rable 5.2 - Mean Monthly Global Solar Radiant Exposure (MJIII) Over India													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minicoy	17.77	20.20	21.79	21.38	18.19	16.01	16.49	17.60	18.33	18.01	16.69	16.59	18.34
Thiruvananthapuram	19.93	22.05	23.40	21.38	19.61	17.38	17.84	19.00	20.53	18.17	16.56	18.07	19.45
Port Blair	18.44	21.06	21.22	20.75	15.76	13.94	13.77	14.50	15.48	16.14	16.74	17.09	17.27
Bangalore	20.42	23.35	23.70	23.64	22.88	17.72	16.71	16.16	18.89	18.42	17.45	17.35	19.70
Chennai	17.62	21.07	23.45	23.76	22.54	20.59	19.00	18.73	19.41	16.41	14.39	14.96	19.34
Goa	19.88	22.40	23.55	24.22	23.64	16.67	14.78	15.86	19.40	19.53	19.16	18.61	20.00
Hyderabad	19.64	22.03	24.22	24.87	23.87	20.13	18.50	17.56	19.77	18.67	18.07	17.96	20.34
Visakhaptnam	17.42	20.01	21.82	22.99	22.18	17.49	16.02	16.35	17.06	17.62	16.40	16.32	18.51
Pune	17.29	20.58	23.11	24.49	25.18	19.32	16.10	15.68	18.73	19.25	17.64	16.45	19.51
Mumbai	16.57	19.49	22.24	23.82	23.36	17.49	13.45	14.52	16.35	18.01	16.60	15.46	18.25
Nagpur	16.15	19.21	21.93	23.95	23.59	18.85	14.81	14.78	17.54	18.66	16.36	15.38	18.34
Bhavnagar	17.92	20.92	24.16	26.23	26.54	22.31	16.28	16.16	19.91	21.06	18.33	16.55	20.99
Kolkata	13.53	15.68	18.99	21.06	20.64	17.17	15.09	15.57	14.90	15.27	13.85	12.68	16.17
Ahmedabad	16.34	19.57	22.85	25.03	25.18	21.67	15.52	15.50	18.63	18.92	16.74	15.23	19.30
Bhopal	15.80	18.72	22.46	25.34	24.31	19.92	14.42	13.69	18.73	19.17	17.02	16.48	18.65
Ranchi	15.63	17.69	20.82	22.21	21.19	16.75	14.50	13.89	14.90	15.76	15.34	14.68	16.39
Varanasi	12.91	17.15	20.92	23.12	23.03	20.87	15.67	17.29	16.35	17.16	14.47	12.15	17.68
Shillong	14.11	16.67	19.27	21.13	18.41	16.42	16.06	14.93	14.03	15.18	15.63	14.43	16.27
Patna	13.01	17.00	20.94	22.86	22.66	20.27	15.72	16.71	16.39	16.73	14.71	11.87	17.25
Jodhpur	15.53	18.20	21.76	24.24	25.10	23.58	19.67	19.51	21.06	19.11	16.17	14.84	19.97
Jaipur	15.30	18.02	22.00	25.50	26.11	23.94	18.48	17.60	19.62	18.17	15.40	13.47	19.42
NewDelhi	13.32	16.42	20.64	24.07	24.43	22.54	19.07	17.79	18.90	16.80	14.13	11.93	18.25
Srinagar	4.77	9.77	14.25	18.24	20.25	22.26	20.16	18.75	18.22	13.89	9.24	6.99	15.40

271

Table 5.3 - Mean Monthly Diffuse Solar Radiant Exposure (MJm⁻²) Over India

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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minicoy	6.44	6.93	7.37	7.74	7.77	7.98	8.29	8.28	7.81	6.61	5.75	5.64	7.24
Thiruvananthapuram	6.75	7.01	7.84	9.22	9.69	10.16	10.69	10.70	9.38	8.73	8.10	6.90	8.72
PortBlair	5.86	5.77	6.22	6.84	8.31	8.47	8.99	9.42	8.96	7.48	6.99	5.92	7.36
Bangalore	5.64	4.67	6.11	7.37	8.66	10.80	10.68	11.11	10.23	8.45	7.10	6.18	7.83
Chennai	7.58	6.88	7.25	8.05	9.20	10.57	11.04	11.18	9.69	8.52	7.75	7.62	8.76
Goa	5.10	5.55	7.58	8.84	9.87	10.55	10.88	11.64	10.59	8.48	6.14	5.00	8.10
Hyderabad	4.67	4.85	6.22	6.42	7.03	8.64	10.04	9.32	8.20	6.69	5.17	4.32	6.76
Visakhapatnam	6.15	6.23	7.64	8.66	9.59	10.51	10.56	10.56	9.47	6.96	6.26	5.70	8.24
Pune	4.42	4.77	5.79	6.57	7.83	10.99	11.84	11.66	10.01	6.70	5.15	4.28	7.38
Mumbai	6.09	6.79	7.17	8.25	9.82	10.85	10.45	11.41	10.61	8.73	6.63	6.16	8.52
Nagpur	4.93	5.77	6.87	7.61	9.16	10.28	10.52	10.38	9.16	6.97	5.37	4.72	7.53
Bhavnagar	4.37	5.41	6.55	7.22	8.55	11.71	12.29	12.29	9.41	5.90	4.44	4.62	7.60
Kolkata	5.92	6.77	7.72	9.27	10.67	10.67	10.28	9.76	8.68	7.37	5.94	5.37	8.19
Ahmedabad	4.58	5.43	6.63	7.46	8.85	11.11	11.41	11.28	9.17	5.99	4.74	4.43	7.57
Bhopal	4.26	4.87	6.28	7.43	9.56	10.02	9.93	9.95	8.95	5.94	4.86	4.43	7.16
Ranchi	4.85	5.82	5.96	7.06	8.24	9.02	9.12	9.63	8.52	6.64	5.52	5.42	7.21
Varanasi	5.50	6.07	7.09	8.55	9.94	10.77	10.54	9.84	8.25	6.20	5.36	5.39	7.54
Shillong	4.79	5.79	7.11	8.39	9.87	11.14	11.56	10.56	9.35	7.21	4.96	4.00	7.87
Patna	5.55	6.02	6.82	8.64	10.14	10.77	10.04	9.54	8.16	6.13	5.08	5.19	7.53
Jodhpur	4.23	5.33	6.67	7.97	9.56	10.77	11.90	11.00	7.43	5.25	4.13	3.98	7.15
Jaipur	4.61	6.10	7.29	8.21	9.52	10.78	10.92	10.13	7.57	5.41	5.09	4.63	7.47
NewDelhi	5.21	6.22	7.56	8.83	10.68	11.66	11.83	10.27	8.27	6.37	4.92	4.87	7.82
Srinagar	3.79	5.51	6.20	5.95	6.14	6.35	6.54	7.22	4.88	3.49	4.38	4.10	5.40

7.7

Table 5.4 - Mean Monthly Global Solar Radiant Exposures on Cloudless Days (MJm⁻²) Over India

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Minicoy	19.362	21.732	24.022	24.39	23.68		25.58	25.97	26.17	21.61	20.76	18.23
Thiruvananthapuram	22.202	23.912	24.362	25.78	2	24.92			24.95	26.88		20.94
PortBlair	18.682	20.092	23.262	23.69	20.20					16.60	21.17	19.89
Bangalore	22.87	24.122	24.942	25.75	25.62			22.16		24.54	22.81	21.42
Chennai	21.922	24.242	25.412	25.14	25.122	25.07	24.70	24.11	24.63	23.07	21.70	21.12
Goa	20.392	22.552	24.742	25.35	26.70				27.85	24.60	20.48	20.88
Hyderabad		2	29.882	26.17	24.362	24.89					15.10	
Visakhapatnam	19.192	21.312	22.472	24.72	25.94		25.84		24.09	21.91	19.63	17.81
Pune	18.062	23.182	24.992	26.55	27.192	26.42			24.49	21.74	19.41	17.48
Mumbai	17.17	21.652	22.402	24.49	24.612	24.93			22.51	19.20	17.42	15.61
Nagpur	17.87	20.162	23.502	25.78	26.622	26.96		22.91	23.64	21.78	19.01	16.66
Bhavnagar	18.322	21.512	24.602	26.74	27.262	27.39			23.43	21.33	18.85	17.16
Kolkata		2	21.39		2	22.79						
Ahmedabad	17.482	20.492	24.012	26.28	26.392	26.15		22.31	23.22	20.32	17.68	16.26
Bhopal	18.302	20.402	24.592	27.47	25.732	25.17	23.49	20.02	26.11	22.02	18.91	15.96
Ranchi	20.662	22.652	24.872	27.29	25.192	28.21	25.58		21.77	20.44	20.42	18.60
Varanasi	16.022	20.142	22.672	25.16	24.952	24.72	20.68	23.87	18.10	18.67	14.23	
Shillong	15.212	21.632	24.002	26.01	27.902	25.17				23.04	20.30	18.53
Patna		20.982	23.472	25.59	24.822	25.33	23.50	22.09	23.60	22.89		
Jodhpur	17.06	L9.942	23.812	25.28	26.082	25.09	24.29	23.33	23.31	19.72	17.42	16.65
Jaipur	16.88	L9.572	23.722	27.06	27.542	27.02	26.31	25.19	21.07	19.76	17.09	12.38
NewDelhi	15.742	20.272	23.142	27.68	27.53		25.26	24.03	25.05	20.20	17.17	14.54
Srinagar		L3.922	21.232	25.65	26.442	27.71	24.08	23.87	21.47	17.38	14.72	4.98

Table 5.5 – Mean Monthly Diffuse Solar radiant Exposure on cloudless days Over India (MJm⁻²)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Minicoy	4.06	6.10	5.31	6.54	8.79		6.41	2.94	2.91	4.38	3.89	3.72
Thiruvananthapuram	5.26	4.72	6.29	6.24		6.70			5.31	6.15		4.07
PortBlair	3.88	3.60	4.52	5.97	3.56					4.55	5.17	4.33
Bangalore	3.49	3.56	5.08	5.89	6.88				12.37	4.12	3.00	4.36
Chennai	4.73	5.22	6.25	7.43	7.94	7.07	6.90	8.32	6.91	5.34	5.42	4.96
Goa	4.09	4.72	6.52	6.72	5.64				7.48	4.42	4.05	3.41
Hyderabad			4.14	6.03	4.52	10.21					2.52	
Visakhapatnam	4.29	5.44	5.96	7.14	7.29		4.61		6.30	4.67	4.17	4.06
Pune	4.00	4.53	4.52	5.53	6.32	8.80			7.40	4.57	3.43	3.18
Mumbai	5.19	4.51	10.01	8.45	8.09	15.22	19.19		6.36	7.65	6.26	7.90
Nagpur	4.25	5.43	6.16	6.25	7.45	8.50		10.53	6.28	5.72	6.27	4.11
Bhavnagar	4.04	4.83	5.92	6.78	8.07	9.03			5.95	5.36	3.91	4.20
Kolkata			5.09			9.77						
Ahmedabad	3.69	4.66	5.70	6.51	8.21	8.46		9.02	6.00	4.86	3.99	3.69
Bhopal	3.11	4.12	4.72	6.26	8.87	9.26	14.15		5.94	4.64	3.66	3.35
Ranchi	4.08	6.57	5.09	6.07	7.17	5.63	8.00		4.41	5.09	4.76	4.53
Varanasi	4.26	4.25	6.03	6.82	8.80	9.60	8.94	7.44	8.43	5.95	5.53	
Shillong	2.77	3.46	5.09	6.18	6.64	8.63		7.87		2.02	2.58	2.66
Patna		5.22	5.56	7.22	9.13	9.55	9.34	8.81	5.83	4.37		
Jodhpur	3.32	3.57	4.45	6.55	8.24	8.37	9.72	8.27	6.00	4.56	3.67	3.26
Jaipur	3.35	4.83	5.19	6.67	7.25	8.80	10.64	7.56	6.71	4.76	6.44	7.11
NewDelhi	3.32	3.80	4.26	5.52	9.38		9.78	8.28	7.23	4.80	3.64	3.51
Srinagar			3.31	4.82	4.44	5.29	3.51	4.58	4.42	2.74	4.00	

Table 5.6 - Ratios of Diffuse to Global Solar Radiant Exposures

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Minicoy	0.36	0.34	0.34	0.36	0.43	0.50	0.50	0.47	0.43	0.37	0.34	0.34	0.39
Thiruvananthapuram	0.34	0.32	0.34	0.43	0.49	0.58	0.60	0.56	0.46	0.48	0.49	0.38	0.45
PortBlair	0.32	0.27	0.29	0.33	0.53	0.61	0.65	0.65	0.58	0.46	0.42	0.35	0.43
Bangalore	0.28	0.20	0.26	0.31	0.38	0.61	0.64	0.69	0.54	0.46	0.41	0.36	0.40
Chennai	0.43	0.33	0.31	0.34	0.41	0.51	0.58	0.60	0.50	0.52	0.54	0.51	0.45
Goa	0.26	0.25	0.32	0.36	0.42	0.63	0.74	0.73	0.55	0.43	0.32	0.27	0.41
Hyderabad	0.24	0.22	0.26	0.26	0.29	0.43	0.54	0.53	0.41	0.36	0.29	0.24	0.33
Visakhapatnam	0.35	0.31	0.35	0.38	0.43	0.60	0.66	0.65	0.56	0.40	0.38	0.35	0.45
Pune	0.26	0.23	0.25	0.27	0.31	0.57	0.74	0.74	0.53	0.35	0.29	0.26	0.38
Mumbai	0.37	0.35	0.32	0.35	0.42	0.62	0.78	0.79	0.65	0.48	0.40	0.40	0.47
Nagpur	0.31	0.30	0.31	0.32	0.39	0.55	0.71	0.70	0.52	0.37	0.33	0.31	0.41
Bhavnagar	0.24	0.26	0.27	0.28	0.32	0.52	0.75	0.76	0.47	0.28	0.24	0.28	0.36
Kolkata	0.44	0.43	0.41	0.44	0.52	0.62	0.68	0.63	0.58	0.48	0.43	0.42	0.51
Ahmedabad	0.28	0.28	0.29	0.30	0.35	0.51	0.74	0.73	0.49	0.32	0.28	0.29	0.39
Bhopal	0.27	0.26	0.28	0.29	0.39	0.50	0.69	0.73	0.48	0.31	0.29	0.27	0.38
Ranchi	0.31	0.33	0.29	0.32	0.39	0.54	0.63	0.69	0.57	0.42	0.36	0.37	0.44
Varanasi	0.43	0.35	0.34	0.37	0.43	0.52	0.67	0.57	0.50	0.36	0.37	0.44	0.43
Shillong	0.34	0.35	0.37	0.40	0.54	0.68	0.72	0.71	0.67	0.47	0.32	0.28	0.48
Patna	0.43	0.35	0.33	0.38	0.45	0.53	0.64	0.57	0.50	0.37	0.35	0.44	0.44
Jodhpur	0.27	0.29	0.31	0.33	0.38	0.46	0.60	0.56	0.35	0.27	0.26	0.27	0.36
Jaipur	0.30	0.34	0.33	0.32	0.36	0.45	0.59	0.58	0.39	0.30	0.33	0.34	0.38
NewDelhi	0.39	0.38	0.37	0.37	0.44	0.52	0.62	0.58	0.44	0.38	0.35	0.41	0.43
Srinagar	0.79	0.56	0.44	0.33	0.30	0.29	0.32	0.39	0.27	0.25	0.47	0.59	0.35

Table 5.7 - Ratios of Diffuse to Global Radiant Exposures on Cloudless Days

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Minicoy	0.21	0.28	0.22	0.27	0.37		0.25	0.11	0.11	0.20	0.19	0.20
Thiruvananthapuram	0.24	0.20	0.26	0.24		0.27			0.21	0.23		0.19
PortBlair	0.21	0.18	0.19	0.25	0.18					0.27	0.24	0.22
Bangalore	0.15	0.15	0.20	0.23	0.27					0.17	0.13	0.20
Chennai	0.22	0.22	0.25	0.30	0.32	0.28	0.28	0.35	0.28	0.23	0.25	0.23
Goa	0.20	0.21	0.26	0.27	0.21				0.27	0.18	0.20	0.16
Hyderabad			0.14	0.23	0.19	0.41					0.17	
Visakhapatnam	0.22	0.26	0.27	0.29	0.28		0.18		0.26	0.21	0.21	0.23
Pune	0.22	0.20	0.18	0.21	0.23	0.33			0.30	0.21	0.18	0.18
Mumbai	0.30	0.21	0.45	0.35	0.33	0.61			0.28	0.40	0.36	0.51
Nagpur	0.24	0.27	0.26	0.24	0.28	0.32		0.46	0.27	0.26	0.33	0.25
Bhavnagar	0.22	0.22	0.24	0.25	0.30	0.33			0.25	0.25	0.21	0.24
Kolkata			0.24			0.43						
Ahmedabad	0.21	0.23	0.24	0.25	0.31	0.32		0.40	0.26	0.24	0.23	0.23
Bhopal	0.17	0.20	0.19	0.23	0.34	0.37	0.60		0.23	0.21	0.19	0.21
Ranchi	0.20	0.29	0.20	0.22	0.28	0.20	0.31		0.20	0.25	0.23	0.24
Varanasi	0.27	0.21	0.27	0.27	0.35	0.39	0.43	0.31	0.47	0.32	0.39	
Shillong	0.18	0.16	0.21	0.24	0.24	0.34				0.09	0.13	0.14
Patna		0.25	0.24	0.28	0.37	0.38	0.40	0.40	0.25	0.19		
Jodhpur	0.19	0.18	0.19	0.26	0.32	0.33	0.40	0.35	0.26	0.23	0.21	0.20
Jaipur	0.20	0.25	0.22	0.25	0.26	0.33	0.40	0.30	0.32	0.24	0.38	0.57
NewDelhi	0.21	0.19	0.18	0.20	0.34		0.39	0.34	0.29	0.24	0.21	0.24
Srinagar			0.16	0.19	0.17	0.19	0.15	0.19	0.21	0.16	0.27	