

**CAUSES AND EFFECTS OF ENVIRONMENTAL POLLUTION.****Dr J. S. Ingle**Associate Professor,  
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Mo.No 97967520482E-mail – [jayarantingale@gmail.com](mailto:jayarantingale@gmail.com)**Abstract:**

*Presence of any pollutant in the environment is called as environmental pollution. Air pollution, water pollution, noise pollution, thermal pollution, marine water pollution, nuclear hazards these are the major types of environmental pollution. There is close relationship between the environment and the increasing population. Due to increasing population we are facing the problem of environmental pollution. In tourist places like PanchaganiMahabaleshwar there is cutting of the trees in large number. So people have to face the calamities like drought. The air is polluted because of the oil purification factories and likewise other factories. Now a days in order to increase or improve the productivity of the land farmers are using many types of chemical fertilizers, insecticides, pesticides. Development and environment are complementary to each other. For rapid economic development all types of natural resources are exploited and misused. Multinational corporations are established in the tribal or hilly areas and caused the deforestation. The restrictions on import and export are relieved and unlimited natural resources are exploited in order to gain more benefit or profit. There are some major ill effects of environmental imbalance. The percentage of rain has been reduced .The problem of drought is becoming serious. The problem of floods in the rivers due to deforestation and soil erosion. Diseases are increasing due to water pollution which causes deaths of many people. Dissertation of the forests creates the problem for the animals and birds. Acid rain is cause because of various chemicals used in the industries. The researcher has suggested some solutions for protection of environment. It is very necessary to implementation of various environment protection acts effectively and strictly. It is very necessary to implementation of tree plantation scheme or programmer in every village. Ban the companies / industries to leave waste harmful water or chemicals in the rivers. Spreading of environmental education and training institutes all over the county.*

**INTRODUCTION**

The term ‘Environment’ comes from French language .The word **environ** means surrounding and **meant** means to live.As mentioned in Environment Protection Act.1986 the definition of environment is:

“The interaction between biotic (animal, plants)and abiotic (minerals, water, temperature, sunlight) component is known as environment.”

Pollution word comes from Latin language .Pollution means to add some dirty and harmful elements in atmosphere .According to Environment Protection Act, 1986 “Environment Pollutant means any solid, liquid or gaseous substance present in which concentration as may be injurious to environment.” presence of any pollutant in the environment is called environmental pollution .The another definition of the word pollution or environmental pollution is given below.

“Addition of any materials in excessive amount in the physical environment (water, air and soil)which make it less fit or totally unfit for sustaining life systems.”

### **Types of Environmental Pollution**

Air pollution, water pollution, soil pollution, Noise pollution, Thermal pollution, Marine water pollution, Nuclear hazards these are major types of environmental pollution. The definitions of types of pollution are given below.

- 1) **Air pollution** According to Air (Prevention and Control of pollution) Act, 1981. “Air pollution means the presence in the atmosphere of any pollutant is called air pollution.” Air pollutant means “Presence of solid, liquid or gaseous substances including noise in the surrounding atmosphere in such a concentration as may be injurious to human, other living creatures, plantspecies, environment.”
- 2) **Water pollution** According to water (Prevention and control of pollution) Act, 1974 “Change in physical, chemical and biological properties of water, which creates a harmful impact over human health, aquatic animals, other living creatures, micro –organisms and related ecosystem is called water pollution.”
- 3) **Soil Pollution** Alteration in physical, chemical and biological characteristics of soil, which has adverse effects on living and non-living things, is known as soil pollution.
- 4) **Noise Pollution** Noise pollution is defined as ‘Uneasy, unwanted and undesired sound produced by natural and human activities.’
- 5) **Thermal Pollution** The thermal pollution is defined as “any undesirable heat of water harmful to man, animal, aquatic life or it causes significant departure of aquatic communities.”
- 6) **Marine Water Pollution** International Oceanographic Commission (IOS) defines marine pollution as: “ Introduction by man, directly or indirectly of substances into marine environment (including estuaries) resulting in suchdeterious effect as harm to living resources, hazards to human health or hindrance to marine activities and reduction of amenities .”
- 7) **Nuclear Hazards** Natural sources and man-made sources these are two major sources of nuclear hazards, Most dangeroussources of nuclear weapons are nuclear fission, nucleartests and nuclear weapons. Some radiations are very harmful to human and animals.

### **Causes of Environmental Pollution**

There are two main causes of environmental pollution 1) Natural causes and 2) man made or artificial activities. Some major causes are as follows.

- 1) **Increasing Population** There is close relationship between the environment and the increasing population. India has the highest population growth rate. Today the population of India is more than 123 crores. According to the experts the population of India is excess population to meet the expenses of this excess population people are making over use of the natural resources. There is a problem of deforestation because we are cutting the trees. So we are facing the problems of pollution. Due to increasing population we are facing the problems of air pollution, water pollution, noise pollution, soil pollution etc.,
- 2) **Growing Tourism Industry** In order to provide accommodation and hotel facility to the tourists people are cutting the trees. In tourist places like Panchagani, Mahabaleshwar there is cutting of the trees in large number. Because of this cutting of the trees the percentage of rain has reduced. And so people have to face the calamities like drought.
- 3) **Industrilization** In order to achieve rapid economic development Indian government has accepted the way of industrialization. There are so many small and big factories in India

.The air is polluted because of the oil purification factories and likewise other factories also cause pollution .According to latest survey the lacks of people have died due to pollution .The harmful chemicals are illegally mixed in the water of river and sea .After drinking the polluted water so many people have to lose their lives .Trees are cut to make furniture and fuel in factories, houses etc. So in this Way industrialization is one of thecauses of environmental pollution:-

- 4) **Use Of Chemical Fertilizers Insticides etc.** India is the country where the farming or agriculture is the main occupation. More than 65% people are dependent on agricultural sector. Now a days in order to increase or improve the productivity of the land farmers are using many types of chemical fertilizers, insecticides, pesticides. So these elements are harmful for the soil / fertile land. Because of excess use of chemical fertilizers and water the land becomes salinated. Fertile lands becomes salinated lands. So overuse of fertilizers and water the land is being polluted.
- 5) **Economic Development** Development and environment are complementary to each other. For economic development all types of natural resources are exploited and misused .So the exploitation or over use of natural resources like forest, water, soil etc. the problem of drought is created.
- 6) **New Economics Policy (N.E.P)** India has accepted /implemented the New Economic policy since 1991 .Globalization, Privatization and Liberalization these are salient features of New Economic Policy. So this policy effects on the environment. Large number of domestic and foreign / multinational corporations (M.N.Cs) are entered / established in the tribal or hilly areas and caused the deforestation .The multinational companies which make the cold drinks use the water under the surface, So there is the problem of scarcity of water, the restrictions on import and export are relieved and unlimited natural resources are exploited in order to gain more benefit or profit. So there is an environmental degradation.
7. **Urbanisation** Most of the people are migrating from rural to urban areas in order to get the opportunities of employment. So the population in the cities is increasing day by day very fastly .There is lack of accommodation. The problem of garbage is created because of the over population .It is very difficult for the administration in the cities to manage the garbage collection. This garbage causes various types of pollution. There is a problem of sewage water /waste water. Large number of vehicles leave dangerous smoke in air which proves to be harmful for people living in the cities. Many people suffer from the diseases like cancer, Asthma, problem of liver, kidney etc.
8. **Burning of forests** The forest are burnt by two ways 1) By the people for their use and (2) Natural. So in this process/calamities so many trees are destroyed.

#### **Effect of Imbalance of Environment:**

The imbalance in the environment is created because of increasing population, urbanization, industrialization etc. so there are some major ill effects of environmental imbalance .They are as follows.

- 1) The percentage of rain has been reduced .The problem of draught is becoming serious.
- 2) The fertility of land declined due to soil erosion.
- 3) The problem of floods in the rivers due to deforestation and soil erosion.
- 4) Land salination problem is created because of overuse of water and chemical fertilizers.
- 5) Ozone depletion is caused by the pollutions of various types
- 6)  $\text{CO}_2$  is increased in the atmosphere.

7) Diseases are increased due to water pollution which causes deaths of many people. 8) Modern civilization in the cities is caused due to deforestation which is harmful for the society 9) The problem of garbage is becoming very serious in the cities 10) Desertation of the forests creates the problem for the animals and birds. 11) Due to cutting of trees thousands of species are destroyed every year. According to Scientist more than five lakh species will be destroyed within twenty five years. 12) Shortage of drinking water 13) Acid rain is caused because of various chemicals used in the industries 14) Life expectancy is reduced due to environmental pollution. 15) Government has to spend a lot of money to maintain the balance of environment every year.

### **Solutions on Environmental Imbalance**

The researcher has suggested some solutions for protection of environment

1) To control the rate of growth of population 2) Stop the migration of rural population towards the cities. 3) Ban the factories / industries causing pollution 4) Use diesel and petrol as less as possible. 5) It is very necessary to implement tree plantation scheme or program in every village. 6) Proper management of sewage water/ waste water. 7) Use of alternative source apart from wood like solar energy, wind energy and biogas. 8) The industrial estates must be established away from the cities or village. 9) Control the use of Vehicles. 10) It is very necessary to implement various environment protection acts effectively and strictly 11) Ban the companies / industries to leave waste harmful water or chemicals in the rivers. 12) Spreading of environmental education and training institutes all over the country. 13) To plant the trees in waste land 14) In order to preserve the environment the government should sanction more funds. 15) Non-Government Organizations (NGOs) and social workers should be motivated to preserve and protect the environment. 16) Inspire the people and the universities to do research on environmental problems

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