

## Appendix - 2

## Meteorological data recorded at Research Farm, Selakui (Dehradun) and Research Centre's during 2014-15

Meteorological parameters	April 2014	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan. 2015	Feb.	March
<b>Dehradun</b>												
Rainfall (mm)	15.9	15.3	146.8	376.7	370.6	135.9	17.7	0.0	32.2	33.9	24.4	168.8
No. of Rainy days	3	2	8	16	13	6	3	0	3	4	4	6
Mean Max. Temp. (°C)	31.5	35.9	37.0	31.6	32.4	31.5	29.5	26.8	21.5	18.5	23.5	26.1
Mean Min. Temp. (°C)	11.6	16.6	20.4	22.8	22.7	20.5	14.2	7.3	3.5	5.8	8.1	10.7
Mean wind velocity (km/hr)	1.8	2.4	1.7	1.0	0.9	0.9	0.8	0.8	1.0	1.1	1.2	1.5
Av. Daily bright sunshine (hrs)	8.5	8.2	6.1	2.3	3.6	6.1	5.9	7.3	5.8	4.5	5.3	6.9
Av. Daily evaporation (mm)	4.6	6.5	5.2	2.4	2.4	2.7	2.2	1.7	1.1	1.0	1.6	2.4
Relative humidity (%) 07.19 hrs 14.19 hrs	86.2	73.7	77.2	93.2	95.7	94.8	94.6	93.2	93.0	94.7	92.3	94.2
	35.4	33.5	45.7	81.0	76.5	70.2	60.4	45.3	50.8	62.1	54.4	52.6
<b>Chandigarh</b>												
Rainfall (mm)	30.6	48.4	89.6	268.4	293.5	086.8	14.2	0.0	111.4	66.8	46.4	135.9
No. of Rainy days	5	4	5	11	10	5	2	0	3	7	5	9
Mean Max. Temp. (°C)	32.2	36.7	40.2	33.8	32.8	32.4	30.8	27.6	20.5	17.0	23.3	26.3
Mean Min. Temp. (°C)	13.3	18.1	22.1	23.3	22.7	20.4	15.7	8.8	4.7	6.2	9.5	11.6
Mean wind velocity (km/hr)	2.8	3.0	2.8	2.3	1.5	2.1	2.0	1.7	1.5	1.5	2.5	2.9
Av. Daily bright sunshine (hrs)	9.2	8.7	7.5	5.0	5.9	6.2	5.6	7.9	5.5	3.4	2.1	3.1
Av. Daily evaporation (mm)	5.5	6.7	8.0	4.6	3.8	3.6	3.1	2.6	1.8	1.3	5.7	6.7
Relative humidity (%) 07.23 hrs 14.23 hrs	68	61	62	85	88	87	80	79	88	93	87	82
Av. vapour pressure (mm) 07.23 hrs 14.23 hrs	30	29	33	65	65	59	44	31	48	64	48	53
	11.4	14.8	18.6	22.6	22.5	19.2	13.3	8.1	6.6	7.5	8.8	10.2
	10.4	12.3	16.4	24.1	23.6	20.6	14.5	8.3	7.7	8.6	10.1	12.4
<b>Udhagamandalam</b>												
Rainfall (mm)	54.1	225.8	77.8	248.6	241.1	196.3	189.3	59.6	51.8	0.0	0.0	77.7
No. of Rainy days	6	10	12	14	12	11	12	9	4	0	0	4
Mean Max. Temp. (°C)	23.3	21.9	21.4	16.9	17.6	18.3	18.8	18.3	18.9	19.6	19.9	20.8
Mean Min. Temp. (°C)	12.0	13.0	13.1	12.3	12.4	12.5	13.0	10.8	9.7	6.2	7.3	10.6
Av. Daily evaporation (mm)	4.4	3.2	3.3	2.1	2.5	2.7	2.4	2.3	2.3	2.6	3.4	3.6
Mean wind velocity (km/hr)	4.4	2.5	4.8	8.2	4.4	4.5	3.2	3.3	2.8	2.8	3.1	4.0
Bright sunshine (hrs/day)	6.4	5.0	4.6	1.8	2.2	4.2	4.4	4.2	4.7	7.9	8.4	7.3
Relative humidity (%) 07.23 hrs 14.23 hrs	81.5	91.4	90.2	94.0	92.0	90.1	91.1	87.8	90.7	74.4	73.0	81.5
	53.4	71.0	76.6	86.9	84.7	79.9	79.8	74.5	75.8	56.5	47.5	57.5

Meteorological parameters	April 2014	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan. 2015	Feb.	March
<b>Agra</b>												
Rainfall (mm)	6.1	0.0	56.6	155.2	93.3	44.3	5.0	0.0	11.5	37.4	0.0	85.2
No. of Rainy days	1	0	2	6	4	4	1	0	1	3	0	4
Mean Max. Temp.(°C)	37.2	41.5	43.0	37.1	35.7	35.1	34.6	30.1	21.8	16.8	26.3	28.9
Mean Min. Temp. (°C)	18.4	23.7	27.4	27.0	26.1	24.5	19.3	11.6	7.0	7.2	11.5	14.3
Mean wind velocity (km/hr)	3.6	4.7	5.2	4.2	3.9	4.0	2.5	1.7	2.5	2.7	3.7	4.2
Av. Daily bright sunshine (hrs)	9.5	9.2	6.1	4.0	6.5	7.4	7.6	5.3	4.6	1.8	4.5	7.3
Av. Daily evaporation (mm)	7.0	10.6	10.6	6.1	5.6	5.0	3.7	2.5	1.8	0.7	3.4	3.7
Relative humidity (%) 07.19 hrs 14.19 hrs	64 22	56 24	57 31	81 53	85 58	86 51	84 35	82 27	87 54	94 72	86 45	91 45
<b>Kota</b>												
Rainfall (mm)	0.0	11.8	12.0	155.8	387.8	80.6	0.0	0.0	0.0	22.8	0.0	129.0
No. of Rainy days	0	01	02	10	09	06	0	0	0	4	0	4
Mean Max. Temp.(°C)	37.6	40.4	41.6	36.1	31.8	32.7	34.4	29.9	24.1	19.9	27.3	30.0
Mean Min. Temp. (°C)	19.4	24.2	28.6	27.3	24.9	23.3	18.6	12.9	7.4	7.6	10.8	15.3
Mean wind velocity (km/hr)	3.1	4.4	7.4	5.7	4.2	3.3	2.0	1.2	1.5	2.2	2.4	3.2
Av. Daily bright sunshine (hrs)	9.7	10.2	9.2	5.4	5.6	7.4	8.5	6.4	5.8	5.0	8.7	8.0
Av. Daily evaporation (mm)	7.2	8.6	10.0	7.0	4.0	3.7	4.2	3.0	2.0	1.5	3.1	3.8
Relative humidity (%) 07.27 hrs 14.27 hrs	55 18	45 18	50 26	73 54	88 71	88 62	82 35	89 30	89 40	91 61	87 44	85 39
Av. vapour pressure (mm) 07.27 hrs 14.27 hrs	11.7 8.6	13.8 9.8	17.8 14.2	21.8 21.0	23.4 23.0	21.3 21.5	16.2 13.7	11.0 9.7	7.6 8.1	6.1 8.1	4.4 8.1	3.9 15.0
<b>Vasad</b>												
Rainfall (mm)	4.0	3.3	6.8	618.5	209.8	357.1	0.0	8.4	0.0	1.0	0.0	16.2
No. of Rainy days	1	1	1	10	10	11	0	1	0	0	0	1
Mean Max. Temp.(°C)	38.3	39.9	38.4	34.5	32.7	32.0	35.5	33.2	28.1	26.8	31.4	34.0
Mean Min. Temp. (°C)	18.3	22.3	25.1	23.5	22.4	21.5	17.6	14.5	7.8	7.4	9.3	12.6
Mean wind velocity (km/hr)(km/day)	4.10	5.77	9.71	7.03	4.79	3.28	1.59	1.55	3.60	4.10	3.42	4.00
Av. Daily bright sunshine (hrs)	10.34	10.63	9.16	4.25	4.80	5.46	8.34	8.21	8.42	8.28	9.49	9.09
Av. Daily evaporation (mm)	6.19	7.12	7.55	4.58	2.85	2.68	3.80	3.02	2.66	2.63	3.68	4.78
Relative humidity (%) 07.16 hrs 14.16 hrs	78 37	73 35	78 47	88 67	92 75	94 73	84 43	87 43	85 39	91 44	88 73	73.3 39.7
Av. vapour pressure (mm) 07.16 hrs 14.16 hrs	19.4 18.2	22.4 18.2	25.1 22.3	25.0 24.1	25.0 25.3	24.1 24.3	20.0 17.2	16.4 15.5	10.3 10.7	10.3 11.1	22.9 12.1	14.5 15.0

Meteorological parameters	April 2014	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan. 2015	Feb.	March
<b>Datia</b>												
Rainfall (mm)	9.8	3.2	42	251.6	111.6	206.2	4.8	0	38.4	35.6	15.4	84.2
No. of Rainy days	2	0	4	9	5	9	1	0	2	4	2	7
Mean Max. Temp.(°C)	38.4	41.8	43.1	36.7	34.6	33.5	34.4	31	22.7	18.2	27.1	30.1
Mean Min. Temp. (°C)	19.1	24.4	27.6	26.2	24.5	22.9	17.6	11.1	6.6	7.4	11.1	14.8
Mean wind velocity (km/hr)	2.5	3.5	5.6	1.9	1.7	1.5	1.9	1.8	1.2	1.5	1.7	2.5
Av. Daily bright sunshine (hrs)	9.9	10.1	8.8	4.5	5.9	7.6	8.4	6.9	5.7	3.9	8.1	8.3
Av. Daily evaporation (mm)	10.6	10.3	10.8	5.5	4.1	4.2	4	2.8	1.9	1.6	4.2	5.0
Relative humidity (%) 07.16 hrs 14.16 hrs	60	46	51	77	87	89	86	90	92	94	91	90
	18	19	28	60	65	61	37	31	48	68	46	41
<b>Bellary</b>												
Rainfall (mm)	49.4	81.2	63.8	37.1	111.1	53.4	111.3	7.8	10.9	0.0	0.0	0.5
No. of Rainy days	3	6	2	5	7	5	5	1	2	0	0	0
Mean Max. Temp.(°C)	38.4	37.1	35.8	33.2	32.4	31.7	31.9	30.0	29.0	30.0	33.0	35.9
Mean Min. Temp. (°C)	24.1	24.5	24.6	23.8	23.0	22.5	21.6	18.3	16.7	15.9	16.7	21.7
Mean wind velocity (km/hr)	4.7	6.0	6.8	8.8	5.0	4.0	2.5	2.4	2.3	3.6	4.7	4.0
Av. Daily bright sunshine (hrs)	8.8	8.8	8.1	3.6	5.1	6.3	7.5	7.2	7.0	8.7	10.2	9.0
Av. Daily evaporation (mm)	9.3	8.9	8.4	7.0	6.1	5.5	5.5	4.5	4.3	5.1	6.7	8.0
Relative humidity (%) 07.23 hrs 14.23 hrs	70	75	74	77	85	88	88	88	88	82	75	67
	26	33	39	49	53	54	50	45	49	34	24	27
<b>Koraput</b>												
Rainfall (mm)	38.7	122.9	125.9	445.5	385.0	312.3	182.4	0.4	1.4	0.7	0.2	14.6
No. of Rainy days	3	6	9	17	22	15	4	0	0	0	0	3
Mean Max. Temp.(°C)	34.9	33.3	31.9	25.8	27.1	27	28	27.7	26.6	25.7	29.7	32.7
Mean Min. Temp. (°C)	17.7	18.8	20.6	19.3	18.8	18.1	15.3	9.9	6.9	6.4	8.5	13.5
Mean wind velocity (km/hr)	2.2	2.6	3.2	5.4	3.3	3.0	1.6	1.3	0.8	0.5	0.6	0.9
Av. Daily bright sunshine (hrs)	8.8	8.3	4.7	.9	2.3	2.8	6.0	7.4	7.5	8.3	8.8	8.5
Av. Daily evaporation (mm)	5.2	4.7	3.8	1.6	1.9	2.2	2.3	2.6	2.3	2.6	3.7	4.6
Relative humidity (%) 06.59 hrs 13.59 hrs	79	85	87	94	96	96	94	93	93	93	86	88
	32	45	59	83	84	76	62	46	39	35	26	32