

CHEMICAL COMPOSITION OF RAINWATER IN RAIPUR

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Rain event samples have been collected at Raipur for the period between 2006-2008. Concentrations of major anions (Cl^- , NO_3^- and SO_4^{2-}) and major cations (H^+ , Ca^{++} and NH_4^+) were determined. Data of 59 rain samples showed that the average pH was 5.0 ± 0.39 . These pH values are fairly similar for the others part of Chhattisgarh region but exceed the values recorded for many parts of the world. Sulphate and nitrate ions are significant compounds in rainfall over Raipur. Sulphates were mostly present as neutral or partially acidic compounds. Acidity in rainwater was mainly influenced by alkaline gases and basic particulate matters (mainly ammonia and calcium) emitted from both natural and anthropogenic sources.

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