

SULPHATION RATE IN GHAZIABAD AND MEERUT AREA OF NATIONAL CAPITAL REGION INDIA

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ABSTRACT

The objectives of the present study was to have a general idea of air pollution profile with respect to SO₂ levels in different areas based on land use pattern i.e. residential, commercial and industrial area in Ghaziabad and Meerut area of National Capital Region India during July, 2009 to June, 2011. Seasonal variation in sulphation rate as well as trend analysis were carried out. Furthermore, increasing trends of average sulphation rate level from residential (0.138 to 0.310mgSO₃/100cm²/day) to commercial (0.221 to 0.411mgSO₃/100cm²/day) and to industrial are (0.285 to 0.542mgSO₃/100cm²/day) have been observed. On the basis of present study, various industrial pockets and sources of air pollution where sulphation rate levels exceed the critical level were also identified. The finding of the study demand the necessity of phase wise SO₂ reduction from the industrial areas, where SO₂ is coming mainly from small and medium scale industries.

KEYWORDS: Air Quality, Air Pollution Profile, Sulphation Rate, Trend Analysis