

OPTIMIZATION OF AIR POLLUTANT CAUSING AGENTS USING GOAL PROGRAMMING TECHNIQUES

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ABSTRACT

India is developing rapidly in terms of population, size of cities, economic development, rapid industrialization, and alarming increase in traffic and increasing levels of energy consumption. There is a large exodus of people from villages into urban areas coupled with increased consumption patterns, increased wastage from industrial units and unplanned urban and industrial development has resulted into a problem of air and water pollution. All this has resulted in India becoming among the worst polluted nations in the world. In this paper a lot of emphasis has been placed to air pollution in mega cities like Mumbai, Kolkata and Delhi. India has witnessed steep increase in its population since the period 2001 onwards. Along with there has been a huge increase in the population of urban centres. A rapid increase in number of motor vehicles, industries, fire arms, crackers, etc. has caused havoc in the quality of air.

This paper deals with developing a goal programming model to optimize the usage of all the air pollutant releasing agents (APRA) and thus controlling air pollution and improving air quality in India's metropolitan cities.

Key Words: Air pollution, Agents, Goal programming.

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