

Appendix I

Automatic Solar Resource Monitoring Stations (ASRMS) in India

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The Ministry of New and Renewable Energy (MNRE) has initiated a major project on Solar Radiation Resource Assessment (SRRA) across the nation to assess and quantify the solar radiation availability, along with weather parameters, with a view to develop the Solar Atlas. The Centre for Wind Energy Technology (C-WET), Chennai is implementing the project by installing a network of 51 Automatic Solar Radiation Monitoring Stations (ASRMS), in the first phase, in different states using high quality, high resolution equipment and instruments. The implementation of the project started in February 2011 and all stations have already been installed, completed and commissioned. Details of the 51 ASRMS¹ are in Table I1 below.

Table I1: Location of the 51 Automatic Solar Radiation Monitoring Stations (ASRMS) in India

S.No.	State	Station	Latitude (° N)	Longitude (° E)	Elevation (meters above mean sea level)
1	Andhra Pradesh	Chilakapalem	18°16' 10.86"	83°48' 33.55"	87
2	Andhra Pradesh	Guruzala	16°33' 46.5"	79°39' 31.6"	122
3	Andhra Pradesh	Kadiri	14°6' 34.5"	78°8' 50.1"	531
4	Andhra Pradesh	Medak	18°2' 27.31"	78°15' 58.68"	467
5	Andhra Pradesh	Rajahmundry	17°3' 52.7"	81°52' 0.9"	94
6	Andhra Pradesh	Tirupathi	13°37' 37.4"	79°23' 47.9"	190
7	Chhattisgarh	Bilaspur	22°04' 30.7"	82°11' 03.4"	267
8	Gujarat	Bhogat	22°1' 43.2"	69°15' 40.0"	14
9	Gujarat	Chandrodi	23°20' 2.08'	70°38' 14.5"	74
10	Gujarat	Gandhi Nagar	23°9' 17.47"	72°40' 0.78"	65
11	Gujarat	Idar	23°49' 47.5"	73°0' 10.8"	221
12	Gujarat	Jambua	22°12' 52.94"	73°11' 25.34"	29
13	Gujarat	Keshod	21°16' 29.0"	70°12' 42.8"	61
14	Gujarat	Kotada Pitha	21°56' 51.37"	71°12' 34.81"	207
15	Gujarat	Sadodar	22°03' 03.8"	70°14' 04.3"	192
16	Gujarat	Santalpur	23°46' 34.2"	71°10' 34.6"	30
17	Gujarat	Tharad	24°22' 38.2"	71°37' 47.9"	67
18	Gujarat	Vartej	21°44' 26.29"	72°4' 16.35"	30
19	Haryana	Gurgaon(SEC)	28°25' 31.2"	77°09' 18.8"	259
20	Jammu & Kashmir	Leh	34°08' 24.5"	77°28' 50.1"	3,252
21	Karnataka	Belgaum	16°25' 7.86"	74°47' 35.15"	803

22	Karnataka	Bellary	14°54' 14.74"	75°59' 27.21'	885
23	Karnataka	Bijapur	16°50' 48.5"	75°45' 5.7"	567
24	Karnataka	Chitradurga	14°12' 56.3"	76°25' 40.0"	760
25	Karnataka	Gulbarga	17°19' 10.7"	76°51' 16.4"	478
26	Madhya Pradesh	Mandsaur	24°04' 25.7"	75°01' 49.5"	461
27	Madhya Pradesh	Neemuch	24°28' 43.09"	74°52' 11.0"	501
28	Madhya Pradesh	Rajgarh	23°59' 12.6"	76°43' 38.8"	412
29	Maharashtra	Karad	17°18' 34.1"	74°11' 10.0"	599
30	Maharashtra	Pandharpur	17°39' 19.92"	75°22' 9.7"	480
31	Maharashtra	Shegaon	20°46' 47.91"	76°40' 45.12"	288
32	Pondicherry	Pondicherry	11°57' 35.78"	79°48' 37.80"	36
33	Rajasthan	Ajmer	26°24' 01.6"	74°39' 38.2"	501
34	Rajasthan	Amarsagar	26°56' 30.89"	70°52' 27.28"	288
35	Rajasthan	Bagora	25°12' 50.6"	72°1' 03.3"	91
36	Rajasthan	Balotra	25°48' 19.35"	72°14' 12.95"	126
37	Rajasthan	Bodana	27°36' 21.24"	72°6' 31.27"	168
38	Rajasthan	Churu	28°4' 56.31"	74°36' 0.39"	312
39	Rajasthan	Jodhpur	26°28' 16.9"	73°07' 13.0"	256
40	Rajasthan	Kota	25°08' 27.3"	75°48' 35.1"	304
41	Rajasthan	Mathania	26°30' 55.8"	72°59' 7.2'	271
42	Rajasthan	Phalodi	27°7' 03.6"	72°20' 43.0"	242
43	Rajasthan	Pokhran	26°54' 58.4"	71°55' 39.5"	293
44	Rajasthan	Sirohi	24°51' 57.8"	72°49' 58.0"	362
45	Tamil Nadu	Chennai(CWET)	12°57' 21.79"	80°12' 59.75"	1
46	Tamil Nadu	Erode	11°16' 12.00"	77°36' 15.29"	272
47	Tamil Nadu	Karaikudi	10°5' 08.48"	78°47' 46.82"	101
48	Tamil Nadu	Kayathar	8°56' 42.50"	77°43' 24.12"	102
49	Tamil Nadu	Ramanathpuram	9°22' 11.44"	78°46' 11.92"	10
50	Tamil Nadu	Trichy	10°45' 35.47"	78°48' 45.33"	87
51	Tamil Nadu	Vellore	12°58' 26"	79°9' 32"	231

¹ "List of SRRA stations with Coordinates", *The Centre for Wind Energy Technology (C-WET)*, http://www.cwet.tn.nic.in/html/srra_stations.html (accessed April 27, 2012).