

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 μ m and 10 μ 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:**

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

 **St. Xavier's College, Mahuadanr**
Affiliated to Nilamber- Pitamber University

Department of Physics

*Study on Particulate Matter:
PM_{2.5} and PM₁₀*

October 27, 2022

**Place: National Physical Laboratory
New Delhi**

Organized by
Department of Physics

9. Photo:



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10. List of Participants:



ST. XAVIER'S COLLEGE MAHUADANR

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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 Kumar Singh
2.	AMARDEEP YADAV	Amardeep Yadav
3.	AMIT KUMAR SONI	Amit Kumar Soni
4.	ANISHA EKKA	अनिशा एकका
5.	ANKIT TIRKEY	Ankita Tirkey
6.	ANUJ KUMAR KESHRI	Anuj Kumar Keshri
7.	ARCHIT KUMAR	Archit Kumar
8.	DEEPAK KUMHAR	Deepak Kumhar
9.	ELEEN EKKA	Eleen Ekka
10.	JITENDER KUMAR	जीतेंद्र कुमार
11.	RISHABH KUMAR SONI	Rishabh Kumar Soni
12.	SARINA ARA	Sarina Ara
13.	TEJASVI EKKA	तेजस्वी एकका
14.	KUNDAN SAMUDWAR	कुंदन समुदवार
15.	NANCY GIDH	Nancy Gidh
16.	RONIT TOPPO	Ronit Toppo
17.	AKHLESH ORAON	Akhlesh Oraon

Principal
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