

**Supplementary Table S1: Annual average weather data recorded at ICAR-IIFSR agrometeorology observatory during 2006-2017, data represent mean  $\pm$  SD (average/annual), Kurtosis and Skewness test.**

Parameter	Mean $\pm$ SD	Kurtosis	Skewness
----- 2006 year -----			
Mean Max Temp. (°C)	31.24 $\pm$ 5.76	-0.18	-0.76
Mean Min Temp. (°C)	17.54 $\pm$ 8.10	-1.33	0.03
Annual Rainfall (mm)	565.90 $\pm$ 64.44	3.70	1.77
Mean Relative Humidity (%)	62.16 $\pm$ 10.09	1.24	-1.33
Mean Sunshine hours (per day)	7.11 $\pm$ 0.92	-1.35	-0.06
----- 2007 year -----			
Mean Max Temp. (°C)	30.69 $\pm$ 6.73	-1.46	-0.34
Mean Min Temp. (°C)	16.71 $\pm$ 6.79	-1.38	-0.26
Annual Rainfall (mm)	563.00 $\pm$ 56.42	2.30	1.43
Mean Relative Humidity (%)	70.51 $\pm$ 6.49	-0.34	-0.85
Mean Sunshine hours (per day)	6.59 $\pm$ 1.42	-1.22	0.58
----- 2008 year -----			
Mean Max Temp. (°C)	31.15 $\pm$ 5.56	-0.99	-0.76
Mean Min Temp. (°C)	17.30 $\pm$ 7.11	-1.48	-0.43
Annual Rainfall (mm)	540.20 $\pm$ 64.43	0.13	1.33
Mean Relative Humidity (%)	67.22 $\pm$ 13.44	0.30	-0.91
Mean Sunshine hours (per day)	6.10 $\pm$ 1.68	-0.19	0.72
----- 2009 year -----			
Mean Max Temp. (°C)	31.64 $\pm$ 6.66	-0.90	-0.25
Mean Min Temp. (°C)	16.56 $\pm$ 7.85	-1.80	-0.19
Annual Rainfall (mm)	249.80 $\pm$ 29.59	-0.29	1.22
Mean Relative Humidity (%)	69.24 $\pm$ 15.49	-0.48	-1.10
Mean Sunshine hours (per day)	6.48 $\pm$ 1.54	-1.45	0.18
----- 2010 year -----			
Mean Max Temp. (°C)	32.24 $\pm$ 7.06	0.07	-0.51
Mean Min Temp. (°C)	16.71 $\pm$ 7.86	-1.19	-0.66
Annual Rainfall (mm)	739.40 $\pm$ 110.30	1.24	1.60
Mean Relative Humidity (%)	62.10 $\pm$ 13.96	-0.74	-0.85
Mean Sunshine hours (per day)	5.91 $\pm$ 1.91	-1.29	0.12
----- 2011 year -----			
Mean Max Temp. (°C)	30.16 $\pm$ 5.83	-0.82	-0.49
Mean Min Temp. (°C)	16.66 $\pm$ 8.35	-1.47	-0.42
Annual Rainfall (mm)	697.30 $\pm$ 85.04	0.13	1.35
Mean Relative Humidity (%)	72.64 $\pm$ 8.70	0.56	-0.48
Mean Sunshine hours (per day)	5.99 $\pm$ 1.87	-0.91	-0.03
----- 2012 year -----			

Mean Max Temp. (°C)	30.44 ± 7.26	-0.87	-0.33
Mean Min Temp. (°C)	15.70 ± 8.05	-1.85	-0.09
Annual Rainfall (mm)	808.40 ± 176.07	11.61	3.39
Mean Relative Humidity (%)	71.60 ± 8.65	-0.08	-0.69
Mean Sunshine hours (per day)	6.08 ± 1.55	-1.14	-0.17
----- 2013 year -----			
Mean Max Temp. (°C)	29.83 ± 6.61	-0.49	-0.55
Mean Min Temp. (°C)	16.24 ± 7.24	-1.57	-0.22
Annual Rainfall (mm)	1012.20 ± 108.90	0.30	1.30
Mean Relative Humidity (%)	72.88 ± 11.70	0.81	-1.19
Mean Sunshine hours (per day)	6.19 ± 1.87	-0.68	0.58
----- 2014 year -----			
Mean Max Temp. (°C)	30.01 ± 7.05	-1.04	-0.53
Mean Min Temp. (°C)	16.69 ± 7.83	-1.72	-0.21
Annual Rainfall (mm)	460.50 ± 28.54	-1.54	0.10
Mean Relative Humidity (%)	71.16 ± 9.21	-1.24	-0.74
Mean Sunshine hours (per day)	6.60 ± 1.71	0.15	-0.47
----- 2015 year -----			
Mean Max Temp. (°C)	30.02 ± 6.67	0.07	-0.77
Mean Min Temp. (°C)	17.61 ± 7.16	-1.59	-0.34
Annual Rainfall (mm)	710.10 ± 67.73	5.44	2.11
Mean Relative Humidity (%)	75.50 ± 7.86	0.32	-0.32
Mean Sunshine hours (per day)	6.45 ± 1.84	-0.04	-0.47
----- 2016 year -----			
Mean Max Temp. (°C)	31.25 ± 5.80	-0.75	-0.64
Mean Min Temp. (°C)	17.32 ± 7.25	-1.76	-0.31
Annual Rainfall (mm)	665.10 ± 94.75	2.91	1.95
Mean Relative Humidity (%)	73.35 ± 10.82	1.97	-1.21
Mean Sunshine hours (per day)	6.25 ± 1.82	-0.72	-0.17
----- 2017 year -----			
Mean Max Temp. (°C)	30.69 ± 6.01	-1.20	-0.39
Mean Min Temp. (°C)	18.11 ± 7.94	-1.21	0.10
Annual Rainfall (mm)	730.30 ± 81.16	0.71	1.39
Mean Relative Humidity (%)	73.03 ± 8.79	-0.05	-0.73
Mean Sunshine hours (per day)	6.52 ± 1.62	-0.60	-0.02