

TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAY

(A Govt. Aided General Degree College affiliated to Burdwan University and registered u/s 2(f) & 12(B) of UGC Act, 1956)

[Established in 2006 and Accredited 'B' by NAAC in 2016]

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Criterion 1 – Curricular Aspects

1.3.2 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

List of Documents:

Sample Project Reports

Date: 13/07/2024



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THE UNIVERSITY OF BURDWAN

THLH MAHAVIDYALAYA

ENVS PROJECT (2022-2023)

TITLE :- An empirical description of water pollution in Loha Bazar



Submitted By
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Guided By
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College Roll No. - 130

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20/05/23

PREFACE

This project of the Comptroller and Auditor General of India for the year ended November 2022 containing the results of the performance audit of water pollution in India has been prepared for submission to the President of India Article 151 of the Constitution.

The performance Audit was conducted during July 2021 to February 2022 through document analysis, collection of responses to questionnaires, physical collection and testing of samples. Records and documents relating to the issues in the performance Audit were examined.

(*) In the ministry of Environment and Forests, Central Pollution Control Board, ministry of water resources and central ground water board for homes ponds.

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The results of Audit, both at the central level and the state level, were taken into account for arriving at Audit conclusions.

ACKNOWLEDGEMENT

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I would like to express my gratitude towards my parents who helped me a lot in finalizing this project within the limited time frame.

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Thank you.

Sangita Dhiban.

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INTRODUCTION

We know water's another name is life. Water is one of the most important natural resources, which is absolutely essential in having life and living life. Apart from sustaining life, water is used for various essential purposes. Water pollution is again a major global problem which harms the comfortable living of us.

It has been proved that water pollution is a major cause of death and disease worldwide. In the world everyday more than 1400 people die from water pollution only. The amount of water pollution in India has increased to such an extent that it has become serious and many people are suffering from various diseases due to this water pollution.

OBJECTIVES

- i) Define water pollution.
- ii) Discuss how sewage is related to biochemical oxygen demand (BOD) and dissolved oxygen.
- iii) Understand and explain what is water pollution.
- iv) Identify and describe factors contributing to water pollution.
- v) Understand the impact of these on the environment, people, plants and animals.
- vi) Understand and describe why we need to control water pollution and conserve water.
- vii) Propose appropriate solutions for safe cleaning methods at home.

STUDY AREA

About three fourths of our planet earth's surface is covered by water. But three fifths of our village Loha Bazar surface is covered by water. Two of them are located besides my home. In these two ponds are highly polluted.

METHODOLOGY

A specific plan was adopted for water monitoring in the environment all studies class. Here is a list of things to focus on during water monitoring —

- Ⓐ Color of water
- Ⓑ Water temperature
- Ⓒ Water PH
- Ⓓ Animal and plants found in water and near water bodies.
- Ⓔ Causes of water Pollution.

Besides, the following materials are used for water monitoring —

- Ⓐ Disonder
- Ⓑ PH Paper
- Ⓒ Thermometer
- Ⓓ Net
- Ⓔ The letter
- Ⓕ Note book
- Ⓖ Pencil
- Ⓗ Eraser etc.

CAUSE OF WATER POLLUTION

There are many reasons of water pollution. They are discussed below.

- Ⓐ Industrial waste.
- Ⓑ Agricultural discharges.
- Ⓒ Radioactive waste.
- Ⓓ Thermal pollutions.
- Ⓔ Manure dumping.

- ⑧ Leakage from sewer lines.
- ⑨ Underground storage Leakage.
- ⑩ Global warming.
- ⑪ covered by leaf, water hyacinth.

EFFECTS OF WATER POLLUTION

Water pollution damages human health makes our living conditions precarious and threatens life on the planet and the Loha Bazar village. There are many effects of water pollution. They are discussed below. —

- ① Effects on aquatic ecosystem.
- ② Effects on human health.
- ③ Hazards of ground water pollution.
- ④ Biological magnification.
- ⑤ Eutrophication
- ⑥ Algal Bloom
- ⑦ Dying of fishes
- ⑧ Dying of aquatic creatures.

SUGGESTIONS OF WATER POLLUTION

There is no single or simple answer to stop the water pollution crisis, however, there are many solutions to prevent water pollution both in my locality and within industries. There are many suggestions of water pollution. They are discussed below —

- ① Wastewater Treatment.

- ⑥ Reducing Plastic waste.
- ⑦ Water Conservation
- ⑧ Water-efficient Toilets
- ⑨ septic Tanks.
- ⑩ Do not use Toilet as a Trash bin.
- ⑪ Stormwater management.
- ⑫ Green Agriculture and wetlands.
- ⑬ Denitrification
- ⑭ Ozone waterwast treatment.

CONCLUSIONS

Water Pollution is one of the major environmental pollution, which destroys the environment, animals and our daily comfortable life. So we must be aware about water pollution as we are all the reasons behind it.

As a student we should understand this world wide problem of water pollution and think about its remedy. And we should convince other about this.

We need pure water to live a healthy life and we are well aware of existing situation. This is need of the hour to counter the problem of water pollution. Government authorities should ensure that factories, industries and individuals are not dumping waste into water bodies.

BIBLIOGRAPHY

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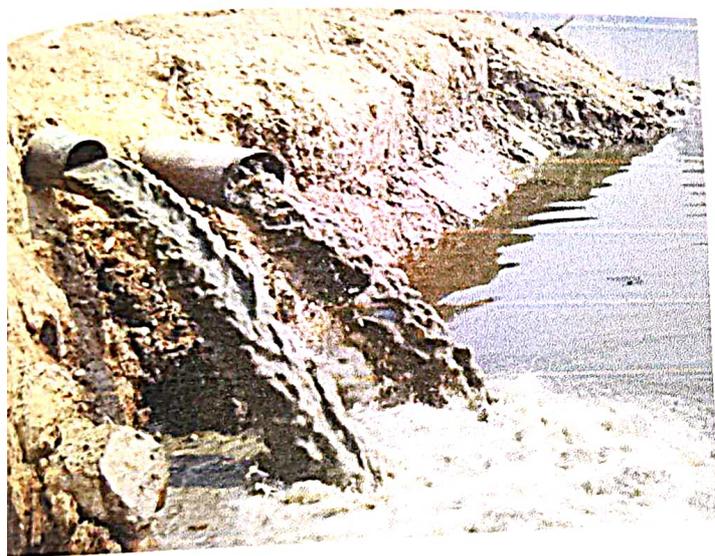
Books :-

1. WBSE board class 7 Geography text Book "Amader Prithibi."
2. WBSE board class 10 Geography text Book.
3. Water pollution and abatement policy in India.

Websites :-

1. epcb.nic.in.
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5. google.com.
6. youtube.com.

Water Pollution



TURKU HANSDA LAPSA HEMBRAM MAHAVIDYALAYA



BURDWAN UNIVERSITY

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SUBJECT - E.N.V.S

ACADEMIC SESSION - 2022-2023

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Pollution

- The word Pollution is derived from Latin word "Pollutio" which means defile or make dirty
- Pollution is an undesirable change in physical, chemical or biological characteristics of air, water and land that may or will produce harmful effect on human life, and other living organisms

Kinds of Pollution

- (A) Natural: Natural Pollution is due to natural causes like storms, marsh gases, volcanic eruptions, forest fires, earthquakes and erosions etc.
- (B) Man made Pollution: This Pollution originates due to human activities. It is of three types
- i) Personal Pollution: Caused by an individual and affect a little area e.g. smoking.
 - ii) Occupational Pollution: Arises due to occupation or work and affects all the workers and around them, e.g. textile mill, flour mill, stone crushing etc.
 - iii) Community Pollution: Affects whole community e.g. Fertilizer industries, Refineries, Power plants etc.

Pollutant

A pollutant or novel entity is a substance or energy introduced into the environment that has undesired effects, or adversely affects the usefulness of a resource. These can be both naturally forming or anthropogenic in origin.

Types of Pollution

Pollution can be divided into following 8 main categories

- 1) Air Pollution
- 2) Water Pollution
- 3) Soil Pollution
- 4) Noise Pollution
- 5) Radioactive Pollution
- 6) Thermal Pollution
- 7) Marine Pollution

1) Air Pollution

The atmosphere is a mixture of gases, predominant one. Nitrogen (78.087%) oxygen (20.94%) Carbon dioxide (0.32%) and other gases are less than 1%. This is the composition of unpolluted atmosphere and this value remains constant upto very high altitude. Air is the most essential element for life, but this supporting natural element may

become a bitter enemy of life when it gets polluted. The atmosphere is said to be polluted if the concentration of any constituent increases or decreases abnormally to cause harmful effects on human beings and other living individuals.

Air Pollutants

1) Carbon monoxide: Carbon monoxide accounts for 50% of the total atmospheric pollutants. It is formed by incomplete combustion of fossil fuels.

Sources: It is produced by cigarette smoking, incomplete combustion of fossil fuels in automobiles, household, agriculture and industries etc.

Impact on Health

1) It has a great affinity with haemoglobin. It combines with Hb 200 times faster than oxygen. It forms Carboxy haemoglobin which reduces oxygen carrying capacity of blood.

2) It is highly poisonous and can lead to acute poisoning. loss of vision, abdominal pain, nausea etc.

Effect on Plants

- i) Excess CO_2 can cause premature ageing of plants.
 - ii) It causes leaf curling leaf drop and also reduces the nitrogen fixing efficiency of bacteria.
- 2) Carbon dioxide (CO_2): Under ordinary circumstances CO_2 is a harmless gas and all the life depends on it. But its higher concentration leads to environmental hazards. It is a greenhouse gas and produces global warming (greenhouse effect)

Impact on Health

- i) Larger doses of CO_2 may cause headache and fatigue
- ii) In higher concentration it can impair vision and adversely affect the nervous system.
- 3) Sulphur dioxide (SO_2): It is produced in large quantities during smelting of metallic ores like iron, zinc and copper, burning of

Impact on Humans

- i) It irritates the respiratory tract and eyes.
- ii) It can cause and chronic asthma.

Effect on Plants

- i) Plant shows leaf tip and margin burning, reduced growth and yield
- ii) Hydrogen Sulphide (H_2S): It is produced by biological decay of protein material in stagnant water, Paper Mills, Sewage treatment plants etc.

Impact on Health

- i) At higher conc it can lead to blockage of O_2 transport
- ii) It acts as cell poison and damage the nerve cells
- iii) Oxides of Nitrogen sources: Produced in atmosphere electrochemically and by lightning of fossil fuels at high temperature. The most important nitrogen oxides are N_2O , NO , NO_2 , N_2O_4 , N_2O_5

Impact on Health

- i) The oxides possess mutagenic property
- ii) NO_2 Causes irritation in eyes respiratory tract and cause cough.

Effect on Plants

- i) Higher concentrations lead to death of plants
- ii) Nitrogen oxides produce lesions, necrosis in plants.

↳ Chloro Fluorocarbons (CFC_2) - Freon Chlorofluorocarbon
edhoonu these are the main toxic gases which are used as coolant These are the main sources of CFC. They are also emitted by leaf plants

Impact on Health

- i) They pass in food chain, act as poison and affect reproductive system.
 - ii) Effect nervous system of human beings.
- ↳ Smog It is formed by the combination of smoke and fog. It is of two types.
- i) Classical Smog (London Smog): It is a brown smog which

develops from Smoke dust Particles, Water Vapours hydrogen Sulphide and Sulphur dioxide.

- ii) Photochemical Smog (Los Angeles Smog): It is yellowish brown smog formed by photochemical reaction between nitrogen oxide and hydrocarbons which produce secondary pollutants like ozone, PAN, aldehyde and Phenols.

Health Impacts

a) PAN - Cause eyes irritation and Respiratory Stress

Impact on Plants

i) Leaf Spottings breakdown of Mesophyll

ii) Reduction in photosynthesis

b) Ozone

Cause eye irritation, Cough, chest discomfort, headache....

Impact on Plants

Damages leaves, Reduces growth, Productivity and Reproduction

c) organic Derivatives [Aldehyde and Phenols]

i) Cause irritation in Gastro-intestinal and respiratory tract

ii) Cause Skin Cancer, damage liver

Impact on Vegetation

Toxic to Plants

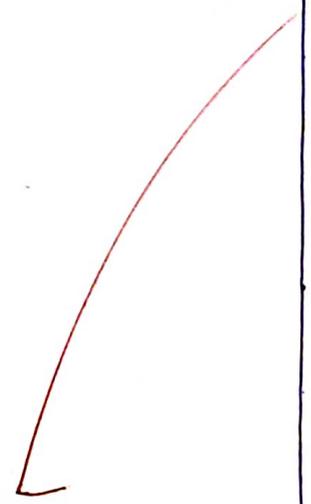
8) Lead (Pb): It is produced by vehicular exhaust, inverter batteries

It interferes with the brain cells in children

ii) It interferes with the development and maturation of RBC's.

iii) It causes infertility and complication in pregnancy

9) Mercury (Hg): The major sources are Pesticide industries, mining and Refining of Mercury





The University of Burdwan



TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAY

Estd-2006 & Affiliated to the University of Burdwan & Recognized by UGC under 2[F] & 12[B]

ENVS PROJECT (2022-2023)

An Empirical Description of Water Pollution at Rampurhat Town



Submitted by

AVIK MAZUMDER

ROLL:-169

REG NO:- 202201036432

Roll No 2220131300018.

Examined by
[Signature]
29/05/23

Guided by

Dr. MD HASAN ASKARI

(i) Preface

This Report of the Comptroller and Auditor General of India for the year ended November 2022 containing the results of the Performance Audit of water pollution in India under Article 151 of the Constitution,

The Performance Audit was conducted during July 2021 to February 2022 through document analysis, collection of responses to questionnaires, physical collection and testing of samples, records and documents relating to the issues in the Performance Audit were examined,

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Thank You

Avik Mazumder.

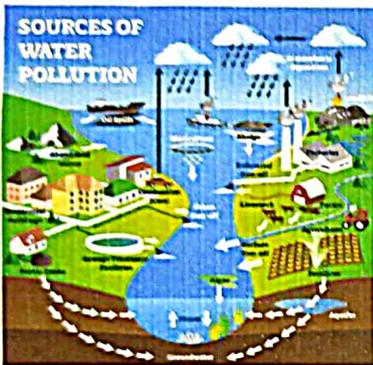
(iii)

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(1) INTRODUCTION

We know water's another name is life, water is one of the most important natural resources, which is absolutely essential in having life and living life. A part from sustaining life, water is used for various essential purpose, water pollution is again a major global problem which harms the comfortable living of us.



It has been proved that water pollution is a major cause of death and disease worldwide, In the world every day more than 1400 people die for water pollution only, The amount of water pollution in India has increased to such an extent that it has become serious and many people are suffering from various diseases due to this water pollution.



(2) OBJECTIVES

- 1) Define water pollution,
- 2) Discuss how sewage is related to biochemical oxygen demand (BOD).
- 3) understand and explain what is water pollution,
- 4) Identify and describe factors contributing to water pollution,
- 5) understand the impact of these on the environment, people, plants and animals,
- 6) understand and describe why we need to control water pollution and conserve water,
- 7) propose appropriate solutions for safe cleaning methods at home.



(3) STUDY AREA

About three fourths of our Planet Earth surface is covered by water, but three fifths of our village/Town Taba Pur, Taba Pith, Rampurhat, Nalhati and many others surface is covered by water, Two of them are located besides my home, In these two ponds are highly polluted.

(4) METHODOLOGY

A specific plan was adopted for water monitoring in the environmental studies class, Here is a list of things to focus on during water monitoring—
(a) Color of water
(b) water temperature
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(d) Animal and plants found in water and near water bodies
(e) Causes of water pollution,

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(b) PH paper
(c) thermometer
(d) net
(e) the letter,
(f) note book
(g) pencil
(h) eraser etc.,

Water Pollution in the Rampurhat Town

(5) CAUSE OF WATER POLLUTION

There are many reasons of water pollution, they are discussed below.

- 1) Industrial waste,
- 2) Agricultural Discharges,
- 3) Radioactive waste,
- 4) Thermal Pollutants
- 5) Marine dumping.
- 6) Leakage from sewer lines,
- 7) underground storage leakage,
- 8) Global warming,
- 9) Covered by leaf, water Hyacinth,



Industrial waste



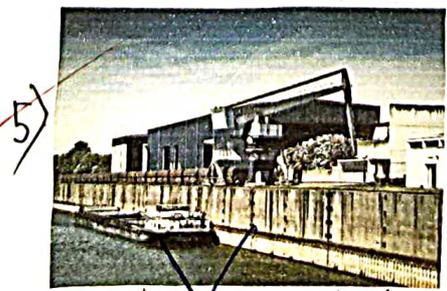
Agricultural Discharges



Radioactive waste



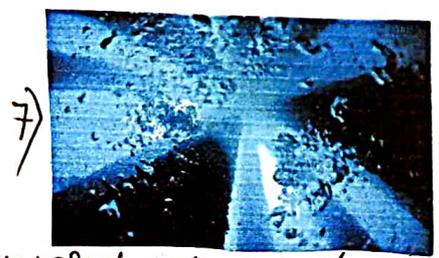
Thermal Pollutants



Marine dumping



Leakage from sewer Lines



underground storage leakage



Global warming



Covered by leaf water Hyacinth

(6) EFFECTS OF WATER POLLUTION

Water Pollution damages human health makes our living conditions precatious and threatens life on the planet and the Rampurhat Town, There are many effects of water pollution, They are discussed below.

- 1) Effects on aquatic ecosystem,
- 2) Effects on human health,
- 3) Hazards of ground water pollution,
- 4) Eutrophication,
- 5) Algal Bloom,
- 6) Dying of fishes,
- 7) Dying of Aquatic creatures,



Effects on aquatic ecosystem



Effects on human health



Hazards of ground water pollution



Eutrophication



Algal Bloom.



Dying of fishes

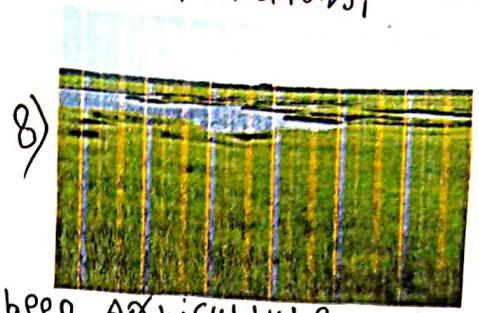


Dying of Aquatic creatures

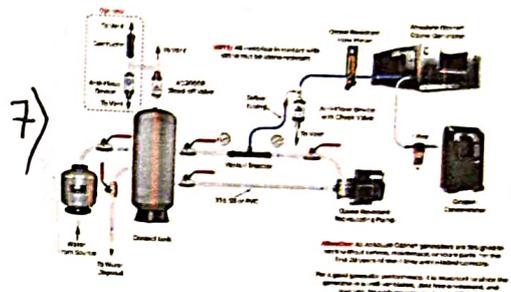
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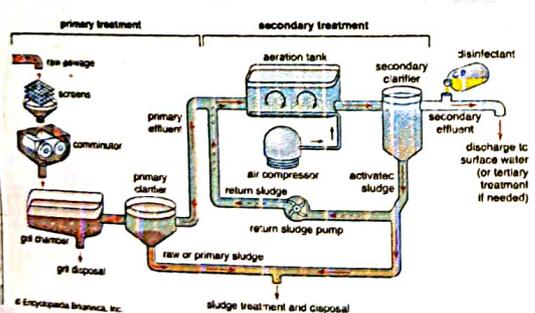
- 1) Waste water Treatment.
- 2) Reducing Plastic waste,
- 3) Water Conservation,
- 4) Septic Tanks,
- 5) Do not use the Toilet as a Trashbin,
- 6) Storm water management,
- 7) Ozone water waste treatment,
- 8) Green Agriculture and wetlands.



Green Agriculture and wetlands



Ozone water waste treatment



Waste water Treatment

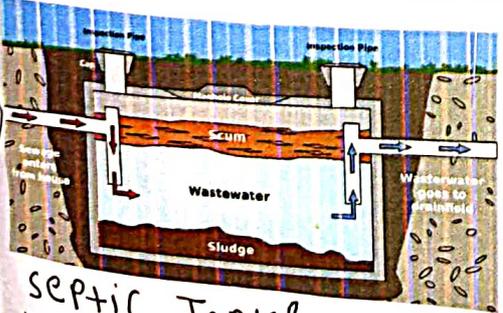
OUR WORLD OCEAN provides

<p>THE AIR WE BREATHE</p> <p>>50% The ocean produces more than half of the world's oxygen and absorbs more than a third of the carbon dioxide from the atmosphere.</p>	<p>CLIMATE REGULATION</p> <p>70% Covering 71% of the Earth's surface, the ocean transports heat from the equator to the poles, regulating our climate and weather patterns.</p>
<p>TRANSPORTATION</p> <p>76% For one of all shipping ports from around the world.</p>	<p>RECREATION</p> <p>From fishing to boating, swimming, and water watching, the ocean provides us with an array of fun activities.</p>
<p>ECONOMY</p> <p>\$28.6 trillion The U.S. alone produces as much as 10% of the world's goods and services. Our exports depend on the ocean for 10% of our supply.</p>	<p>FOOD</p> <p>1/3 The ocean provides 1/3 of the world's protein and 1/2 of the world's fish and seafood.</p>

Reducing Plastic waste



Water Conservation



Septic Tanks



Do not use the Toilet as a Trashbin



Storm water Management

(8) CONCLUSIONS

Water Pollution is one of the major environmental pollution, which destroys the environment, animals and our daily comfortable life. So we must be aware about water pollution as we are all the reasons behind it.

As a student we should understand this world wide problem of water pollution and think about its remedy. And we should convince others about this.

We need pure water to live a healthy life and we are well aware of the existing situation. This is need of the hour to counter the problem of water pollution. Government authorities should ensure that factories, industries and individuals are not dumping waste into water bodies.

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Books

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- 2) WBBSE board class 10 Geography text book.
- 3) Water Pollution and Abatement Policy in India.

Websites

- 1) epcb.nic.in.
- 2) www.wpcb.gov.in
- 3) www.environmentalpollution.in
- 4) www.britannica.com
- 5) youtube.com.



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ENVS PROJECT (2022-2023)

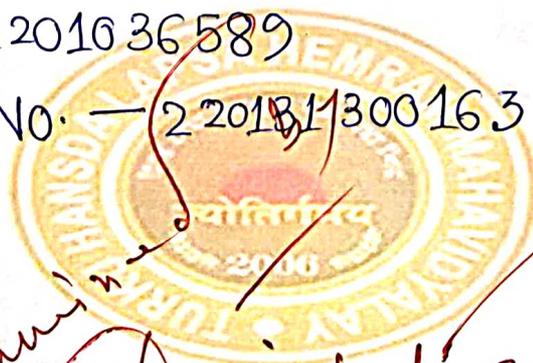
An Empirical Description of Water Pollution at Mollarpur Town



SUBMITTED BY
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ROLL :- 189

REG NO:- 202201036589

University Roll No. — 220181300163



Guided by
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Suravi Mondal

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Introduction

We know water's another name is life water is one of the most important natural resources, which is absolutely essential in having life and living life. Apart from sustaining life, water is used for various essential purpose. water pollution is again a major global problem which harms the comfortable living of us.

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OBJECTIVES

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- 2) Discuss how sewage is related to biochemical oxygen demand (BOD).
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- 5) Understand the impact of these on the environmental people, plants and animals.
- 6) Understand and describe why we need to control water pollution and observe water.
- 7) Propose appropriate solutions for safe cleaning methods at home.



Study Area

About three fourth of our planet earth's surface is covered by water. But three fives of our village Tarapur, Tarapith, Mollarpur and many others surface is covered by water. Two of them are located besides my home. In these two ponds are highly polluted.



METHODOLOGY

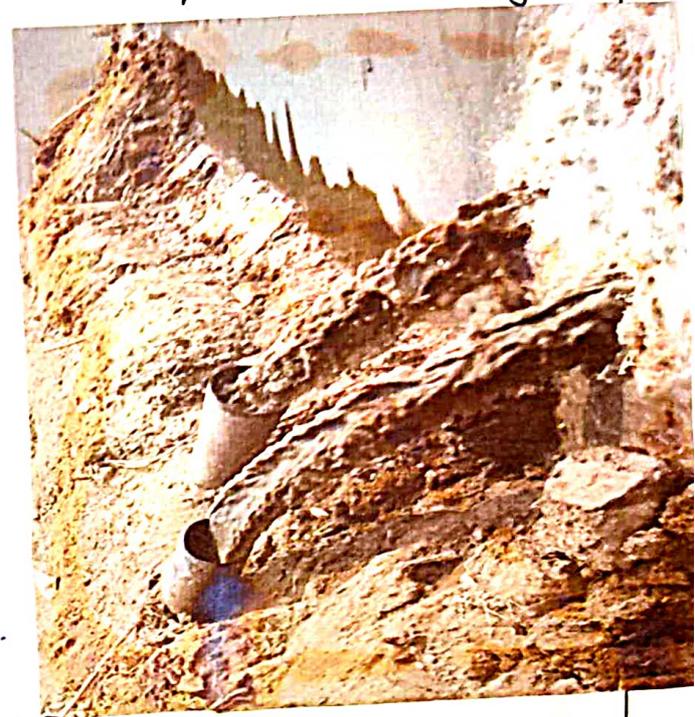
(a) A specific plan was adopted for water monitoring in the environmental studies class. Here is a list of things to focus on during water monitoring — (a) colour of water (b) water temperature (c) water PH (d) animal and plants found in water. (e) cause of water pollution.

Besides, the following materials are used for water monitoring — (a) disorder (b) PH paper (c) thermometer (d) net (e) the letter (f) pencil (h) erasers.

Cause of Water Pollution

There are many reasons of water pollution. They are discussed below :-

1. Industrial waste
2. Agricultural Discharges
3. Radioactive waste
4. Thermal pollution
5. Marine dumping
6. Leakage from sewer lines.
7. Underground storage leakage
8. Global warming
9. covered by leaf, water Hyacinth.



Effects of Water Pollution

Water pollution damages human health makes our living conditions precarious and threatens life on the planet and the ~~Mollatpur~~ town. There are many effects of water pollution. They are discussed below.

1. Effects on aquatic ecosystem.
2. Effects on human health.
3. Hazards of ground water pollution.
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6. Algal bloom
7. Dying of fishes
8. Dying of Aquatic creatures.

Suggestions of Water Pollution:

There is no single or simple answer to stop the water pollutions. However, there are many solutions to prevent water pollutions on both in my locality and within industries. There are many suggestions of water pollutions. They are discussed below.

1. Waste water Treatment.
2. Reducing plastic waste.
3. Water conservation
4. Water-efficient toilet
5. septic Tanks
6. Do not use the toilet as a Trashbin
7. Green Agriculture and wetlands
8. Deforestation
9. Some water waste treatment.



CONCLUSION

Water pollution is one of the major environmental pollution which destroys the environment, animals and our daily comfortable life. So we must be aware about water pollution as we are all the resources behind it.

As a student we should understand this world wide problem of water pollution and think about its remedy. And we should convince others about this.

We need pure water to live a healthy life and we are all aware of the existing situation. This is need of the hour to counter the problem of water pollution. Government authorities should ensure that factories, industries and individuals are not dumping waste into water bodies.

