ELECTRONIC NOSE FOR MONITORING INDUSTRIAL OBNOXIOUS ODOROUS CONSTITUENTS GENERATED FROM PULP & PAPER INDUSTRIES

A Sub-project under the DIT funded eAgriEn Program





Implementing Agencies: C-DAC, Kolkata & NEERI, Nagpur

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OBJECTIVES:

- Developing a substitute for the imported Electronic Nose with indigenously developed system for environmental monitoring of the VOCs/odorants - saving the import bills for the procurement of electronic nose.
- Establishing correlation using indigenously developed Electronic Nose between sensory and analytical measurements for the sulphurous odorants generated from various pulp and paper industries.

Features & Benefits:

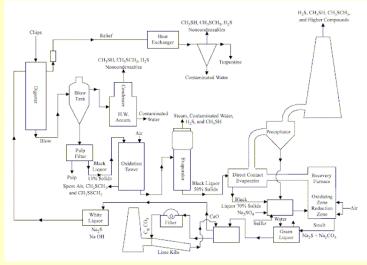
- An automatic instrument for monitoring obnoxious gases generated from Pulp and Paper Industry.
- User-friendly software for running the instrument.
- **Monitoring of various sulphurous compounds generated from paper industry.**
- Generating the revenue for the country through sell of the developed electronic nose of significant economic value in the international market.



E-Nose for Pulp & Paper Industries (OOPs)

Obnoxious
Dimethyl Sulfide
Dimethyl DiSulfide
Gases: Hydrogen Sulfide
Methyl Mercaptan

Typical Kraft sulfate pulping & recovery process of a Pulp & Paper Industry

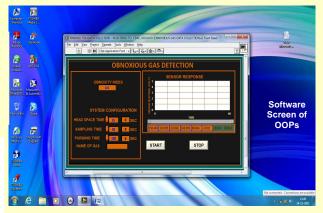




OOPs Sensor Array



- Pulp and paper Industries
- **Gas manufacturing industries**
- Sewage water treatment
- Govt. Regulating Agencies / Pollution Control Boards, etc.
- Research Institutions in agriculture and environment.





View of a Pulp & Paper Industry

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