



**Study on Some air quality parameters in urban area of
Vijayawada (India) in effect of human activities**

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ABSTRACT

Air pollution is increasing day by day in the most of the urban areas and it is create too many health problems. This paper deals to assess the ambient air quality status in the fast growing urban areas of Vijayawada, Andhra Pradesh, India. The magnitude a problem of air pollution has increased is due to unplanned industries, increase of traffic, influxes of people from rural areas and other human activities. The air samples were collected for total suspended particulate matter (TSPM), respirable suspended particulate matter (PM₁₀), sulfur dioxide (SO₂) and nitrogen dioxide (NO₂) during different months from five proposed sites of Vijayawada during November 2009 to February 2010. The five types of sampling sites with different anthropogenic activities i.e. sensitive, residential, commercial, traffic and industrial areas were identified in this city. This analysis data obtained from Vijayawada city reveals a significant increase in the total number of hospital admissions of the patients with acute respiratory diseases in winter season.

Keywords: Air pollution, Health hazardous, Human activity, Nitrogen dioxide and Sulfur dioxide.
