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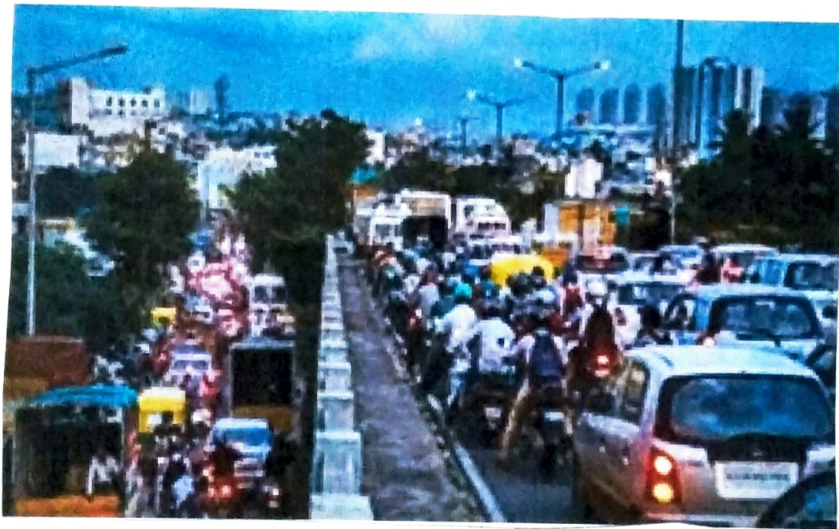
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REG NO: 113211210045 of 2021-22

COLLEGE: RANIGANJ GIRL'S COLLEGE

SUBJECT: EVNS PROJECT

PROJECT: NOISE POLLUTION



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Teacher's Signature

## **Raniganj Girls' College**

**Course Name: Environment Studies**

**Course Code: AEE101**

**Topic of the project: Different aspects of Air, Soil, Water, Noise pollution**

### **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 “Different aspects of Air, Soil, Water, Noise pollution” 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

*Juhin Subhra Ghosh*

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Signature of the supervisor with designation and department

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# \* INTRODUCTION

Noise pollution, also known as environmental noise or sound pollution, is the propagation of noise with varying impacts on the activity of human or animal life, most of them harmful to a degree.

The source of the outdoor noise worldwide is mainly caused by machines, transport and propagation system. Poor urban planning may give rise to noise disintegration or pollution, side-by-side industrial and residential building can result in noise pollution in the residential areas. Some of the main sources of noise in residential areas include loud music, transportation (traffic, rails, airplanes etc.), lawn care maintenance, construction, electrical generators, wind turbines, explosions, and people.

# TYPES OF NOISE POLLUTION

(A) Transport Noise :- It mainly consists of traffic, noise which has increased in recent years with the increase in the number of vehicles. The increase in noise pollution leads to deafening of older people, headache, hypertension, etc.

(B) Neighbourhood Noise :- The noise from gadgets, household utensils etc. Some of the main sources are musical instruments, transistor, loudspeakers etc.

(C) Industrial Noise :- It is the high-intensity sound which is caused by heavy industrial machines. According to many researches, industrial noise pollution damages the hearing ability to around 20%.

(d) Machinery Noise :- Machinery Noise and Diagnostics provides engineers with and understanding of how dynamic forces produce structural vibration in machines and how these vibrations are transmitted through the machine and produce radiated sound. The book presents the theoretical and practical aspects of machinery noise and diagnostics.

# THE CAUSES OF NOISE POLLUTION

1. Industrialization :- Most of the industries use big machines which are capable of producing a large amount of noise. Apart from that, various equipment like compressors, generators, exhaust fans, grinding mills also participate in producing big noise.

You are probably familiar with the sight of workers in these factories and industries wearing earplugs to minimize the effect of noise.

However, even after taking precautionary measures like these, extensive exposure to high levels of noise might damage their hearing abilities in the long run.

2. Social Events :- Noise is at its peak in most of the social events. Whether it is marriage, parties, pub, disc or place of worship, people normally flout rules set by that local administration and create a nuisance in the area.

People play songs on full volume and dance till midnight, which makes the condition of people living nearby pretty worse. In markets, you can see people selling clothes via making a loud noise to attract the attention of people.

4. Transportation :- A large number of vehicles on roads, airplanes flying over houses, underground trains produce heavy noise and people find it difficult to get accustomed to that.

The high noise leads to a situation wherein a normal person loses the ability to hear properly.

5. Noise From Air Traffic :- While many find it difficult to believe, air traffic too contributes to significant levels of noise pollution. Noise from a single aircraft may produce sounds of up to 130 dB. Now, imagine the amount of noise produced by the numerous aircraft travelling our airspace.





## EFFECTS OF NOISE POLLUTION :-

Soil influences almost all aspects of our daily lives. Sometimes we fail to understand it. As a result of this, we sometimes fail to understand the effect that soil pollution has on our daily lives. Polluted soil means stunted crops or even toxic underground water table. Some major effects of soil pollution are listed below.

1. Hearing Problems :- Any unwanted sound that our ears have not been built to filter can cause problems within the body. Our ears can take in a certain range of sounds without getting damaged.

Man-made noise such as jackhammers, horns, machinery, airplanes, and even vehicles can be too loud for our hearing range.

Constant exposure to loud levels of noise can easily result in the damage of our eardrums and loss of hearing, causing tinnitus or deafness. It also reduces our sensitivity to sounds that our ears pick up unconsciously to regulate our body's rhythm.

2. Effect on Growth of Plants :- The ecological balance of any system gets affected due to the

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widespread contamination of the soil. Most plants are unable to adapt when the chemistry of the soil changes so radically in a short period of time. Fungi and bacteria found in the soil that bind it together begin to decline, which creates an additional problems of soil erosion.

3. Physical Problems:— Noise pollution can cause headache, high blood pressure, respiratory agitation, racing pulse and in exposure to extremely loud, constant noise, gastritis, colitis and even heart attacks may occur.

4. Cardiovascular Issues:— Blood pressure levels, cardiovascular disease and stress-related heart problems are on the rise.

Studies suggest that high-intensity noise causes high blood pressure and increases heartbeat rate as it disrupts the normal blood flow.

Since bringing these rates to a manageable level depends on our understanding of noise pollution, we need to be wary of the ill-effects and tackle these situations mindfully.

5. Effect on Wildlife :- Wildlife faces far more problems than humans because of noise pollution since they are more dependent on sound. Animals develop a better sense of hearing than us since their survival depends on it.

6. Trouble Communicating :- High decibel noise can put trouble and affect free communication between people. This may lead to misunderstanding and you may get difficult understanding the other person.



## \* CONTROL OR SOLUTION \*

Noise pollution control is possibility. If not entirely it nevertheless is possible to control its effect on us. Take a look at how you can contribute.

- The first and foremost happens to be awareness amongst individuals as well as industries.
- Next, methods such as setting up of noise barriers in small as well as large scale industries to enclose noise-generating machinery should be enforced by law.
- Incorporating certain changes in the design of vehicles like improved tire designs, engineering changes in engines of vehicles, allowing heavy-duty vehicles to ply on their respective routes at times when the roads are less jam-packed.
- To avoid the negative effects of Noise you may start practicing regular meditation, pranayama and yoga asanas. This leads to lesser disturbance in mental peace and a more sound sleep.

The cities should be chalked out in a systematic and planned manner. The residential areas should be cut out from industrial and transport zones. There should be a gap of at least twenty meter between the residential areas and main road. This 20 meter zone of separation should be thickly planted.



# CONCLUSION

Unwanted sound (noise) can damage physiological health. Noise pollution can cause hypertension, high stress levels, tinnitus, hearing loss, sleep disturbances and other harmful and disturbing effects. Noise is any disturbing or unwanted sound, and noise pollution affects people's health and quality of life. Prolonged high levels of noise can cause hearing loss and stress-related illnesses. Noise often affects children more than adults, and noise pollution also affects general well-being.

We can reduce noise pollution by turning off appliances when not in use, use of earplugs, lowering the volume, planting more trees, regular maintenance of vehicles and machines etc. By controlling noise we can control negative health effects that noise pollution has on everyone.

## IMPORTANCE OF THE PROJECT :-

- 1) Time Management: It estimates the time required for a project to finish through the time management plan.
- 2) Achievement of strategic goals: Your future Every successful project delivers organization and helps it to accomplish its Strategic goals.
- 3) Identifies risk: It is always better to have an insight about the possible financial, social, physical etc.
- 4) Innovation:— Project planning may encourage creativity or innovation.
- 5) Motivation:— Project planning may motivate employees. Due to project planning, the company may achieve higher performance.

# DATA COLLECTION :-

There are so many sources of data collection techniques but specially there are two types to collect the data.

- 1) Primary Data
- 2) Secondary Data.

I enlisted the help my college teachers and friends in collecting primary data. For this purpose, Secondary data will be obtained from various published and unpublished records, books and journals.

Data Collection is especially important in implementing any project, nothing of the project possible without data. I have my primary and Secondary data from a variety of different places.

I took the help of internet, my friends, class teacher.





# ACKNOWLEDGEMENT

I would like to express my gratitude towards Tuhin Subhra Ghosh for guiding me throughout the project. I also feel thankful and express my kind gratitude towards our Principal Chhabi De for allowing me to conduct Noise Pollution project. The mentioned project was done under the supervision of T. Subhra Ghosh. I thank all participants for their positive support and guidance.

I feel thankful to the college staff for giving me such a big opportunity. I believe I will enroll in more such events in the coming future. I ensure that this project was done by me and is not copied.

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