

## **Pollution Awareness – Effect of Pollution and Ways to Control Pollution**

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### **I. Introduction**

Growing awareness of the harmful effects on the environment caused by human activities has led to increasing pressure from local communities, groups, environmental organizations, and government regulators on industries to reduce their pollutant emissions. The need for pollution assessment in the developing countries (where necessary information to set priorities, strategies, and action plans on environmental issues are lacking) has led to the development of the Industrial Pollution Projection System (IPPS) by the World Bank. IPPS is a cheap and rapid environmental management tool for pollution load estimation towards the development of appropriate policy formulation for pollution control.

An undesirable change in the physical chemical or biological characteristics of air, water and soil that may create hazard or potential hazard to the health safety or welfare or living species is called Pollution. K. C. Agrawal

### **II. Effects of Pollution on Our Environment :**

#### **1. Water Pollution –**

The effect of pollution are far-reaching and liable to affect the eco-system for many years to come, most human activities and other work require large amount of water for doing them. When involved in a series of processes, the water comes into contact with heavy metals, harmful chemical, radioactive waste and even organic sludge. This are either dumped into open oceans or rivers. As a result, many of our water sources have a high amount of industrial waste in them, which seriously impacts the health of our ecosystem. The same water is then used by farmers for irrigation purposes, which affects the quality of food that is produced by water pollution.

#### **2. Soil Pollution –**

Soil pollution is creating problems in agriculture and destroying local vegetation. It also cause chronic health issues to the people that come with such soil on a daily basis.

#### **3. Air Pollution –**

Air pollution has led to steep increase in various illnesses and it continues to affect us on a daily basis. With so many small, mid and large scale industries coming up, air pollution has taken toll on the health of the people and the environment.

#### **4. Wildlife Extinction –**

By a large, the issue of pollution shows us that it causes natural rhythms and patterns to fail, meaning that the wildlife is getting affected in a severe manner. Habitats are being lost, species are becoming extinct, and it is harder for the environment to recover from each natural disaster. Major accidents like oil spills, fires, the leakage of radioactive materials and damage to property are harder to clean-up as they have a higher impact in a shorter timeframe.

#### **5. Global Warming –**

With the rise in pollution, global warming has been increasing at a steady pace. Smoke and greenhouse gases are being released by industries into the air, which causes an increase global warming.

#### **6. Biodiversity Loss –**

Pollution continues to cause significant damage to the earth and all of its inhabitant due to chemical wastes, pesticides, radioactive material etc. It affects wildlife and ecosystems and disrupts natural habitats. Animals are becoming extinct, and habitats are being destroyed. The increasing liquid, solid, and hazardous wastes undermine ecosystem health and impact on food, water and health security.

#### **7. Atmospheric Deposition –**

Cadmium enrichment of soil can also be associated with industrial pollution. Top soils contaminated by mine

spoils showed a wide range of Cd concentrations.

### **III. Ways to Control Pollution :**

The issue of pollution is critical to every nation on the planet. With the increase of the harmful effects of pollution, there are many agencies and individuals working to control pollution and live and work in an eco-friendly way.

#### **1. Source Control –**

Adopting new technology, efficient training of employees for safe use and development of better technology for disposal of waste, and being more conscientious about the use of raw materials can help control pollution at the source.

#### **2. Recycling –**

Recycling as much polluted water in the industries as possible by increased recycling efforts to reduce industrial pollution.

#### **3. Cleaning of Resources –**

Organic methods should be adopted to clean the water and soil, such as using microbes that use heavy metals and waste as feed naturally. Colling rooms of bins need to be developed that allow pollutants to recycle them.

#### **4. Industry Site Selection –**

Consideration of location of the sites and the potential impact on the surrounding environment can help reduce harmful consequences.

#### **5. Proper Treatment of Industrial Waste –**

By developing and implementing adequate treatment facilities for handling industrial waste and proper habits can reduce pollution.

#### **6. Rebuilding Habitats and Afforestation –**

Rebuilding habitats by planting more trees and plants can help give wildlife back their homes, and the trees can help purify the air with enough oxygen, and act as a buffer against the environment.

#### **7. Stricter Laws and Enforcement –**

The Environmental Protection Agency (EPA) works to correct the damage from pollution. There should be more stringent rules to take action against the companies who do not follow proper protocol and more significant rewards for the companies who operate properly. It required creating policies that prevent misuses of land

#### **8. Regular Environmental Impact Assessment –**

Being a responsible company should require regular environmental impact assessments that are reported for evaluation. If there are harmful impacts discovered during the review, necessary action to correct the negative consequences should be developed and enforced.

### **References**

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