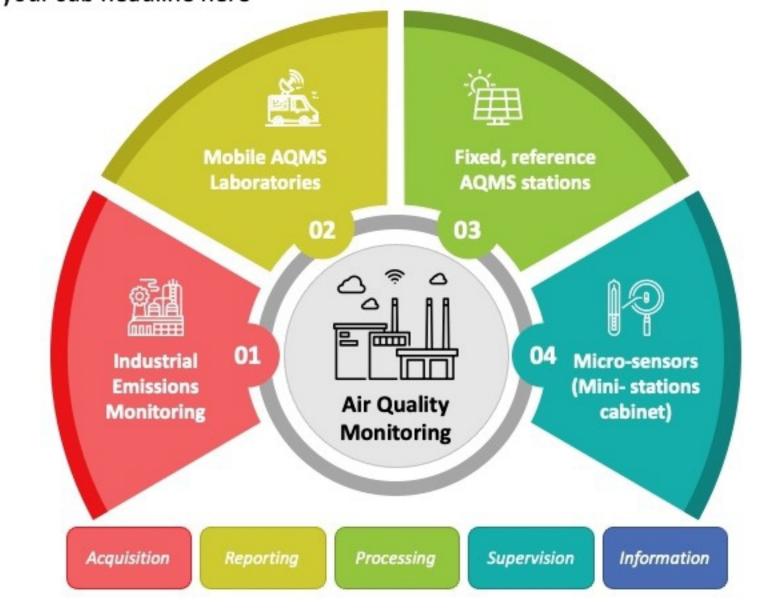
## A Presentation On

# Air Quality Monitoring System



#### **Air Quality Monitoring**

- Monitoring Considerations
  - Manual vs. automated (real-time, continuous) monitoring
  - Sampling time
  - Federal reference method (FRM) vs. equivalent method (EM)
- Monitoring of Ambient Air Pollutants
  - SO<sub>2</sub>, NOx, CO, O<sub>3</sub>
  - Hydrocarbons
  - PM<sub>10</sub>, PM<sub>2.5</sub>
- Source Sampling and Monitoring
  - Sampling train
  - Isokinetic sampling
- Quality Assurance Programs
  - Quality Assurance
  - Quality Control
- □ Air Quality Monitoring Network

### 4.1. Air quality standards

- The National Ambient Air Quality Standards (NAAQS) are standards established by the United States Environmental Protection Agency under authority of the Clean Air Act (42 U.S.C. 7401 et seq.) that apply for outdoor air throughout the country.
- Primary standards are designed to protect human health, with an adequate margin of safety, including sensitive populations such as children, the elderly, and individuals suffering from respiratory diseases.
- Secondary standards are designed to protect public welfare from any known or anticipated adverse effects of a pollutant.

#### 4.2. Air quality monitoring

- The ambient standards is applicable for only two areas viz.
  - Industrial , Residential , Rural, and other areas
  - Ecologically Sensitive Area

 Ambient air quality data generated under National Ambient Air Quality Monitoring Programme (NAMP) has been compared with revised national ambient air quality standards