

Topic\*

Waste Pollution\*

in

Paniganj\*

City\*

## **Raniganj Girls' College**

**Course Name: Environment Studies**

**Course Code: AEE101**

**Topic of the project: Water 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 “Water 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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## REGISTRATION CERTIFICATE

This is to certify that **SAKINA PARWEEN**

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22

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# Acknowledgement

This project report has given me the golden opportunity for learning self-development through collaborative activities. I consider myself lucky enough to have worked under my EVS teacher. Whose encouraging words and monitoring individual case and motivating approach have widened the horizon of my knowledge and stimulated me to work together in joy.

We are grateful to all my friends, family members and

many well. Wishes who helped me  
in numerous ways in completing this  
project.

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# Introduction

Water is quickly vulnerable to pollution known as a "Universal Solvent". Water is able to dissolve more substance than any other liquid on earth.

It's the reason we have coral-reefs and brilliant blue waterfalls. It's also why water is so easily polluted, toxic substance from farms, towns, and factories readily dissolve into and mix with it causing water pollution.

The oldest coal extraction method is one of the best and appropriate in the mining industries of the India

resulting into a void or pit which is  
eventually filled up by surface.

# 1 Definition of Waste Pollution

Water pollution is the addition of substances or energy forms that directly or indirectly alter the nature of the water body in such a manner that negatively affects its legitimate uses. Therefore, pollution is associated with concepts attributed to humans, namely the negative alterations and the uses of the water body. Water is typically referred to as polluted when it is impaired by anthropogenic contaminants. Due to these contaminants

it either does not support a human use, such as drinking water, or undergoes a marked shift in its ability to support its biotic communities, such as fish.

# Types of water pollution

Water pollution can be classified variously as -

1. According to medium

i) Surface water pollution

ii) Soil water pollution

iii) Subsoil water pollution

2. According to the habitat

i) Lake water pollution

ii) River water pollution

iii) Marine water pollution.

3. According to the Source.

- i) Nutrient pollution
- ii) Bacterial pollution.
- iii) Visual pollution.
- iv) Chemical pollution.
- v) Radio active pollution.

# Causes of water pollution

1. Wastewater and sewage :- Wastewater and sewage from household are also common causes of water pollution. Sewer water carries chemicals and harmful bacteria which pose serious health issues. Sewers from houses carry pathogens which cause diseases. Wastewater and sewer carry microorganisms which carry deadly diseases and are also breeding ground for disease carriers.

2. Marine Dumping :- Every household produces garbage. It can be in the form of papers, plastic bottles, glass, rubber, aluminium and also waste food. This garbage is sometimes dumped in water bodies, and this causes water pollution.

Some of these waste deposits take up to 200 years to decompose.

3. Pesticides and chemical Fertilizers :- These are products used by farmers to grow crops free of bacteria and insect infestation. While they may be useful to plant life, they pose serious hazards to humans and animals if they gain access to water. The chemicals mix with rainwater and flow to water bodies.



# Impact of Water Pollution

Human infectious diseases are among the most serious effects of water pollution especially in developing countries where sanitation may be inadequate or non-existent water born diseases occur when parasites or other disease-causing microorganisms are transmitted via contaminated water particularly water contaminated by pathogens originating from. Excess, these include typhoid, intestinal parasites, and most of the enteric and diarrheal diseases caused by bacteria parasites, and viruses. Among the most endemic and parasitic

diseases. Causes are amoebiasis, giardiasis, and viruses are hook worm. Water based diseases are some what similar to water born diseases but are not typically on effect of water pollution. They come from infectious agents that naturally spend part of their life cycles in water human can become infected when they drink or come in contact with the water that or come in contact with the water that serves as home to these organisms.

The toxins found in brown tide algae are strong enough that fishers can get skin lesions from exposures and nearby brown tide.

# How to stop Water pollution

1. Sewage and wastewater treatment: It is important to treat wastewater and sewer from households. When they are treated, they become environmentally friendly and pose minimal threat to humans as well as animals. There should be an effective sewer treatment process. Wastewater can be treated through a biological wastewater treatment. These methods can be used by industries and homeowners to water before it is discharged to the environment.

2. Protect large water bodies :- Therefore, industries and humans must ensure they prevent pollution of large water bodies.

There should be no waste getting in the water bodies and people should dispose of litter in designated waste disposal bins and area. Also, routine cleaning should be done of ponds and lakes to ensure the water remains fit for human and animal consumption.

3. Creating public awareness :- Creating public awareness can go a long way to ensure humans do as much as possible not to play a role in water pollution. There are environmental organizations that work to create awareness of water pollution and

other types of pollution. They should do more to educate people on the dangers of pollution and also offer remedies to this catastrophe.

# Water Simple Analysis

Water samples were collected from open lakes in pre-monsoon, monsoon and post-monsoon seasons during 2014-2015 using standard protocols and guidelines the value of each parameter was expressed as mean with standard deviations in the results.

Test for physicochemical parameters of water samples were performed by following standard methods given by American Public Health Association and Black (1965)



# Discussion

Variation of physicochemical parameters of ten lakes of Raniganj found with their mean value simulating were also observed that key influence parameters hardness, chloride and nitrate nitrogen content of lake water parameters are positively correlated that indicate their effect on water quality.

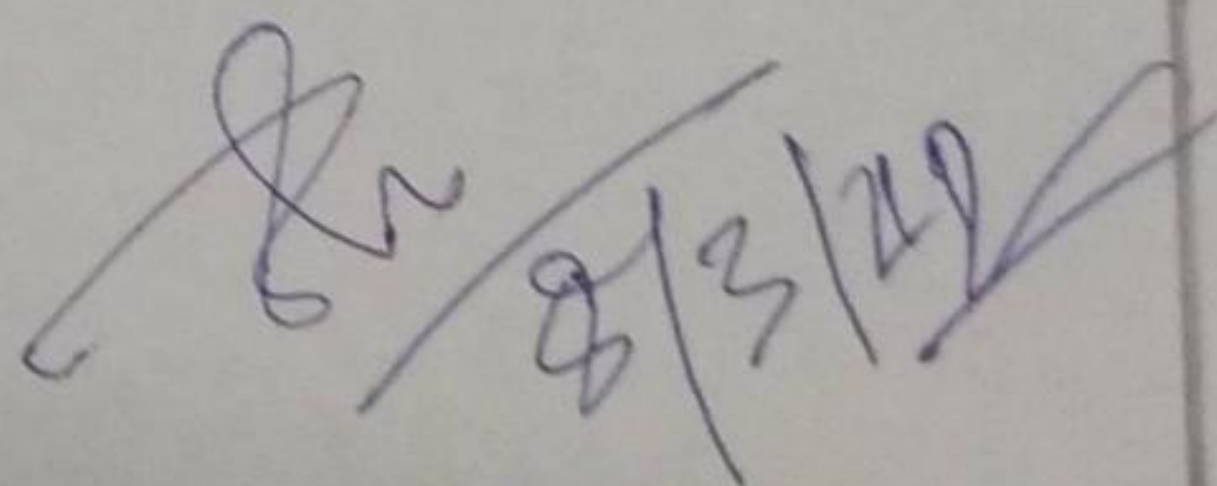
# Conclusion

The based on the result of this present studies of the bilakes of Ramiganj Rajbari it can be concluded that water quality. It revealed that all bilakes change with seasonal variation such change were found in phconductivity Alkalinity - Hardness chloride, Nitrate nitrogen and phosphate phosphorous also major factors indicate that bilake water quality have the potentiality to him - prove and restore itself with due course of time.



# Certificate

This is to certify that content of this project entitled "Water pollution" by Sakina Parween is the bonafide work of him/her submitted to "Ramigamji Gird's College for consideration in partial fulfillment of the requirement of "Kazi Nazrul University" Annual for the award for consideration. Under the guidance of our EVS teacher and have been completed it. Successfully.

 8/3/22

Date: 8-03-2022

Teacher's Signature.