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## Development of wind rose diagrams for Kadapa region of Rayalaseema

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**Abstract:** An air quality management is of paramount importance to protect man, domestic animals, crops and materials from damaging exposure to air pollution and requires reliable information on air quality to be collected, analyzed and evaluated. Further, it is necessary to know the trends in air quality for effective regulation. Air pollution processes vary in time and space according to their transport, dispersion, Development of wind rose diagrams for coal used thermal power plant Kadapa removal, etc. based on meteorological aspects. Wind Rose diagrams represent two-way joint distribution of wind direction and wind speed.

This paper presents the development of wind rose diagrams for different environmental applications and to understand the distribution pattern of air pollutants discharged from Rayalaseema Thermal Power Project (scope of 14°42'52"N and longitude of 78°27'29"E) VV Reddy Nagar, Kadapa, and Andhra Pradesh, India.

**Keywords:** Ambient Air quality; contaminants; Meteorology; Power plant; Wind speed; Wind direction.

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