



Assessment of Air Pollution Monitoring Sites in Rural and Urban Areas of Vijayawada (INDIA)

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ABSTRACT

Air pollution is one of the major environmental problems in India and it's creating health problems of urban residents living in Vijayawada city. The high concentration of air pollutants in developing countries and an apparent scale of its impact on the global burden of diseases to human health. This paper deals with the analysis and interpretation of ambient air pollutant concentrations for nitrogen dioxide (NO₂), sulphur dioxide (SO₂), particulate matter with aerodynamic diameter less than 10 µm (PM₁₀) and total suspended particulate matter (TSPM) from five air monitoring sites during summer season (March 2010 to May 2010) in and around Vijayawada and its located in the coastal Andhra region of India. These sampling sites with different human activities such as sensitive, residential, commercial, traffic and industrial areas were indentified in this city. Especially we were conducted questionnaire survey of health conditions in industrial area surroundings of Vijayawada Thermal Power Station (VTPS) in industrial area at Ibrahimpatnam.

Keywords: Urban air pollution, Health effects, Diurnal variation, Anthropogenic activities and Industrial pollution.
