

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 2937
TO BE ANSWERED ON 12.12.2016
EQUITY FLOW FOR WIND AND SOLAR PROJECTS

2937. SHRI VIVEK GUPTA:

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

- (a) whether it is a fact that there is a slow-down in equity flow for close to 10,000 MW of projects relating to independent wind power projects and solar projects under the National Solar Mission;
- (b) the details of all solar project bids under the Mission, region-wise and the information regarding their progress; and
- (c) whether Government has assessed the financial constraints being faced by projects and their viability due to low tariffs being won at Government auctions and if so, the steps taken by Government to tackle the situation?

ANSWER

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

(a): No, Sir.

(b): The region-wise details of solar projects bids along with their progress is given at annexure.

(c): The Government has launched several schemes and is providing fiscal and promotional incentives, as given below, for promotion of Solar Energy:-

- capital and/or interest subsidy,
- tax holiday on the earnings for 10 years,
- generation based incentive,
- accelerated depreciation,
- viability gap funding (VGF),
- financing solar rooftop systems as part of home loan,
- concessional excise and custom duties,
- preferential tariff for power generation from renewables, and
- Foreign direct investment up to 100 per cent under the automatic route.

In addition, power is offered at lower tariff through schemes like bundling with thermal power and VGF.

**ANNEXURE REFERRED TO IN REPLY TO PART (b) OF RAJYA SABHA UNSTARRED QUESTION NO. 2937 FOR
ANSWER ON 12.12.2016**

(I) State-wise details of the solar energy plants handled by SECI

(Figures are in MW)

Generating States	VGF schemes	Canal-top and Canal-bank scheme	CPSU scheme	Defence Scheme	Solarization of Indo-Pak Border	Roof-top scheme (Sanctioned capacity in kW)
Andaman & Nicobar Islands						UC: 1000
Andhra Pradesh	UT: 850 UC: 400	C: 6	UC: 5 C: 250			UC: .255 C: 1215
Bihar						UC: 23 C: 358
Chhattisgarh	UC: 100					C: 800
Dadra & Nagar Haveli			UC: 3			
Delhi			UT: 2			UC: 4499 C: 5087
Gujarat	UT: 150 UC: 250 C: 40	UC: 25				UC: 1833 C: 2422
Haryana						UC: 910 C: 4642
Himachal Pradesh	UT: 50					
Jammu & Kashmir						UC: 0.09
Jharkhand						UC: 350 C: 989
Karnataka	UT: 230 UC: 970 C: 10	UT: 10	UT: 85			UC: 1138 C: 4637

Kerala		UC: 3	UT: 50			
MP	C: 220		UT: 210 UC: 165			UC: 100 C: 690
Maharashtra	UT: 50 UC: 950 C: 25			UC: 7		UC: 2626 C: 7553
Odisha	UC: 300 C: 20		UC: 10			UC: 468 C: 860
Puducherry	UT: 35					
Punjab		UC: 20				UC:950 C: 2075
Rajasthan	UT: 1105 C: 355		UT: 1 UC: 180		C: 5	UC: 523 C: 2804
Tamil Nadu	C: 10		UT: 50 C: 5			UC:4006 C: 10700
Telangana			C: 1.5	UC: 15		UC: 2051 C: 2939
Uttar Pradesh	UC: 325	UC: 6	UC: 6.76			UC: 3160 C: 5801
Uttarakhand		UC: 20				UC: 412
West Bengal		C: 10				UC: 1541 C: 1271
Others			UT: 13			
Total	UT: 2115 UC: 3295 C: 680	UT: 10 UC: 74 C: 16	UT: 411 UC: 369.76 C: 256.5	UT: UC: 22 C:	UT: UC: C: 5	UT: UC: 25933 C: 54842

Legend: UT: Under tendering; UC: Under construction; C: commissioned/completed

(II) STATUS OF SOLAR POWER PROJECTS UNDER DEVELOPER MODE HANDLED BY NTPC

SI No	Description of Park/ Project Location	Capacity (MW) / Category	Commissioning Schedule	Status
			<i>Act/Ant</i>	
1	Kurnool Ultra Mega Solar Park/ Kurnool, AP	500 MW (10x50 MW) Open	<i>21-04-2017</i>	· PPA signed on 22.03.16
2		350 MW (1x350 MW) Open	<i>20-04-2017</i>	· PPA signed on 21.03.16
3		150 MW (3x50 MW) DCR	<i>21-04-2017</i>	· PPA signed on 21.03.16
4	Bhadla Solar Park Ph-II/ Bhadla, Rajasthan	420 MW (6x70 MW) Open	<i>25-05-2017</i>	· PPA signed on 26.04.16
			<i>28-05-2017</i>	· PPA signed on 29.04.16
			<i>01-06-2017</i>	· PPA signed on 02.05.16
5	Uttar Pradesh (Non Solar Park)	100 MW (10x10MW) Open	<i>28-05-2017</i>	· PPA signed w.e.f. 29.04.16
6	Rajasthan (Non Solar Park)	100 MW (10x10MW) DCR	<i>12-07-2017</i>	· <u>PPAs signed w.e.f. 13.06.16</u>

7		130 MW (13x10 MW)	28-09-2017	· PPAs signed w.e.f 29.08.16
8	Telangana (Non Solar Park)	350 MW (35x10MW) Open	19-08-2017	· PPAs signed w.e.f 20.07.2016
9	Telangana (Non Solar Park)	50 MW (5x10 MW) DCR	19-08-2017	· PPAs signed on 04.08.16 w.e.f. 20.07.16
10	Pavagada Solar Park/ Tumkur, Karnataka	500 MW (10x50 MW) Open	20-07-2017	· PPA signed w.e.f. 21.06.16
11		100 MW (2x50 MW) DCR	Dec'17	· <u>After signing of PSAs, LOIs issued on 04.11.16:</u> PPAs yet to be signed . BGs not yet submitted.
12	Kadapa Ultra Mega Solar Park/ Kadapa, AP	250MW (1x250MW) Open	x	· Tender re-tendered
Break up of Projects			Non Solar Park	Total
Open			580 MW	2600 MW
DCR			150 MW	400 MW
Total			730 MW	3000 MW

(III) STATUS OF SOLAR POWER PROJECTS UNDER EPC MODE HANDLED BY NTPC

SI No	Description of Park / Project Location	Capacity (MW)/ Category	Commissioning date	Present Status
			<i>Act/Ant</i>	
A. Solar PV Project				
1	Ananathapuramu Ultra Mega Solar Park/ Ananthapuram, A P (1000 MW)	250 MW (5x50 MW) DCR	30-04-2016 (200MW) 29-07-2016 (50MW)	<ul style="list-style-type: none"> · Award placed on 3 companies for 50 MW each · 200 MW commissioned on 30.04.16 & started commercial operation on 09.05.16. · 50 MW synchronised on 29.07.16 & Commercial operation started on 10.08.2016 (Sch. Oct'16).
2		125 MW (1x125 MW) Open	<i>Mar-18</i>	<ul style="list-style-type: none"> · Board has approved award of 125 MW subject to investment approval & PPA signing. · Bidder offer validity extended from 20.07.16 to 20.09.16, further to 19.11.16 and further to 12.01.17. · <u>Tariff committee proposal approved on 05.07.16. Forwarded to Cost Engg. On 05.07.16.</u> · PPA to be signed by Commercial with Discom.

3		625 MW (5x125 MW) Open	Mar-18	<ul style="list-style-type: none"> Re-tendered package. NIT published on 19.05.16, Techno-commercial bid opened on 11.08.16 (15nos. of bids received). RA conducted on 20.10.2016. <p>Successful bidders are</p> <p>Other successful bidders matched quoted rate of Rs 2.32 Cr/MU of L1 bidder M/s Mahindra Sustain.</p> <ul style="list-style-type: none"> PPA to be signed by Commercial with Discom.
4	Bhadla Solar Park, Ph-II/ Bhadla, Rajasthan (260 MW)	260 MW (4x65 MW) DCR	Mar-17	<ul style="list-style-type: none"> Award placed on 3 companies
5	Neemuch-Agar Solar Park/Mandsaur, MP (250 MW)	250 MW (5x50 MW) DCR	Mar-17	<ul style="list-style-type: none"> Award placed on 4 companies
6	Pavagada Solar Park/ Tumkur, Karnataka (1000 MW)	250MW (5x50 MW) DCR	Mar-18	<ul style="list-style-type: none"> 9500 acres of Solar Park land procured by SPPD (KSPDCL), Another 500 acres to be procured. <u>NIT issued done in Sept 2016 for 250 MW (DCR). PBM held on 04.11.16</u>
7		750MW (6x125MW) Open	Aug-18	Under process
8	Andaman & Nicobar Solar Power Project (50 MW) With Battery Support	Chidia Tapu (8 MW) Open	Jun'18	Pre-bid meeting held on 11.11.16; 12 parties participated.
9		Manglutan (17 MW)	Jun'18	<ul style="list-style-type: none"> Pre-bid meeting held on 25.11.16.

10		Meethakari (20 MW)	x	<ul style="list-style-type: none"> Land for 20 MW project at Meethakhari site identified. Area Drainage Studies Report and Geotechnical Investigation Report finalized. A&N requested NTPC for not to pursue for Meethakari site due to huge earth filling requirements.
TOTAL (A)		2560 MW		
B. Joint Venture Project				
1	NSPCL Salem T N	50 MW	<i>Dec'17</i>	Award recommendation approved within NTPC and sent to CEO, NSPCL on 13.09.2016 for their approval.
TOTAL (B)		50 MW		
C. Roof Top Solar Project				
1	Vindhyachal-V NTPC-Vindhyachal MP	0.45292	06-07-2016	<ul style="list-style-type: none"> 140 KW solar plant on Ash Slurry Bldg. commissioned on 15.06.2016. 140KW solar plant on PT SG Bld. & WTP Bld. commissioned on 30.06.2016. 170KW solar plant on TG Building commissioned on 06.07.16. 0.45292MW Roof top Solar plant commissioned at all specified buildings.
2	Kudgi NTPC Bijapur Karnataka	1.5		<ul style="list-style-type: none"> <u>QR approved on 16.06.16.</u> NIT to be issued after Engg. inputs & as per site front readiness plan.
TOTAL (C)		1.95 MW		