

Table S-1 Seasonally averaged meteorological parameters during the study period.

	Av. Temp (°C)	Max Temp (°C)	Min Temp (°C)	Humidity (%)	Dew Point (°C)	Pressure (hpa)	Wind Speed (Km/h)
Winter	18.3	37.8	7.7	73.4	12.5	763.8	2.1
Summer	34.7	44.0	25.3	44.3	20.0	750.1	5.6
Monsoon	30.4	35.1	23.0	81.9	26.9	750.7	2.6
Post Monsoon	23.0	30.8	9.6	70.1	17.1	758.1	0.9
Annual	26.6	44.0	7.7	67.4	19.1	755.7	2.8

Table S- 2 The analytical details of the soluble ion data analysis using IC

Component	Precision (%)	Accuracy (%)	Recovery (%)
Na⁺	96	98	101.25
NH₄⁺	98.3	97	95.05
K⁺	98	98	98.92
Mg²⁺	99.6	99	99.69
Ca²⁺	98.7	97	95.83
F⁻	99.1	98	92.41
Cl⁻	95	97	100.28
NO₂⁻	98.4	97	97.87
NO₃⁻	98.5	98	98.61
SO₄²⁻	94.4	96	102.89