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## **ENVIRONMENTAL IMPACT OF AIR POLLUTION FROM THE CEMENT INDUSTRIES IN KADAPPA DISTRICT IN ANDHRA PRADESH STATE IN REFERENCE TO THE RESPIRATORY SYNDROMES**

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### **ABSTRACT**

*This study examines the significant different in seasonal variations of air pollutant concentrations of Particulate matter, SO<sub>2</sub>, NO<sub>2</sub>, CO and metals like chromium, lead and nickel collected over six spots near the cement industrial plants in Kadappa district due to cement industries. Occupational cement dust exposure has been associated with an increased risk of respiratory diseases in workers who are employed in cement industries are exposed to cement dust for long periods. The adolescent were affected 35 % (male – 20 % and female - 15 %), and old age about 45 % were found. Almost all the persons affected by mild type were reversible to normalcy after inhalation of bronchodilators; severe form of bronchial asthma and COPD response to moderate state. 50 % of severe form of bronchial asthma (status asthmaticus) died during the period of study. Simple test like peak flow meter identified the affected persons and the spirometry study proves the severity. The high morbidity and mortality among the cement industry workers and dwellers in nearby industrial areas may be due to elevated levels of urinary and blood chromium and lead levels and resulting from increased air levels of chromium and lead at the work place.*

**KEY WORDS:** *Air Pollutants, COPD, Asthma, Spirometry, restriction, Kadappa district.*

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