railway	50
3 East Central Railway	200
4 East Coast Railway	100
5 North Central Railway	100
6 North Eastern Railway	250
7 Northeast Frontier Railway	200
8 Northern Railway	150
9 North Western Railway	170
10 Southern Railway	150
11 South Central Railway	130
12 South Eastern Railway	50
13 South East Central Railway	50
14 South Western Railway	150
15 West Central Railway	50
16 Western Railway	150
Total	2000

(b) & (c): At present there is no proposal to set up solar plants on Railway land by the private companies in Public Private Partnership (PPP).

(d): Yes, Madam.

(e): Railway Energy Management Company (REMC), a Joint Venture (JV) of Ministry of Railways and RITES, has been formed mainly for harnessing green energy for Railways.