



Dr. K. J. Ramesh

6th Talk of
IMS – IMD Lecture Series

Live Talk
26th September, 2022
1600 -1700 IST

To commemorate the 75th anniversary of Independence of India, the country is celebrating **Azadi Ka Amrit Mahotsav**. Indian Meteorological Society (IMS) and India Meteorological Department (IMD) are jointly celebrating this Mahotsav by organising a series of popular lectures on contemporary topics.

ABOUT THE SPEAKER : Dr. K. J. Ramesh, currently working as Senior Adviser, RIMES. In the recent past he served many important portfolios of GoI and DGM of IMD & PR of India with WMO (2017-19), Member (Technical) Commission for Air Quality Management, National Capital Region Delhi, India & Adjunct Professor, National Institute of Advanced Studies, Bangalore, India. His area of specialization is NWP especially, Model Diagnostics; Monsoon Dynamics & Disaster Mitigation Modelling and associated with weather forecasting, hazard and climate risk assessment and early warning activities. He has many awards and distinctions in his credit viz., elected fellow Andhra Pradesh Academy of Sciences (FAPAS), Telangana Academy of Sciences (FTAS), Indian Climate Congress, IMS and awarded as Honoris Causa Doctor of Science (D. Sc.) by Orissa University of Agriculture & Technology for Contributions of Meteorology for Agriculture.

ABOUT THE TALK : Role of MoES in monitoring and forecasting of environmental pollution. The chaotic nature and complexity of air pollution makes its control a challenging task. Ministry of Earth Sciences established first operational system for air quality monitoring and forecasting in Delhi during 2010. The system was later extended to Pune (2013), Mumbai (2015) and Ahmedabad (2017). Further, MoES institutions (IITM and IMD) have operationalized advanced Air Quality Early Warning System (AQWES) in 2018 and Decision Support System (DSS) for advanced air quality management for Delhi NCR region in 2021.

- ❑ This System is designed to predict air pollution events and give alerts to take necessary steps for air pollution control. DSS is designed to deliver quantitative information about air quality in Delhi. Additionally, DSS also gives information about the quantitative effects of possible emission source-level interventions on the forecast air-quality event in Delhi.
- ❑ This system issues timely warnings for forthcoming air quality events and prediction for source contribution to take necessary steps as per the Graded Response Action Plan (GRAP) of Government of India.
- ❑ This system is now used operationally by the Commission for Air Quality Management in Delhi and adjoining area (CAQM), Central Pollution Control Board (CPCB), MoEFCC and DPCC. This AQEWS website disseminates air quality forecasts to the public and decision-makers, near real-time observations of air quality for Delhi, Warning Messages, Alerts, and Bulletins.

YouTube Link : <https://youtu.be/DN-mi0O5raA>

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