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5 Fig. S1 Temporal variability records of: (a) trace metals and (b) major elements in PM_1 at study

⁶ location (Kanpur).



8 Fig. S2 Scatter plot showing excess (xs)-NH₄⁺ correlates with enhanced formation of NO₃⁻ both
9 during day and nighttime.

10 Residual analysis for heterogeneous-phase formation of sulfate and nitrate:













15 Fig. S3 Residual analyses for heterogeneous-phase formation of sulfate and nitrate in PM_1 at

16 Kanpur (IGP).

Residual analysis for aqueous-phase formation of sulfate and nitrate:















22 Fig. S4 Residual analyses for aqueous-phase formation of sulfate and nitrate in PM₁ at Kanpur

23 (IGP)