

**Ministry of New and Renewable Energy**  
**(Grid Connected SPV Rooftop, Solar Cities & Green Buildings Division)**

**Development of Solar City Programme**  
**Status Note on Solar Cities (As on 31.05.2014)**

### **1. Background**

The Ministry has launched a Scheme on “Development of Solar Cities”: under which a total of 60 cities/towns are proposed to be supported for development as “Solar/ Green Cities”. At least one city in each State to a maximum of five cities in a State may be supported by the Ministry. The cities may have population between 0.5 to 50 lakh. Relaxation could be considered for special category states including North-Eastern States. Financial support up to of Rs. 50 lakh for each city may be provided for preparation of the Master Plan alongwith few DPR (up to Rs. 10 lakh), oversight of its implementation (up to Rs. 10 lakh), setting up and functioning of Solar City Cell in the city (up to Rs. 10 lakh) and organizing promotional activities (up to Rs. 20 lakh).

### **2. Status of Proposals**

- Sanctions have been issued for 46 Cities namely Agra, Moradabad, Rajkot, Gandhinagar, Surat, Nagpur, Kalyan-Dombiwali, Thane, Aurangabad, Nanded, Gwalior, Rewa, Imphal, Kohima, Dimapur, Dehradun, Haridwar-Rishikesh, Chamoli-Gopeshwar, Chandigarh, Gurgaon, Faridabad, Coimbatore, Vijayawada, Bilaspur, Raipur, Agartala, Guwahati, Jorhat, Hubli-Dharwad, Mysore, Amritsar, Ludhiana, Mohali, Jodhpur, Bhubaneswar, Aizawl, Panaji City & Environs, Itanagar, Hamirpur, Shimla Shirdi, Ajmer, New Town Kolkata, Howrah, Madhyamgram and New Delhi.
- Of these 46 Cities the Master Plans have been prepared for 40 cities namely Agra, Moradabad, Gandhinagar, Rajkot, Surat, Kalyan-Dombiwali, Thane, Shirdi, Nagpur, Indore, Rewa, Gwalior, Imphal, Kohima, Dimapur, Chandigarh, Gurgaon, Faridabad, Bilaspur, Raipur, Agartala, Guwahati, Jorhat, Hubli-Dharwad, Mysore, Aizawl, Itanagar, Coimbatore, Shimla, Hamirpur, Jodhpur, Vijayawada, Ludhiana, Amritsar, Chamoli-Gopeshwar, Dehradun, Haridwar-Rishikesh, New Town Kolkata, Bhubaneswar and Aurangabad.
- Further, “In-Principle” approvals have been given to 9 Cities namely Bhopal, Thiruvananthapuram, Jaipur, Kochi, Indore, Allahabad, Leh, Puducherry and Mahbubnagar. The respective Corporations/State Nodal Agencies are in the process of engaging Consultants for preparation of the Master Plans.
- Detailed project reports for installation of renewable energy projects/systems have been received from Chandigarh, Gandhinagar, Rajkot, Mysore, Kohima, Agartala, Thane, Nagpur, Aizawl, Jorhat Itanagar, Shirdi, Faridabad, Shimla, Puducherry, Vijaywada, Raipur cities which are under consideration.

### **3. Empanelment of Consultants**

The Ministry has empanelled 26 consultants in June 2009 for preparation of the Master Plans. The list is available in the Website of MNRE.

### **4. Model Solar Cities.**

**Eight** Cities are to be developed as ‘Model Solar Cities’. So far, **Nagpur, Chandigarh, Gandhinagar and Mysore** have been identified/ sanctioned. The financial support upto Rs. 9.50 crore is provided for each Model Solar City provided the equal amount of Rs. 9.50 crore is given by the Municipal Corporation/City Administration/State or any other resources including public private partnership for installation of renewable energy projects/system.

### **5. Pilot Solar Cities**

**Fifteen** Cities to be developed as ‘Pilot Solar Cities’. So far Agartala, Rajkot, Shimla, Faridabad, Thane, Raipur, Shirdi, Leh, Aizawl, Puducherry and Amritsar are being developed as Pilot Solar City. The financial support upto Rs. 2.50 crore will be provided for each Pilot Solar City provided the equal amount of Rs. 2.50 crore is given by the Municipal Corporation/City Administration/State or any other resources including public private partnership for installation of renewable energy projects/systems.

### **6. Solar City Cells and Stakeholders Committees:**

The Stakeholders committees have been constituted in all 46 solar cities while the solar city cells have been created in 26 solar cities.

## **7. RE Projects:**

RE projects with an aggregate capacity of 6.66 MWp eq. Solar PV Projects and 505100 lpd (7894.5 m<sup>2</sup>) SWH systems have been sanctioned in Chandigarh, Mysore, Rajkot, Agartala, Faridabad, Thane, Aizwal, Puducherry, Nagpur and Surat solar cities.

## **8. Green Campus:**

So far sanctions has been given for 6 campuses namely Silver Jubilee Campus of Pondicherry University, Auroville, Dayalbagh Nagar Panchayat, School of Planning & Architecture (New Delhi), Malkapur Nagar Panchayat, KIIT University to be developed as Green Campus.

## **9. Financial Status**

- The sanctions have been issued for **46 Cities** at a total cost of **Rs. 2173.10 lakh** /-for Master Plans, Solar City Cells and Promotional Activities of which **Rs. 479.23 lakh** has been released.
- An amount of **Rs. 3614.11 lakh** has been sanctioned for installation of renewable energy projects in 10 Solar Cities of which **Rs. 1110.695 lakh** has been released.
- An amount of **Rs. 35.00 lakh** have been sanctioned and an amount of **Rs. 3.60 lakh** have been released for Green Campuses.

**State-wise list of Solar Cities for which Sanctions/In-Principle approvals have been given  
(Sanctions accorded for Master Plans, Solar City Cells and Promotional Activities).**

<b>Sr. No</b>	<b>State</b>	<b>Cities for which in-principle approval given</b>	<b>Amount Sanctioned in (Rs. Lakh)</b>	<b>Amount Released (Rs. Lakh)</b>
1	Andhra Pradesh	1. Vijaywada 2. Mahbubnagar*	46.40 -	15.40 -
2	Assam	3. Guwahati 4. Jorhat	45.45 49.18	7.72 24.18
3	Arunachal Pradesh	5. Itanagar	47.49	16.49
4	Chandigarh	6. Chandigarh	49.75	24.75
5	Chhattisgarh	7. Bilaspur 8. Raipur	43.43 43.43	12.43 12.43
6	Gujarat	9. Rajkot  10. Gandhinagar  11. Surat	47.45  50.00 43.46	12.72  14.00 8.46
7	Goa	12. Panji City	43.30	1.65
8	Haryana	13. Gurgaon 14. Faridabad	47.45 48.75	3.70 17.75
9	Himachal Pradesh	15. Shimla 16. Hamirpur	42.95 42.80	11.94 11.80
10	Karnataka	17. Mysore  18. Hubli-Dharwad	43.25  43.00	5.62  1.50
11	Kerala	19. Thiruvananthapuram* 20. Kochi*	- -	- -
12	Maharashtra	21. Nagpur 22. Thane 23. Kalyan-Dombiwali 24. Aurangabad 25. Nanded 26. Shirdi	48.93 49.84 49.57 50.00 50.00 43.48	4.46 18.84 24.57 7.86 3.74 1.74
13	Madhya Pradesh	27. Indore*  28. Gwalior 29. Bhopal* 30. Rewa	-  49.55 - 50.00	-  9.78 - 13.55
14	Manipur	31. Imphal	48.56	4.28
15	Mizoram	32. Aizawl	48.09	17.09
16	Nagaland	33. Kohima 34. Dimapur	46.98 48.95	15.97 4.47
17	Delhi	35. New Delhi (NDMC area)	50.00	2.25
18	Orissa	36. Bhubaneswar	47.37	3.68
19	Punjab	37. Amritsar 38. Ludhiana 39. SAS Nagar (Mohali)	45.00 45.00 50.00	11.50 11.50 2.24
20	Rajasthan	40. Ajmer 41. Jaipur* 42. Jodhpur	50.00 - 43.50	1.35 - 1.75
21	Tamil Nadu	43. Coimbatore	49.00	9.00

<b>Sr. No</b>	<b>State</b>	<b>Cities for which in-principle approval given</b>	<b>Amount Sanctioned in (Rs. Lakh)</b>	<b>Amount Released (Rs. Lakh)</b>
22	Tripura	44. Agartala	45.49	11.75
23	Uttarakhand	45. Dehradun 46. Haridwar & Rishikesh 47. Chamoli –Gopeshwar	47.40 45.00 44.95	12.70 2.50 11.47
24	Uttar Pradesh	48. Agra 49. Moradabad 50. Allahabad*	48.89 50.00 --	23.89 25.00 --
25	West Bengal	51. Howrah 52. Madhyamgram 53. New Town Kolkata	50.00 50.00 50.00	4.31 4.15 11.26
26	Jammu & Kashmir	54. Leh*	-	-
27	Puducherry	55. Puducherry*	-	-
	<b>Total</b>		<b>2173.10</b>	<b>479.23</b>

**\*Only In-principal approval given.**

**RE Projects in Solar Cities**  
**[A] SPV Projects Sanctioned under Model/Pilot Solar Cities**

Sl. No	Solar City	RE Project	Capacity (kWp)	Sanctioned (₹ in lakh)	Released (₹ in lakh)	Remarks
1.	Chandigarh Model Solar City	(i) SPV Plant at Model Central Jail, Burail, Sector-45, Chandigarh	100 kWp	95.00		Completed
		(ii) Govt. Sr. Sec. School, Sector-46, Chandigarh	50kWp	47.50		Completed
		(iii) Judges House, Sector 19, Chandigarh	10kWp	13.50		Completed
		(iv) Paryawaran Bhawan Building, Sector-19, Chandigarh	50kWp	47.50		Completed
		<b>Sub Total [A1]</b>	<b>210kWp</b>	<b>203.50</b>	<b>101.75</b>	
		(i) Solar PV Power Plants at Govt. College for Girls <ul style="list-style-type: none"> <li>• Admn. And Library Dept. 50 kWp 37.50</li> <li>• Physics and Zoology Dept. 100 kWp 75.00</li> <li>• Class Room Old Block 100 kWp 75.00</li> <li>• BCA Block 80 kWp 60.00</li> </ul>				Completed
		(ii) Solar PV Power Plants Govt. College for Men <ul style="list-style-type: none"> <li>• Auditorium 30kWp 22.50</li> <li>• Botany Block 30kWp 22.50</li> <li>• Chemistry Block 30kWp 22.50</li> <li>• Physics Block 30kWp 22.50</li> <li>• Pyscology Block 25kWp 18.75</li> <li>• Library 40kWp 30.00</li> <li>• Geography Block 25kWp 18.85</li> <li>• Music Block 25kWp 18.75</li> <li>• Gymnasium 10kWp 7.50</li> <li>• Hostel (Main) 80kWp 60.00</li> <li>• Hostel (New) 70kWp 52.50</li> <li>• Hostel (General) 40kWp 30.00</li> </ul>				
		<b>Sub Total [A2]</b>	<b>765kWp</b>	<b>573.75</b>	<b>75.00</b>	
	Chandigarh Model Solar City <b>Date.14.08.2012</b> <b>(In continuation)</b>	(i) Physics lab and class room 39,40 (Govt. college for Girls, Sector-11, Chandigarh)	35kW	26.25		Completed
		(ii) Botany and Geography Lab (Govt. college for Girls, Sector-11, Chandigarh)	33Kw	22.50		Completed
		(iii) Home Science Block Class room (Govt. college for Girls, Sector-11, Chandigarh)	100kW	75.00		Completed
		<b>Sub Total [A3]</b>	<b>165kW</b>	<b>123.75</b>	<b>61.87</b>	
	Chandigarh Model Solar City Date.25.02.2013 (In continuation)	IRB complex, Chandigarh police	200kW	150.00	75.00	Under Installation
		<b>Sub Total [A4]</b>	<b>200kW</b>	<b>150.00</b>	<b>75.00</b>	
	Chandigarh	Installation of 495kWp SPV System	0	0	112.66	

Sl. No	Solar City	RE Project	Capacity (kWp)	Sanctioned (₹ in lakh)	Released (₹ in lakh)	Remarks
	Model Solar City Date.05.03.2013	in Govt. College for Girls and 435 kWp SPV System in Govt. College for men				
		<b>Sub Total [A5]</b>	<b>0</b>	<b>0</b>	<b>112.66</b>	
	Chandigarh Model Solar City Date.25.03.2013	Installation of SPV Plants of total aggregate capacity of 1000 kWp to CREST to be installed at Punjab Engineering College	1000kW	390.00	-	Under Installation
		<b>Sub Total [A6]</b>	<b>1000kW</b>	<b>390.00</b>	<b>-</b>	
	Chandigarh Model Solar City Date 25.04.2014	Release of 2 <sup>nd</sup> installment of CFA to CREST for Model Central Jail 100 kWp, Govt. Sr. Sec. School 50 kWp, Paryavaran Bhawan 50 kWp	---	---	<b>62.44</b>	---
		<b>Sub Total [A7]</b>	<b>--</b>	<b>--</b>	<b>62.44</b>	
	Chandigarh Model Solar City (under JNNSM Scheme) Date 31.12.2013	Sanction for installation of grid connected rooftop SPV plants of total aggregate capacity of 810 kWp	<b>810kW</b>	<b>243.00</b>	<b>0</b>	Under Installation
	Chandigarh Model Solar City (under JNNSM Scheme) Date 31.12.2013	Sanction for installation of grid connected rooftop SPV plants of total aggregate capacity of 2 MWp	<b>2000kW</b>	<b>600.00</b>	<b>0</b>	Under Installation
		<b>Sub Total [A8]</b>	<b>2810kW</b>	<b>843.00</b>	<b>0</b>	
		<b>Sub Total A1+A2+A3+A4+A5+A6+A7+A8</b>	<b>5150kW</b>	<b>2284.00</b>	<b>488.72</b>	
2.	Mysore Model Solar City	(i) SPV Plant at Mysore City Corporation on building, Mysore	60 kWp	48.60	24.30	
		(ii) Kupanna Park, Mysore	8kWp	6.45	3.22	
		(iii) Cheluvamba Park, Mysore	8kWp	6.45	3.23	
		(iv) Mysore Urban Develop	75kWp	60.75	30.38	
		(v) Zonal Office Building, Mysore	45kWp	36.45	18.22	
		<b>Sub Total [B]</b>	<b>196kWp</b>	<b>158.70</b>	<b>79.35</b>	
3.	Rajkot Pilot Solar City	(i) SPV Plant at RMC West Zone office, 150' Ring Road, behind Big Bazar, Rajkot	60kWp	24.75	12.375	
		(ii) RMC East Zone Office, Zaverchand Meghani, Bhawan, Rajkot	50kWp	20.40	10.20	
		<b>Sub Total [C]</b>	<b>110kWp</b>	<b>45.15</b>	<b>22.575</b>	
4.	Agartala Pilot Solar City	SPV Plant at City Centre Building, Agartala	45kWp	93.17	46.58	
		<b>Sub Total [D1]</b>	<b>45kWp</b>	<b>93.17</b>	<b>46.58</b>	
	Agartala Pilot Solar City (In Continuation) (28.03.2013)	Installation of two Solar Photovoltaic Power Plants	30kW	54.90	-	
		<b>Sub Total [D2]</b>	<b>30kW</b>	<b>54.90</b>	<b>-</b>	
		<b>Sub Total [D1+D2]</b>	<b>75kW</b>	<b>148.07</b>	<b>46.58</b>	

Sl. No	Solar City	RE Project	Capacity (kWp)	Sanctioned (₹ in lakh)	Released (₹ in lakh)	Remarks
5.	Faridabad Pilot Solar City	(i) 61 nos. of Solar Hybrid inverters comprising of 225 W PV Module	13.725kWp	9.05	4.52	
		(ii) Solar Streetlight of 342 nos.		11.41	5.70	
		<b>Sub Total [E]</b>	<b>13.725 kW</b>	<b>20.46</b>	<b>10.22</b>	
6.	Thane Solar city (12.02.2013)	(i) 11 nos. of solar power pack systems	136kW	63.54	31.77	
		<b>Sub Total [F]</b>	<b>136kW</b>	<b>63.54</b>	<b>31.77</b>	
7	Aizawl Pilot Solar City (26.03.2013)	Solar Photovoltaic Power Plant of aggregate capacity 90kWp and Solar Water Heating System of aggregate capacity of 364 sq.m	90 kW	163.80	81.91	
		<b>Sub Total [G]</b>	<b>90 kW</b>	<b>163.80</b>	<b>81.91</b>	
9	Pondicherry Pilot Solar City (28.03.2013)	REAP Office, Office Complex, Forest Department, Pondicherry and Branch Press Mettupalayam	18kW	11.88	-	
		<b>Sub Total [H]</b>	<b>18kW</b>	<b>11.88</b>	<b>-</b>	
10	Nagpur Model Solar City (29.03.2013)	<b>Solar Photovoltaic Power Plants</b> of aggregate capacity of 125kWp capacity at New Administrative Building of NMC	125kW	87.50	0	
		<b>Sub Total [I]</b>	<b>125kW</b>	<b>87.50</b>	<b>0</b>	
11	Surat Solar City (under JNNSM Scheme) (31.12.2013)	Sanction for installation of 14 nos. grid connected rooftop SPV plant of aggregate capacity 750 kWp to Surat Municipal Corporation	<b>750kW</b>	<b>225.00</b>	<b>0</b>	
12	Surat Solar City (under JNNSM Scheme) (24.03.2014)	Sanction and Release of CFA for installation of grid connected rooftop SPV plant of aggregate capacity 750 kWp to Surat Municipal Corporation	---	---	<b>102.81</b>	
		<b>Sub Total [J]</b>	<b>750kW</b>	<b>225.00</b>	<b>102.81</b>	
	<b>Grand total</b>		<b>6663.725 kWp</b>	<b>3199.05</b>	<b>859.415</b>	

**RE Projects in Solar Cities**  
**[A1] SWH Projects Sanctioned under Model/Pilot Solar Cities**

Sl. No	Solar City	RE Project	Capacity M <sup>2</sup> (LPD)	Sanctioned (Rs.in lakh)	Released (Rs. in Lakh)	Remarks
1	Aizwl Pilot City	Solar Water Heating System of aggregate capacity of 364 sq.m	364 M <sup>2</sup> (18200lpd)	24.02	<u>12.01</u>	
	Aizwl Pilot City	Solar Water Heating System of aggregate capacity of 908 sq.m	908 M <sup>2</sup> (45400 lpd)	59.92	<u>29.96</u>	
	<b>Sub total</b>		<b>1272 M2</b>	<b>83.94</b>	<b>41.97</b>	
2	Nagpur Model Solar City	Solar Water Heating System of aggregate capacity of 6622.50 M <sup>2</sup> (441500 lp.d)	6622.50 M <sup>2</sup> (441500 lpd)	331.12	<u>209.31</u>	
	<b>Total</b>		<b>7894.50 M<sup>2</sup> (505100)</b>	<b>415.06</b>	<b>251.28</b>	