## St. Xavier's College, Mahuadanr Latehar-822119, Jharkhand

1. **Title of the Program :** Study on Particulate Matters: PM 2.5 and PM 10

2. Organizing Department / Cell: Department of Physics

**3. Date/Duration :** October 27, 2022

4. Number of Participants: 17

## 5. Objective of the Program:

- To know there reliable measurements of air quality parameters
- To help students understand the relatedness of air quality to health
- To help the students analyze the composition of air and the Particulate matters
- To help students widen their knowledge about the growing influence of science and technology in the lives of the people
- To enable students appreciate the usefulness of the subject of their study
- To give students opportunity to interact with the top Scientists of our Country in NPL
- To give students an impetus for self –employment and income generation

## 6. Detailed Description of the Event:

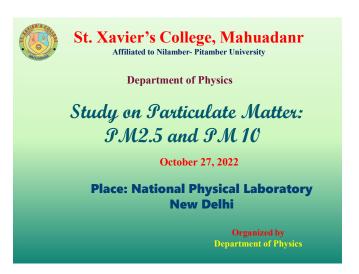
The monitoring and evaluation of ambient air quality is the first important step in controlling air pollution. Monitoring pollutant concentration in air is pivotal to properly manage air quality. One of the harmful pollutants are particulate matters. The basic division of particles is based on their aerodynamic diameter, which allows for the determination of two main groups: PM2.5 and PM 10. i.e. particulate matter with diameters smaller than  $2.5\mu m$  and  $10~\mu m$ . Cleaner air must be India's focus in the coming days. India must adopt better Pollutant monitoring systems, public awareness regarding adverse effects of PM, efficient vehicle engines and use of cleaner fuels in order to build a clean and healthy environment.

### 7. Outcome of the Event:

The field visit enabled students to understand the effect of particulate matters in air that is detrimental to health. It also enabled the students to understand the various methods to identify, calibrate the different particulate matter.

#### 8. Brochure of the Event:

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## 9. Photo:







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## 10. List of Participants:



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Accredited with 'B' Grade by NAAC

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#### List of Participants:

| S. No. | Students Name      | Signature           |
|--------|--------------------|---------------------|
| 1.     | AJIT KUMAR SINGH   | Ajit Kuması singh   |
| 2.     | AMARDEEP YADAV     | Amordeo yadav       |
| 3.     | AMIT KUMAR SONI    | Amit Kuması Somi    |
| 4.     | ANISHA EKKA        | 31/1911 2441        |
| 5.     | ANKIT TIRKEY       | Anisha Ekka         |
| 6.     | ANUJ KUMAR KESHRI  |                     |
| 7.     | ARCHIT KUMAR       | Amuj Kumret Kochst  |
| 8.     | DEEPAK KUMHAR      | Delpak Kunhay       |
| 9.     | ELEEN EKKA         |                     |
| 10.    | JITENDER KUMAR     | जीतेंद्र कुमार      |
| 11.    | RISHABH KUMAR SONI | Rishath Kumces Some |
| 12.    | SARINA ARA         | sarima Asia         |
| 13.    | TEJASVI EKKA       | मेखरूबी रंग्फका     |
| 14.    | KUNDAN SAMUDWAR    | युद्धे समुद्धार     |
| 15.    | NANCY GIDH         | -रामरी चाह्न        |
| 16.    | RONIT TOPPO        | रीनीत रीप्पी        |
| 17.    | AKHLESH ORAON      | Akhlish okaon       |

Principal
St.Xavier's College
Mahuadanr