



Center for Atmospheric And Climate Sciences

Environmental Engineering Division
Department of Civil Engineering, IIT Madras



Present status

I am Kavyashree N Kalkura, a Analyst at CSTEP, Bengaluru, with a background in Environmental and Civil Engineering. I hold an M.S. by Research from IIT Madras and am passionate about air quality and climate change related research.

About Me

At CSTEP, I operate and maintain advanced air quality instruments like ToF-ACSM, AE-33, and PM and gas analyzers. I also conduct source apportionment studies and evaluate the long term performance of calibration models for low-cost sensors. During my masters at IIT Madras, I worked on the chemical composition and source apportionment of PM₁ in Munnar during the monsoon and COVID lockdown to understand the background levels.

Research Interest

- Aerosol chemistry and source apportionment using advanced instrumentation (e.g., ToF-ACSM) and receptor modeling techniques.
- Machine learning for air quality sensor calibration, especially using ensemble models to improve reliability of low-cost sensor networks.
- **Field campaigns and instrumentation**, with extensive experience in setting up and operating instruments under varied climatic and geographic conditions.



**Kavyashree N
Kalkura**

M.S By Research.
2020-2023

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