APPLICATION ON WATER POLLUTION

*Submitted to the*

**SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES**

In partial fulfillment for the completion of the

**First year Project**

**by**

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**Under the guidance of**

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**TAMILNADU, INDIA**

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**BONAFIDE CERTIFICATE**

This is to certify that the project report entitled **“APPLICATION ON WATER POLLUTION”** submitted by “G.MANOJ”192112143 , to Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, is a record of bonafide work carried out by him/her under my guidance. The project fulfills the requirements as per the regulations of this institution and in my appraisal meets the required standards for submission.

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ABSTRACT:

**This study was conducted at Department of Zoology, University of Gujrat, Pakistan during 2016- 2017 as a term paper for Master of Philosophy. The data regarding water pollution and human health was obtained and compiled through a thorough review of various published research articles of international reputed journal and relevant books. Water covers about 70% Earth’s surface. Safe drinking water is a basic need for all humans. The WHO reports that 80% diseases are waterborne. Industrialization, discharge of domestic waste, radioactive waste, population growth, excessive use of pesticides, fertilizers and leakage from water tanks are major sources of water pollution**

**INTRODUCTION:**

**Water pollution is the contamination of water sources by substances which make the water unusable for drinking, cooking, cleaning, swimming, and other activities. Pollutants include chemicals, trash, bacteria, and parasites. All forms of pollution eventually make their way to water. Air pollution settles onto lakes and oceans. Land pollution can seep into an underground stream, then to a river, and finally to the ocean. Thus, waste dumped in a vacant lot can eventually pollute a water supply.**

LITERATURE SURVEY:

**A literature reviewThe following review attempts to understand water pollution from a chronological perspective, representing the shift in sources of pollutants, namely from purely examining sewage to the contemporary issues of microplastics before recognising the research of naturally occurring factors affecting the overall water quality. Lastly, we review the change of focus surrounding the impacts of bad water pollution on health with specific regards to disease transmission.Key Terms:Water Pollution:Water resources are considered to be polluted when the physical, chemical and or biologicalcharacteristics of water are altered to such an extent that the utility for any reasonable purpose becomes dysfunctional or its environmental value is demonstrably depreciated. Sources of Pollution:Historically, sewage discharge was the most known contributor for water contamination.**

**ADVANTAGES:**

**1.Flow regularity**

**2.Low cost**

**3.Environment benfits**

**DISADVANTAGES:**

**1.Lack of specific regulation**

**2.lack of control to ensure quality**

**3.New pollutants**

CONCLUSION:

**Water pollution stems from many sources and causes, only a few of which are discussed here. Rivers and streams demonstrate some capacity to recover from the effects of certain pollutants, but lakes, bays, ponds, sluggish rivers, and oceans have little resistance to the effects of water pollution. We have a long history of introducing pollutants into aquatic environments, and have had only partial success at repairing the damage that has already been done and curbing the activities that result in environmental degradation. Nonpoint source pollution continues to be a serious threat to receiving waters, as does the continued release of sewage and industrial effluents throughout the world. As we have seen with mercury contamination in fishes, environmental pollution can have widespread and lasting consequences**

REFERENCE:

**Causes, Treatments and Solutions, by Dr. Luxmy Begum, P. Eng., First Edition, October, 2015**

**Water trivia Facts (March 6, 2012).**

**Water Contamination Effects. Information obtained on May 10, 2012**

**Where do waterborne diseases rank in causing human health problems? Information obtained on May 10, 2012**