



Water Pollution

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Abstract

Water pollution is a major problem in the World. This necessitates continuing assessment and review of water resource policy at all levels. The main objectives of this paper to make attention on major sources of water pollution. The findings indicate that the major problems related with water pollution is that human heart and kidneys can be adversely affected polluted water is consumed regularly. Other health problems related with polluted water are poor blood circulation, skin lesions, vomiting, cholera, gastroenteritis and damage to the nervous system. It also highlighted that residential, agricultural and industrial wastes are three main sources of river pollution. Finally, we discuss the water resource policies in India and provide some recommendations that will be helpful for policymakers to improve river water quality, particularly in India.

Key words:- water pollution, environment, health

Introduction:

After creation of earth the environment and condition were changed day by day. The environment also created due to the creation of earth. The environment is a natural creation where human lived with collaboration with nature and lived natural life. When human learned the word culture he estranged with nature and later he creating a perversion with the word culture. And upset the balance of the environment. Human being always tried to improve his life to pursue the improvement and progress manmade object and inventions are from environment. In addition the population of environment increase by the furtherance of science and industrialization. The numbers of polluters are increasing day by day. So the life of human being and all alive things is getting worst on the Earth in this condition an increasing population industrialization, deforestation, large scale of vehicles is responsible for pollution. We



have accept 21st century as a “Environment Saving Century”. As environmental problems man has robbed the mother earth of its resources without thinking to replace them. Nothing in the world can replace the water, air and soil. If we care for the nature then we will be cared for all. To care the nature maintaining the purity of water , air and soil planning there with the development of science. Human life changed considerably. In the process of progress natural resources were used liberally and environmental questions are arise. With the help of science it required huge effort from the scientist and questions. There are different types of pollutions like water pollution, air pollution, noise pollution and soil pollution

Water pollution is the biggest problem for human life. “Save Water Save Life” , “Water Is Life” this lines has very important in our country. In our body 2/3 part is water. Most of its requirements is provided by drinking water. Worldwide 97% of available water in ocean and sea. 2% is available on the form of ice south and north poles. Only one 1% water is available for different uses for human , out of which 0.75% is in the form of ground storage water and only 0.01% is in the form of surface water. In our country the biggest part are doing water pollution by rivers workshop. They do not think about pollution rivers. Now these days water is polluted by many reasons i.e. Industrialization, sewage , garbage , unplanned water irrigation and other religious and social causes are responsible for water pollution . Water pollution problems related with all rivers of India like Ganga, Godavari, Yamuna, Kaveri, Narmada etc.

Causes of Water Pollution:-

- 1) Sewage and Waste Products:-**There are two types of sewage: blackwater, or wastewater from toilets, and graywater, which is wastewater from all domestic sources except toilets. Blackwater and graywater have different characteristics, but both contain pollutants and disease-causing agents that require treatment .Different types of domestic activities of human beings made a lot of tons wastage in city area. Plastic items ,old parts of metal , polythene bags ,also people throw Domestic Garbage in water source and pollute it. These pollutants polluted to pure water.



- 2) **Industrial Efficient :-** Industry is a huge source of water pollution, it produces pollutants that are extremely harmful to Human being, animals and the environment. Many industrial facilities like steel, chemical, rubber, paper, sugar, shoe factories, use freshwater to carry away waste from the plant and into rivers, lakes and oceans. Most Industries require large amounts of water for their work. When involved a series of processes, the water comes in to contact with heavy metals, harmful chemicals radioactive waste and even organic sludge. Pollutants from industrial sources Asbestos , Lead, Mercury, Nitrates, Phosphates, Sulphur, Oil and Petrochemicals these things are very harmful to Human being, animals, soil, etc.
- 3) **Agriculture Discharge :-** After Green revolution farmers used advance equipment for Crop. Farmers used fertilizers, chemicals and fertilizers. In an ideal world, it would be possible to take an individual agricultural activity, the spraying of a particular pesticide at a known dose rate, the application of a specific amount of ammonium nitrate fertilizer, the stocking of a specified cattle breed at a given density, for example, and measure precisely the effects of these on, respectively, the fecundity of a particular fish species, the growth of aquatic plants in a receiving lake or the extent of silting of a river stretch.
- 4) **Religious beliefs :-** Most of our crematoriums are either at the banks of river or sea. Similarly, things immersed in water after performance of religious rites result in polluting water. Varanasi, Nashik, Pandharpur are the pilgrimage places visited by thousands of devotees on specific days. These pilgrims have bath in the river and throw flowers, leaves, remnant food and plastic bags etc. in the river water. All morning chores are also done at the bank of the rivers. Therefore, such religious ceremonies cause pollution in water.
- 5) **Hot Water:-** Thermal station is the degradation of water quality by any process that changes ambient water temperature. A common cause of thermal pollution is the use of water as a coolant by power plants and industrial manufacturers. When water used as a coolant is returned to the natural environment at a higher temperature, the change in temperature decreases oxygen supply and affects ecosystem composition. Fish and other organisms adapted to particular



temperature range can be killed by an abrupt change in water temperature (either a rapid increase or decrease) known as "thermal shock."

- 6) **Deforestation:-**Deforestation has an impact on the quality of water flowing through the watershed and alters the discharge, chemical and physical properties of water. Forests and water are highly important resources which provide many socioeconomic functions and services to human societies and the environment. However, the occurrence of disturbance on forests modifies and alters the discharge, chemical quality and physical properties of water. Due to its nature as a solvent, all water contains organic and inorganic matter and dissolved gases derived from its environment or the activity of living organisms. According to, the concentrations of substances and their biological, physical and chemical effects are the basic criteria in the determination of water quality.

Way to Control Water Pollution:-

- 1) **Sewage treatments:** The household water should be treated properly so that they become environmentally safe. Adequate care should be taken to ensure that effective sewage treatment process is in place and that contaminated water does not get mixed with the environment. in order to prevent Water pollution, human and animal excreta should be prevented from mixing with its sources. Construction of pit toilet and proper sewage treatments can offer some solution to this problem.
- 2) **Prevent river water to get polluted:** The flowing water of the river cannot be cleaned easily by natural process. Since, a large number of external substances are discharged into the water, the river water becomes polluted. This may cause diseases to the people using river water. Thus, every effort should be made to prevent the river water to get contaminated. People should not be allowed to throw wastes into the river water.
- 3) **Treatment of waste water:** Factories are expected to treat its effluent wastes prior to discharge. Toxic material must be treated chemically and converted into harmless materials. If possible, factories should try to recycle the treated water.



- 4) **Adherence to water laws:** Laws and legislation relating to pollution should be strictly followed by all. People should be made aware that adherence to water laws are in their own interest.
- 5) **Public Awareness:** Common public should be aware about the effect of water pollution. Voluntary organization should go door-to-door to educate the people about environmental problems. They should perform street plays for creating awareness about the environment. They should run environmental education centers. Students can impart health education to enable people to prevent water pollution

Conclusion:-

Clean water is essential for healthy environment to support life systems on this planet. The task of delicately balancing the ratio of available and exploitable water resources and sustaining their quality is most relevant in India where rainfall distribution is uneven and confined to 3-4 months in a year. Now its our First duty is "SAVE WATER SAVE LIFE".

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