# GOVERNMENT OF INDIA MINISTRY OF NEW AND RENEWABLE ENERGY LOK SABHA LINETARRED OUESTION NO. 4500

#### UNSTARRED QUESTION NO-4500 TO BE ANSWERED ON-22.03.2018

### GENERATION OF SOLAR ENERGY

#### 4500. SHRI RAM MOHAN NAIDU KINJARAPU SHRI MAGANTTI VENKATESWARA RAO (BABU)

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

- (a) whether the Government is trying to achieve the target of generation of solar energy by 2019;
- (b) if so, the details thereof;
- (c) the steps taken/being taken by the Union Government to achieve the said target; and
- (d) the progress made in various States of the country including Andhra Pradesh in this regard, State-wise?

#### **ANSWER**

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER (I/C) (SHRI R.K. SINGH)

- (a) and (b) The Government has revised the target of installing solar power capacity from 20GW to 100 GW by 2022. A cumulative capacity of 19.58 GW had been installed upto February, 2018.
- (c) The Government have launched several schemes for development & deployment of solar energy in the country which include providing various fiscal and promotional incentives such as capital subsidy, accelerated depreciation, waiver of Inter State Transmission System (ISTS) charges and losses, viability gap funding (VGF), financing solar rooftop systems as part of home loan, and permitting Foreign Direct Investment up to 100 per cent under the automatic route.
- (d) The state-wise details of Solar Power installed capacity including Andhra Pradesh are given in Annexure-I.

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#### **ANNEXURE**

## ANNEXURE REFERRED TO IN REPLY TO PART (D) OF LOK SABHA UNSTARRED QUESTION NO. 4500 FOR 22.03.2018

#### STATE-WISE DETAILS OF SOLAR POWER CAPACITY

As on 28-02-18

Sr. No.         State/UT         Total cumulative capacity (In MW)           1         Andaman & Nicobar         13.07           2         Andhra Pradesh         2170.32           3         Arunachal Pradesh         4.39           4         Assam         12.45           5         Bihar         142.45           6         Chandigarh         25.20           7         Chhattisgarh         185.03           8         Dadar & Nagar         5.46           9         Daman & Diu         10.61           10         Delhi         69.52           11         Goa         0.91           12         Gujarat         1587.00           13         Haryana         215.85           14         Himachal Pradesh         2.23           15         Jammu & Kashmir         6.86           16         Jharkhand         25.67           17         Karnataka         3657.52           18         Kerala         107.93           19         Lakshadweep         0.75           20         Madhya Pradesh         1247.41           21         Malnipur         1.33           22			
2       Andhra Pradesh       2170.32         3       Arunachal Pradesh       4.39         4       Assam       12.45         5       Bihar       142.45         6       Chandigarh       25.20         7       Chhattisgarh       185.03         8       Dadar &Nagar       5.46         9       Daman & Diu       10.61         10       Delhi       69.52         11       Goa       0.91         12       Gujarat       1587.00         13       Haryana       215.85         14       Himachal Pradesh       2.23         15       Jammu & Kashmir       6.86         16       Jharkhand       25.67         17       Karnataka       3657.52         18       Kerala       107.93         19       Lakshadweep       0.75         20       Madhya Pradesh       1247.41         21       Maharashtra       772.33         22       Manipur       1.33         23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26		State/UT	Total cumulative capacity ( In MW)
3       Arunachal Pradesh       4.39         4       Assam       12.45         5       Bihar       142.45         6       Chandigarh       25.20         7       Chhattisgarh       185.03         8       Dadar &Nagar       5.46         9       Daman & Diu       10.61         10       Delhi       69.52         11       Goa       0.91         12       Gujarat       1587.00         13       Haryana       215.85         14       Himachal Pradesh       2.23         15       Jammu & Kashmir       6.86         16       Jharkhand       25.67         17       Karnataka       3657.52         18       Kerala       107.93         19       Lakshadweep       0.75         20       Madhya Pradesh       1247.41         21       Maharashtra       772.33         22       Manipur       1.33         23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondi	1	Andaman & Nicobar	13.07
4       Assam       12.45         5       Bihar       142.45         6       Chandigarh       25.20         7       Chhattisgarh       185.03         8       Dadar &Nagar       5.46         9       Daman & Diu       10.61         10       Delhi       69.52         11       Goa       0.91         12       Gujarat       1587.00         13       Haryana       215.85         14       Himachal Pradesh       2.23         15       Jammu & Kashmir       6.86         16       Jharkhand       25.67         17       Karnataka       3657.52         18       Kerala       107.93         19       Lakshadweep       0.75         20       Madhya Pradesh       1247.41         21       Maharashtra       772.33         22       Manipur       1.33         23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab <td>2</td> <td>Andhra Pradesh</td> <td>2170.32</td>	2	Andhra Pradesh	2170.32
5         Bihar         142.45           6         Chandigarh         25.20           7         Chhattisgarh         185.03           8         Dadar &Nagar         5.46           9         Daman & Diu         10.61           10         Delhi         69.52           11         Goa         0.91           12         Gujarat         1587.00           13         Haryana         215.85           14         Himachal Pradesh         2.23           15         Jammu & Kashmir         6.86           16         Jharkhand         25.67           17         Karnataka         3657.52           18         Kerala         107.93           19         Lakshadweep         0.75           20         Madhya Pradesh         1247.41           21         Maharashtra         772.33           22         Manipur         1.33           23         Meghalaya         0.06           24         Mizoram         0.20           25         Nagaland         0.50           26         Odisha         79.57           27         Pondicherry         0.18 <td>3</td> <td>Arunachal Pradesh</td> <td>4.39</td>	3	Arunachal Pradesh	4.39
6         Chandigarh         25.20           7         Chhattisgarh         185.03           8         Dadar &Nagar         5.46           9         Daman & Diu         10.61           10         Delhi         69.52           11         Goa         0.91           12         Gujarat         1587.00           13         Haryana         215.85           14         Himachal Pradesh         2.23           15         Jammu & Kashmir         6.86           16         Jharkhand         25.67           17         Karnataka         3657.52           18         Kerala         107.93           19         Lakshadweep         0.75           20         Madhya Pradesh         1247.41           21         Maharashtra         772.33           22         Manipur         1.33           23         Meghalaya         0.06           24         Mizoram         0.20           25         Nagaland         0.50           26         Odisha         79.57           27         Pondicherry         0.18           29         Rajasthan         2317.11	4	Assam	12.45
7         Chhattisgarh         185.03           8         Dadar &Nagar         5.46           9         Daman & Diu         10.61           10         Delhi         69.52           11         Goa         0.91           12         Gujarat         1587.00           13         Haryana         215.85           14         Himachal Pradesh         2.23           15         Jammu & Kashmir         6.86           16         Jharkhand         25.67           17         Karnataka         3657.52           18         Kerala         107.93           19         Lakshadweep         0.75           20         Madhya Pradesh         1247.41           21         Maharashtra         772.33           22         Manipur         1.33           23         Meghalaya         0.06           24         Mizoram         0.20           25         Nagaland         0.50           26         Odisha         79.57           27         Pondicherry         0.18           29         Rajasthan         2317.11           30         Sikkim         0.01     <	5	Bihar	142.45
8         Dadar &Nagar         5.46           9         Daman & Diu         10.61           10         Delhi         69.52           11         Goa         0.91           12         Gujarat         1587.00           13         Haryana         215.85           14         Himachal Pradesh         2.23           15         Jammu & Kashmir         6.86           16         Jharkhand         25.67           17         Karnataka         3657.52           18         Kerala         107.93           19         Lakshadweep         0.75           20         Madhya Pradesh         1247.41           21         Maharashtra         772.33           22         Manipur         1.33           23         Meghalaya         0.06           24         Mizoram         0.20           25         Nagaland         0.50           26         Odisha         79.57           27         Pondicherry         0.18           28         Punjab         913.16           29         Rajasthan         2317.11           30         Sikkim         0.01	6	Chandigarh	25.20
9         Daman & Diu         10.61           10         Delhi         69.52           11         Goa         0.91           12         Gujarat         1587.00           13         Haryana         215.85           14         Himachal Pradesh         2.23           15         Jammu & Kashmir         6.86           16         Jharkhand         25.67           17         Karnataka         3657.52           18         Kerala         107.93           19         Lakshadweep         0.75           20         Madhya Pradesh         1247.41           21         Maharashtra         772.33           22         Manipur         1.33           23         Meghalaya         0.06           24         Mizoram         0.20           25         Nagaland         0.50           26         Odisha         79.57           27         Pondicherry         0.18           28         Punjab         913.16           29         Rajasthan         2317.11           30         Sikkim         0.01           31         Tamil Nadu         1822.57 <td>7</td> <td>Chhattisgarh</td> <td>185.03</td>	7	Chhattisgarh	185.03
10         Delhi         69.52           11         Goa         0.91           12         Gujarat         1587.00           13         Haryana         215.85           14         Himachal Pradesh         2.23           15         Jammu & Kashmir         6.86           16         Jharkhand         25.67           17         Karnataka         3657.52           18         Kerala         107.93           19         Lakshadweep         0.75           20         Madhya Pradesh         1247.41           21         Maharashtra         772.33           22         Manipur         1.33           23         Meghalaya         0.06           24         Mizoram         0.20           25         Nagaland         0.50           26         Odisha         79.57           27         Pondicherry         0.18           28         Punjab         913.16           29         Rajasthan         2317.11           30         Sikkim         0.01           31         Tamil Nadu         1822.57           32         Telangana         3282.67 <td>8</td> <td>Dadar &amp;Nagar</td> <td>5.46</td>	8	Dadar &Nagar	5.46
11       Goa       0.91         12       Gujarat       1587.00         13       Haryana       215.85         14       Himachal Pradesh       2.23         15       Jammu & Kashmir       6.86         16       Jharkhand       25.67         17       Karnataka       3657.52         18       Kerala       107.93         19       Lakshadweep       0.75         20       Madhya Pradesh       1247.41         21       Maharashtra       772.33         22       Manipur       1.33         23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35 <td< td=""><td>9</td><td>Daman &amp; Diu</td><td>10.61</td></td<>	9	Daman & Diu	10.61
12       Gujarat       1587.00         13       Haryana       215.85         14       Himachal Pradesh       2.23         15       Jammu & Kashmir       6.86         16       Jharkhand       25.67         17       Karnataka       3657.52         18       Kerala       107.93         19       Lakshadweep       0.75         20       Madhya Pradesh       1247.41         21       Maharashtra       772.33         22       Manipur       1.33         23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	10	Delhi	69.52
13       Haryana       215.85         14       Himachal Pradesh       2.23         15       Jammu & Kashmir       6.86         16       Jharkhand       25.67         17       Karnataka       3657.52         18       Kerala       107.93         19       Lakshadweep       0.75         20       Madhya Pradesh       1247.41         21       Maharashtra       772.33         22       Manipur       1.33         23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	11	Goa	0.91
14       Himachal Pradesh       2.23         15       Jammu & Kashmir       6.86         16       Jharkhand       25.67         17       Karnataka       3657.52         18       Kerala       107.93         19       Lakshadweep       0.75         20       Madhya Pradesh       1247.41         21       Maharashtra       772.33         22       Manipur       1.33         23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	12	Gujarat	1587.00
15       Jammu & Kashmir       6.86         16       Jharkhand       25.67         17       Karnataka       3657.52         18       Kerala       107.93         19       Lakshadweep       0.75         20       Madhya Pradesh       1247.41         21       Maharashtra       772.33         22       Manipur       1.33         23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	13	Haryana	215.85
16       Jharkhand       25.67         17       Karnataka       3657.52         18       Kerala       107.93         19       Lakshadweep       0.75         20       Madhya Pradesh       1247.41         21       Maharashtra       772.33         22       Manipur       1.33         23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	14	Himachal Pradesh	2.23
17       Karnataka       3657.52         18       Kerala       107.93         19       Lakshadweep       0.75         20       Madhya Pradesh       1247.41         21       Maharashtra       772.33         22       Manipur       1.33         23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	15	Jammu & Kashmir	6.86
18       Kerala       107.93         19       Lakshadweep       0.75         20       Madhya Pradesh       1247.41         21       Maharashtra       772.33         22       Manipur       1.33         23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	16	Jharkhand	25.67
19       Lakshadweep       0.75         20       Madhya Pradesh       1247.41         21       Maharashtra       772.33         22       Manipur       1.33         23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	17	Karnataka	3657.52
20       Madhya Pradesh       1247.41         21       Maharashtra       772.33         22       Manipur       1.33         23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	18	Kerala	107.93
21       Maharashtra       772.33         22       Manipur       1.33         23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	19	Lakshadweep	0.75
22       Manipur       1.33         23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	20	Madhya Pradesh	1247.41
23       Meghalaya       0.06         24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	21	Maharashtra	772.33
24       Mizoram       0.20         25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	22	Manipur	1.33
25       Nagaland       0.50         26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	23	Meghalaya	0.06
26       Odisha       79.57         27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	24	Mizoram	0.20
27       Pondicherry       0.18         28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	25	Nagaland	0.50
28       Punjab       913.16         29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	26	Odisha	79.57
29       Rajasthan       2317.11         30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	27	Pondicherry	0.18
30       Sikkim       0.01         31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	28	Punjab	913.16
31       Tamil Nadu       1822.57         32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	29	Rajasthan	2317.11
32       Telangana       3282.67         33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	30	Sikkim	0.01
33       Tripura       5.09         34       Uttar Pradesh       551.15         35       Uttarakhand       294.08	31	Tamil Nadu	1822.57
34         Uttar Pradesh         551.15           35         Uttarakhand         294.08	32	Telangana	3282.67
35 Uttarakhand 294.08	33	Tripura	5.09
	34	Uttar Pradesh	551.15
36 West Bengal 53.52	35	Uttarakhand	294.08
	36	West Bengal	53.52