



EVS  
project.

# RANIGANT GIRL'S COLLEGE

(KAZI NAZRUL UNIVERSITY)

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REGISTRATION NO:- 113211210140

TITLE:- WATER POLLUTION  
IN RANIGANT  
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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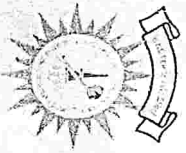
Place: Raniganj

*Mousmita Pal*

Date: 18.03.2022

Assistant Professor, Department of Zoology

Signature of the supervisor with designation and department



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REGISTRATION CERTIFICATE

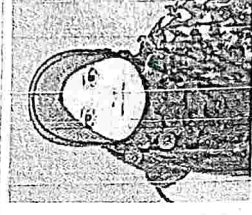
This is to certify that RUKHSANA KHATOON

Son/Daughter of SK HASIBUL

of RANIGANJ GIRLS' COLLEGE

is registered as a student of this University,

His/Her registration number is 113211210140 of 2021-22



Registrar



TOPIC

WATER POLLUTION

IN  
RANIGIANT  
CITY



# ACKNOWLEDGEMENT

I would like to express my special thanks of Gratitude to my subject Teacher "Moumi Talpal" for their Guidance & supports in completing my project.

I would also like to extend my Gratitude to the principle mam for providing me with all the facility that was Required

Date: - 08/04/2022

Rukhsama Khatoom.

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# DEFINITION OF WATER POLLUTION

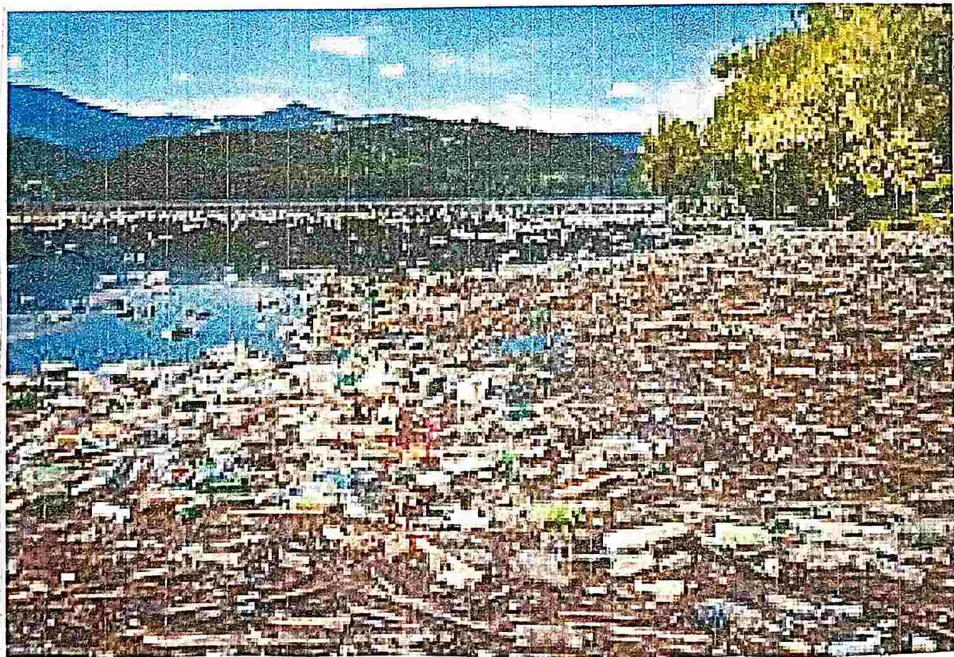
Water pollution is the contamination of water bodies, usually as a result of human activities in such a manner that negatively affects its legitimate uses. Water pollution reduces the ability of the body of water to provide the ecosystem services that it would otherwise provide.





# Raniganj City Water Pollution

What water pollution occurs when harmful substance of either chemicals or microorganism - contaminates a stream, river, lake, ocean, aquifer or other body of water, degrading water quality and rendering it toxic to humans are the environment.



# Introduction

Water is uniquely 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 pollution is so easy pollution. Toxic substance farms, towns and factories readily dissolve into and mix with it causing water pollution.

The open cast 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.

# Impact of Water Pollution

Human Infections Diseases are among the most serious effects of water pollution. Specifically 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 excreta. These include typhoid, intestinal parasites, and most of the enteric and diarrhoeal diseases caused by bacteria parasites, and viruses. Among the most enteric and parasitic diseases causes are amoebiasis, Giardiasis, and viruses are hookworm water.

Based Diseases are somewhat similar to water warm home. Diseases but are not typically an effect of water pollution they came from infectious agent 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 near by Brown tide.

# Causes of Water Pollution

causes of water pollution can be classified under two broad categories. point source which occurs when harmful substances are emitted directly into a body of water and nonpoint sources which delivers pollution indirectly through transport or environment change. An example directly into a river an example of a point source of water pollution is a pipe from an industrial facility discharging effluent directly into a river.

causes of water pollution of water could be pesticides and fertilizers which runoff from fields into local streams and rivers many causes of pollution, including sewage, manure, and

chemical fertilizers, contain "nutrients" such as nitrates and phosphates. Deposition of atmospheric nitrogen also causes nutrient type water pollution.

In excess levels, nutrients over stimulate the growth of aquatic plants and algae. excessive growth of these types of organism clog over water ways and blocks light to deeper waters while the organisms are alive when the organisms die, they use up dissolved oxygen as they decompose.

# Raniganj City Water Pollution Study Area.

Raniganj coalfield is the in the of coal mi  
ning in the country Area of Raniganj  
coalfield is  $1536 \text{ km}^2$  spreading over  
Bardwan, Birbhum, Bankura and pur  
ulia District bounded by Ajoy River  
in North and Damodar River in so  
uth On the Basis of Geographic Dis  
tribution and use patterns, 10 pit lakes  
were selected for studying the physical  
chemical properties of their water  
in premonsoon, monsoon and post  
monsoon comprising the three prin  
cipal seasons of a year.

# Water Simple Analysis

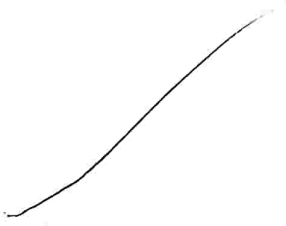
Water samples were collected from open wells in pre-monsoon, monsoon and post-monsoon seasons during 2014-2015 using standard protocols and guidelines. The value of each parameter was expressed as mean with standard deviations in the results.

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



# Discussions

variate of physicochemical parameters of ten pillages of Ramigam found with their mean value. Similarly were also reported that key influence parameters hardness, chloride and nitrate nitrogen content of pillage water parameters are positively correlated that indicate their effect on water quality.

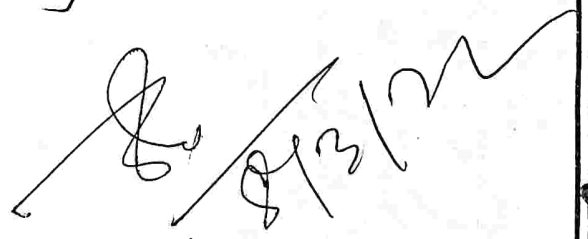


# Conclusion

The Based On the result of this present studies of the pitlakes of Ramigam Rajbasi it can be concluded that water Quality. It Reveled that all pitlakes change with seasonal variation such change were found in ph conductivity alkalinity - hardness chloride, nitrate nitrogen and phosphate phosphorous also major factors in state that pitlake water quality have the potentiality to improve and restore it set with due course of time.

# Certificate

This is to certify that content of this project entitled "Water pollution in Ramiganj city" by Jyotirukhsama Khatoon shows the bono fide work of him submitted to "Ramiganj Girls college for consideration in partial fulfillment of the Requirement of "Kazi Nazrul University" Asansol for the award for consideration under the Guidance of Our Evs Teacher and have been completed it successfully.

  
Teacher's Signature

Date: -