

RANIGANJ GIRL'S COLLEGE

ENVIRONMENT STUDIES

PROJECT

NAME = SONIYA RAUT

HINDI HONOURS SEMESTER

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1132101121020030

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Raniganj Girls' College

Course Name: Environment Studies

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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)

Name of the student	Registration Number
INDRANI AKHULI	KNU113211210148
SANSKRITI PANDIT	KNU113211210015
AMBIKA KUMARI SHARMA	KNU113211210202
SHAYMA KHATUN	KNU113211210055
KHUSHI KUMARI	KNU113211210016
ISHIKA SINGH	KNU113211210277
KUMARI ANJALI SHAW	KNU113211210025
KHUSBU KUMARI	KNU113211210177
SOMA DAS	KNU113211210093
RIMI GHOSH	KNU113211210212
JAGRITI ANKURA	KNU113211210119
SONIYA RAUT	KNU113211210030
SONDHYA KUMARI YADAV	KNU113211210180
RIZVI PARVEEN	KNU113112101117
MONISHA DHIBAR	KNU113211210132
DIBYA KOIRI	KNU113211110173
MUSKAN KHATUN	KNU113211110167
KANCHAN KUMARI NONIA	KNU113211210010
NISHA PASWAN	KNU113211210029
RITA SHAW	KNU113211210257
SHAMPA MAJI	KNU113211210114
ASHAPURNA GHOSH	KNU113211210134
SWETA PASI	KNU113211210273
ANJALI YADAV	KNU113211210002

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.

Name of the student	Registration Number
INDRANI AKHULI	KNU113211210148
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ASHAPURNA GHOSH	KNU113211210134
SWETA PASI	KNU113211210273
ANJALI YADAV	KNU113211210002

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

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INTRODUCTION


Air pollution is the contamination of air due to presence of substances in the atmosphere that are harmful to the health of humans and other living beings, or cause damage to the climate or to materials. There are many different types of air pollutants, such as gases (including ammonia, carbon monoxide, sulfur dioxide, nitrous oxides, methane, carbon dioxide and chlorofluorocarbons), particulates (both organic and inorganic), and biological molecules.

Air pollution can cause diseases, allergies and even death to humans; it can also cause harm to other living organisms such as animals and food crops, and may damage the natural environment (For example, climate change, ozone depletion or habitat degradation) or built environment (For example, acid rain). Both human activity and natural processes can generate air pollution.

Teacher's Signature

INTRODUCTION

HEALTH EFFECTS OF AIR POLLUTION



HEALTH EFFECTS:

- HEART AND BLOOD VESSELS
- LUNGS
- ASTHMA
- SHORTENED LIFE EXPECTANCY
- THE EYE
- HARM TO BLOOD

AIR QUALITY INDEX

0-50	51-100	101-150	151-200	201-300	301-500
GOOD	MODERATE	UNHEALTHY FOR SENSITIVE GROUPS	UNHEALTHY	VERY UNHEALTHY	Hazardous

WHO IS MORE AFFECTED

- CHILDREN
- ELDERLY
- PEOPLE WITH PRE-EXISTING RESPIRATORY AND HEART DISEASE
- PEOPLE WHO WORK OUTDOORS
- PEOPLE WHO LIVE OR WORK IN POLLUTED AREAS
- PEOPLE WHO ARE WEAK

HOW TO PROTECT YOURSELF

- USE A MASK
- AVOID OUTDOOR EXERCISE
- AVOID STAYING IN POLLUTED AREAS
- WASH YOUR HANDS
- DRINK WATER
- USE A HEPA FILTER
- USE A VENTILATOR

at the time of the study, the air quality index was found to be in the moderate range. This indicates that the air quality is acceptable, but there may be some health concerns for very sensitive individuals. The study also found that the air quality index was higher during the winter months, which is likely due to the increased use of heating systems and the resulting increase in air pollution.

HEALTH EFFECT

Even at levels lower than those considered safe by United States regulators, exposure to three components of air pollution, fine particulate matter, nitrogen dioxide and ozone correlates with cardiac and respiratory illness. In 2020, pollution (including air pollution) was a contributing factor to one in eight deaths in Europe, and was a significant risk factor for pollution-related diseases including heart disease, stroke and lung cancer. The health effects caused by air pollution may include difficulty in breathing, wheezing, coughing, asthma and worsening of existing respiratory and cardiac conditions. These effects can result in increased medication use, increased doctor or emergency department visits, more hospital admissions and premature death. The human health effects of poor air quality are far reaching, but principally affect the body's respiratory system and the cardiovascular system. Individual reactions to air pollutants depend on the type of pollutant a person is exposed

HEALTH EFFECT



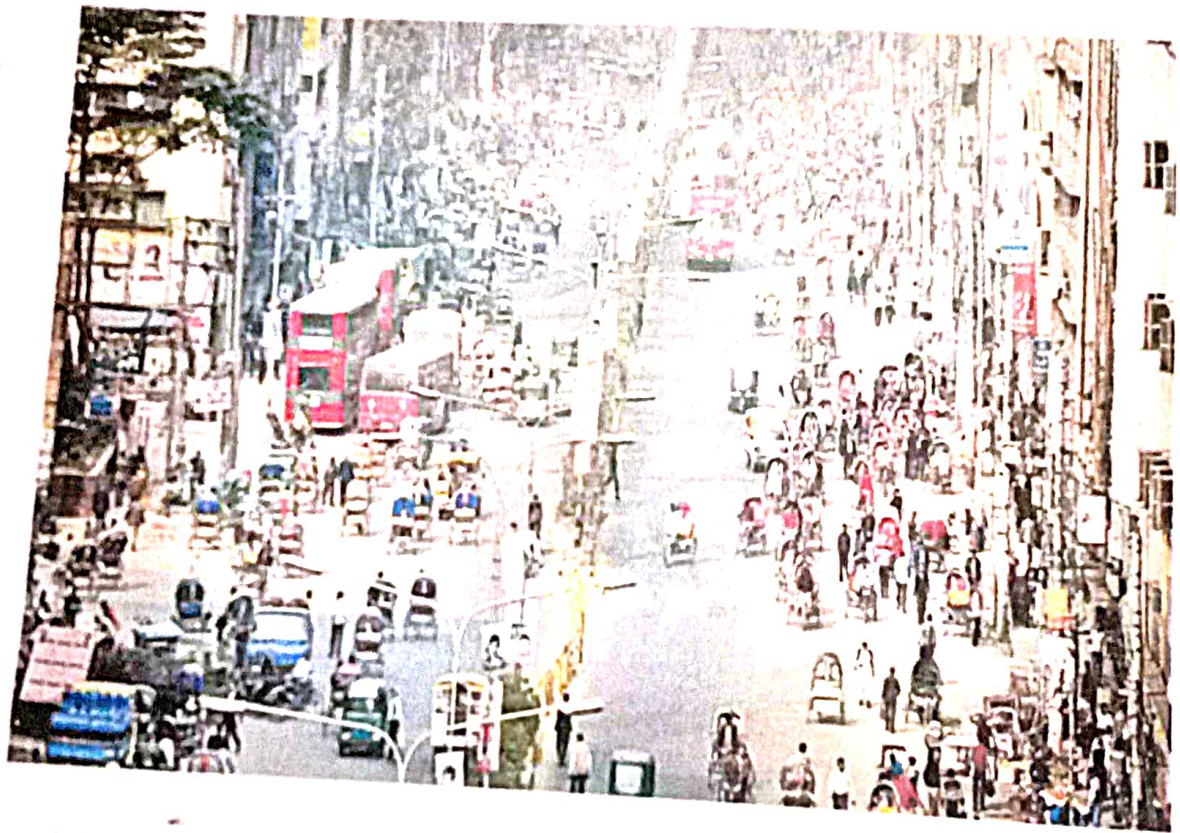
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AGRICULTURE EFFECT

In India in 2014, it was reported that air pollution by black carbon and ground level ozone had reduced crop yields in the most affected areas by almost half in 2011 when compared to 1980 levels.

Developing means of farming and agriculture is the reason humans can live in the world today. It is a necessary means of survival, without which there would be famines all over the world. For thousands of years, agriculture was a natural process that did not harm the land it was done on. In fact, farmers were able to pass down their land for many generations, and it would still be fertile as ever. However, modern agricultural practices have started the process of agricultural pollution. This process causes the degradation of the ecosystem, land, and environment due to the modern-day products of agriculture. Agriculture is a complex activity in which the growth of crops and livestock have to be balanced perfectly.

AGRICULTURE EFFECT



ECONOMIC EFFECT

Air pollution costs the economy \$5 trillion per year as a result of productivity losses and degraded quality of life, according to a joint study by the World Bank and the Institute for Health Metrics and Evaluation (IHME) at the University of Washington. These productivity losses are caused by deaths due to diseases caused by air pollution. One out of ten deaths in 2019 was caused by diseases associated with air pollution and the problem is getting worse. The problem is even more acute in the developing world. "Children under age 5 in lower-income countries are more than 60 times as likely to die from exposure to air pollution as children in high-income countries. The report states that additional economic losses caused by air pollution, including health costs and the adverse effect on agricultural and other productivity were not calculated in the report, and thus the actual costs to the world economy are far higher than \$5 trillion.

OBJECTIVES

1) Our objectives for doing this project is to express our disapproval of air pollution as it has been the biggest cause of global warming so far. Things like greenhouse gases and car exhaust are the most common causes for air pollution.

2) Although Singapore is not causing so much air pollution, there are countries like china which produces a lot of pollution. (Most of the time Beijing is covered with haze and the air quality there is so bad that people are forced to wear a mask, to prevent themselves from inhaling the bad air.)

3) If we do not stop air pollution, the icecaps in the north pole will eventually melt and the sea level will rise, thus flooding the low lying countries. (Like Singapore!) -> it will kill cute animals like polar bears. (Sad).

4) All of us have a part to play! Air pollution is also destroying the ozone layer and lots of animals thus we want to reduce it.

5) We think that by doing a campaign, we can warn people of the consequences of air pollution and tell them what they can do to stop it.

DATA COLLECTION OF AIR POLLUTION
IN OUR LOCALITY

AREA OF AIR POLLUTION	DEGREE OF AIR POLLUTION	SCALE IN CENTIMETRES
Main Road	90°	9 cm
Play Ground	58°	5.8 cm
Home	30°	3 cm

CONCLUSION OR INFERENCE

- Air pollution is a major environmental issue. It can affect the health and life support systems as well since clean air is an essential factor of life for respiration, it is necessary to prevent the sources of air pollution.
- Air pollution is often the most obvious and spread type of pollution.
- Health effects of these pollutants include respiratory diseases, birth defects, heart attacks, cancer, and developmental disabilities in children, environment impacts include destruction of stratospheric ozone, poisoning of forests and water by acid rain, and corrosion of building materials.
- We have made encouraging progress in controlling air pollution, progress that has economic benefits as well as health benefits.

ACKNOWLEDGEMENT

I express my special thanks to my principal Chhabi De Environmental studies teacher Buddadev Mallik who always gave me guidance and helped me to know about the subject. I had made this project from my heart and shown almost sincerity to complete it. I am very thankful to all those people who helped me and guided me to make such a project. I also thank my parents who have provided me all the resources required to make this project.

Soniya Raut

Examined
Mallik
15-03-20