

Supplementary File 1: The geographical and climatic description of the sampling sites

S. No.	Location	Coordinates	Avg. annual temperature (°C)	Avg. annual rainfall (mm)	Avg. relative humidity (%)
1	Anantapur	14.68°N, 77.60°E	30.46	21.80	51.86
2	Cuddapah	14.47°N, 78.82°E	31.30	19.28	54.14
3	Kurnool	15.83°N, 78.05°E	30.52	25.32	52.86
4	Chittoor	13.22°N, 79.10°E	29.39	35.65	64.09
5	Mahbubnagar	16.74°N, 77.98°E	29.09	107.70	53.04
6	Prakasam	15.33°N, 80.03°E	30.17	21.64	65.82
7	Nellore	14.44°N, 79.99°E	30.51	24.65	64.15
8	Guntur	16.30°N, 80.44°E	30.75	35.82	67.32
9	Eluru	16.71°N, 81.10°E	30.25	41.02	69.00
10	Kakinada	16.93°N, 82.22°E	29.33	42.11	70.99
11	Krishna	16.62°N, 81.08°E	30.77	30.92	67.16
12	Nalgonda	17.05°N, 79.27°E	30.22	105.69	55.45
13	Visakhapatnam	17.69°N, 83.22°E	28.52	37.47	71.03
14	Vizianagaram	18.12°N, 83.41°E	29.68	33.23	67.28
15	Srikakulam	18.30°N, 83.90°E	28.86	41.78	71.40

Source: India Meteorological Department (IMD), Climatological Normals (2017-2020), available at (<https://weatherandclimate.com/india/andhra-pradesh/locations>)