

RANIGANT GIRL'S COLLEGE



ENVIRONMENT STUDIES

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SEMESTER-1

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Raniganj Girls' College

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Topic of the project: Air pollution in my locality

A Project Report

Submitted by Semester-I students (Academic Year 2021-22)

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CERTIFICATE

This is to certify that this project titled “Air pollution in my locality” submitted by the students for the award of degree of B.A. Honours/ Program is a bonafide record of work carried out under my guidance and supervision.

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Place: Raniganj

Date: 18.03.2022



Assistant Professor, Department of Zoology

Signature of the supervisor with designation and department


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AIR POLLUTION
IN THE AREA OF
AZONE, NEAR BENACHITI
AND ITS
QUALITATIVE MEASUREMENT





INTRODUCTION

Q What is air pollution?

→ Air pollution is a mixture of solid particles and gases in the air.

Car emissions, chemicals from factories, dust, pollen and mold spores may be suspended as particles.

Ozone, a gas, is a major part of air pollution, it's also called smog.

Some air pollutants are poisonous. Inhaling them can increase the chance you'll have health problems.

People with heart or lung disease, older adults and children are at greater risk from air pollution.

Air pollution isn't just outside - the air inside buildings can also be polluted and affect your health.

CAUSES OF AIR POLLUTION

Following are the important causes of air pollution are! -

(1) Factories and Industries :

Factories emissions contribute greatly to the release of CO_2 into the atmosphere. Industries and electrical generating factories contribute slightly more than 50 percent of greenhouse gases.

Another harmful gas from the use of fossil fuels is Sulphur dioxide, a key ingredient in the formation of acid rain.



(2) Vehicular pollution :

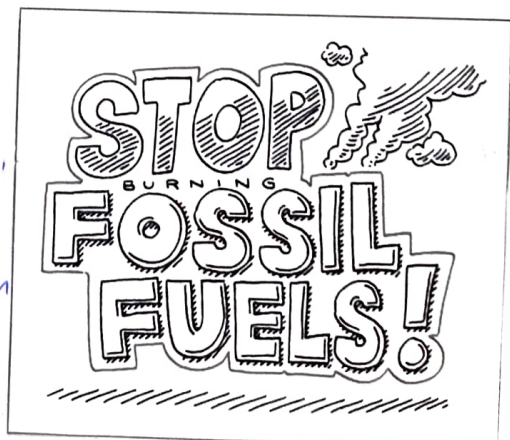
The major pollutants released as vehicle fuel emissions are, carbon, nitrogen oxides (NO_x), photochemical oxidants, air toxics, namely benzene, other oxides of sulphur. 80-90%.

Cars' environmental impact comes from fuel consumption.



(3) Burning of fossil fuels :

The combustions of fossil fuels emits a large amount of sulphur dioxide, nitrogen oxides into the atmosphere which contribute to the formation of smog and acid rain. The most common nitrogen related compounds



emitted into the air by human activities are collectively referred to as nitrogen dioxide.

OBJECTIVE

- Our main objective for doing this project is to express our disapproval of air pollution as it has been the major cause of global warming which has resulted in the melting of glaciers. Air pollution also causes green house effect.
- uncontrolled growth of vehicle population should be controlled
- Release of SO_2 , NO_2 , CO_2 into the environment causes health hazards. It weakens lung functions e.g. \rightarrow coughing.
- carbon monoxide enters the bloodstream and reduces oxygen delivery to the body's organs and tissues.
- At last we think that by doing a campaign, we can aware people of the cons of air pollution and them to stop it for the sake of mother nature.

DATA TABLE OF AIR POLLUTION IN OUR LOCALITY AZONE, BENACHITI

AREA of air pollution	DEGREE of pollution (in inches)	SCALE (in cm)
Mainroad	maximum degree of pollution	50
Garden	minimum degree of pollution	30
Kitchen	moderate degree of pollution	20

EXPERIMENTAL SET UP

FORMATION

Air pollution is caused by the mixture of solid and liquid particles and certain gases that are suspended in the air. These particles and gases can come from car and truck exhaust, factories, dust, pollen, mold spores, volcanoes and wild fires.

■ Now, I start my air pollution experiment.

So, I need some ingredients like —

① A thermocol

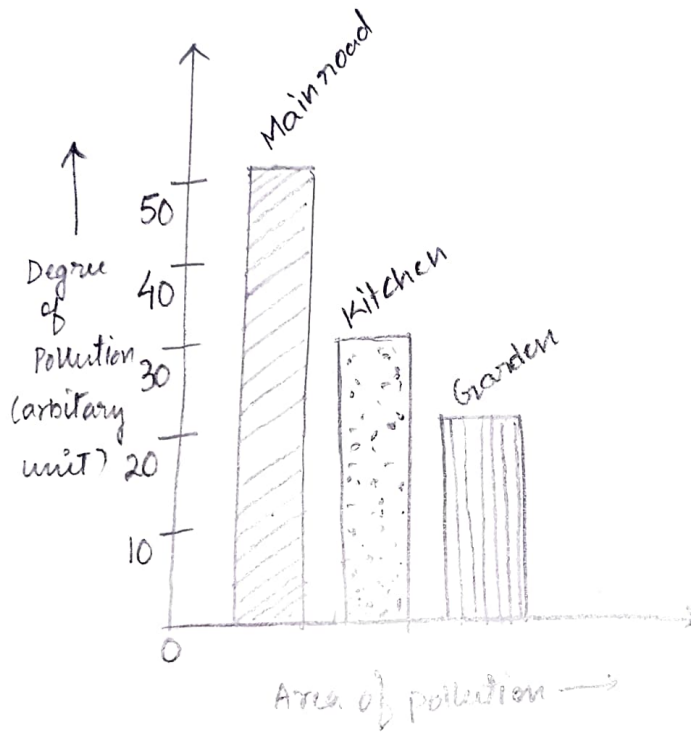
② A Vaseline

■ At first, I do two holes at the end of thermocol.

Then I apply vaseline evenly over the surface of the thermocol. Similarly, four holes also in the other two thermocol's. In other two thermocol's vaseline is applied in the front side. After that I place it in different places like main road, garden and in our kitchen. Where pollution is there and it can catch the pollutants. I think this experiment should be done in main road, in our garden and at home.




DIAGRAMATIC REPRESENTATION OF DEGREE OF POLLUTION IN THREE DIFFERENT AREA

(SHOWING AIR POLLUTION IN OUR AREA. A ZONE, NEAR BENACHITI)



SCALE

INDEX

-  → main road
-  → Kitchen
-  → garden

INTERPRETATION

Our locality is full of greenery. Air pollution level is minimum in our locality. So, it is not the matter of concern in our locality. Air pollution is mainly found in three places

- i) Main roads
- ii) Playground
- iii) Home

• During my survey the vehicular pollution of these places are: -

- i) Main road -
- ii) ground -
- iii) Home -

In our place there is a lot traffic on main road and some factories nearby resulting in high pollution levels on the main road.

In our playground also is surrounded by many trees so it helps in minimising the air pollution in our area. As my garden is full of flowers and small plants so amount of pollution is less in my home.



CONCLUSION

It was a wonderful and learning experience for me while working on this project. This project took me through the various phases of air pollution caused to our environment which affects us adversely causing health hazards. The joy of work and the thrill involved while tackling the various problems and challenges caused due to air pollution. I tried to include all the necessary points that are required. Here I conclude by saying save mother nature by controlling pollution.

ACKNOWLEDGEMENT

I would like to express my special thanks of gratitude to my respected professor

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Date :- 14.03.2022

Signature of student
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Examined
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