

Ecological Catalysms and Ways to Improve the Biodiversity

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The life supporting systems of our earth are much threatened on account of deforestation, overuse of energy resources and damage to the environmental habitats. The ecosystem degradation is a leading environmental problem that makes the species of the world to be not survivable in this environment. The ecosystem of this world is destroyed in many ways and it is evident when we see the lushness of the ecosystems is destroyed and it leads to destruction the indigenous species or make the species engendered and soon to be extinct. The ecosystems are considered to be the wealth of the society and it is very essential to keep our ecosystems safe and secure.

Global warming has led to the change in the earth's climate and depreciate in the availability of natural resources. Accumulation of non- degradable wastes, soil exhaustion and the destruction of ecosystem is very evident. Over population and the irresponsibility of the human that does not care about the environment play a major role in the huge number of loss in animal and plant species. In order to acquire sustainability in the ecosystem it is essential to adopt different methods in managing the biodiversity of the environment. It has to be accepted that there is a lot of connection between the environment and human health. The risk factors have been studied and it is proven that the environmental degradation has caused a significant impact on human health, as the human body is exposed to harmful agents that are caused by disturbing the life sustaining ecosystems (Remoundouand Koundouri, 2009).

In order to highlight the importance of sustainable resource management and preservation it is very important to embrace various methods and approaches to conserve our

ecosystem. It is required to reduce the process of degradation and the loss of endangered species it is very important to give specialized solutions and an insight in understanding the nature's ways and the impact of ecology on human and vice versa. Our ancient scriptures have mentioned many practices that would help in the conservation of the ecosystem around us. It is high time now that many practices have to be undertaken in order to understand the environmental concerns and it is essential to follow sustainable methods to develop the improvement of ecological resources. The degradation of the ecosystem and biodiversity is because of the following causes: Pollution, Deforestation, Soil erosion, Plastic usage, water pollution due to factory waste and dumping of garbage in the rivers and sea, destruction of forest resources and disposal of medical waste. When ecology is destructed it leads to global warming and that leads to ozone depletion and this leads to health hazards to animals and humans.

Causes of ecological degradation

The ecological degradation is caused by the following factors like industrialization, deforestation and population explosion etc. Environmental pollution refers to the degradation of quality and quantity of natural resources. Human activities have become a major reason for the ecological disasters. The emission of gases from factories and vehicles have increased the amount of toxic elements in the air. Waste products from factories and the smoke from vehicles are the main reasons for pollution. Urbanization and the thickly populated cities have enormous change in the reason for land, air and water pollution. Over use of consumption in the use of natural resources has also resulted in the destruction of the environment. Also the use of insecticides and harmful pesticides have resulted in the spoiling the nature of the soil. Unmanagement litters and sewage has led to the deterioration of the environment. The forest has been cleared, as population is growing rapidly and the requirement of the people is also

demanding. Hence deforestation has resulted in global warming. To add, the emission of chlorofluorocarbons from refrigerators and air conditioners are the reasons for ozone depletion.

There are many social factors that leads to environmental degradation:

Population Explosion

The population has been growing enormously and the economic development in our India is also falling down due to the environment degradation and the expansion of agriculture lands by destroying the forests by destroying natural habitats. The natural resources are exploited and it is becoming very scanty day by day (Ganesh et al. 2007; Lakshmana 2008; Sharma 2008). Population is a factor that develops and it exceeds in the usage of the natural resources. The impact of the population is great and the production of garbage and wastes have caused a pressure as the arable land is filled with impurities. There are various reasons that contribute to the increase in the rise of population. As of 2011 the population in India is 382 persons per sq.km. But in 2016 the population per sq.km is 445. India is the second populated country in the world and it holds 187 percent of the total world population in just 2.4 percent of the total world land mass (James 2011).

Poverty

Population Explosion cause poverty and poverty becomes a most important factor for environmental degradation. Imbalance and unsustainability occurs more for the poor people. The poor depends on the normal assets more than the rich and drain their characteristics quicker than the rich. The population explosion leads to stagnant productivity and it is the most important reason for poverty in most parts of Asia(Senuguptha 2005; Saxena 2006; Sainath 2007). As the population increases towards the 21st century the per capita utilization are coming down and it is draining the usual assets and is degrading the environment.

The burden on the environment is increasing every day as the population grows. The increase in population leads to the rising levels of utilization of the available resources that are draining at a faster rate and its effect depends on the availability of the resources in the future. The consequences of over population are poverty. The inequality in the dispersion of assets and constrained employment opportunities and the thickening of population in urban zones have increased the impoverishment as the poor depend on the available resources. The migration to urban areas have caused a rural failure and has created unhealthy cities that had led to land, water and air pollution.

Air Pollution

Air pollution is one of most common reasons for environmental degradation. Pollution has introduced poisonous pollutants into the environment that can damage or even kill animal and plant species. Factories and automobile emissions are the primary and secondary factors that contribute to air pollution in the world. Air pollution cause a major environmental risk to health and have caused major respiratory infections, heart disease, and lung cancer. The quality of air is a primary concern in our country today. For one gallon of gasoline that are manufactured, and distributed, and when burned in a vehicle, 25 pounds of carbon dioxide are produced and emitted, along with carbon monoxides, nitrogen dioxide, sulfur dioxide and particulate matter; these emissions contribute to increased global warming (Mark, 1997). In 1997, the Environmental Protection Agency (EPA) have proposed new rules that are required for diesel manufacturers to build better engines and the oil industries to produce much efficient and cleaner fuel. By keeping the rules as base, the minimal mile-per-gallon requirements for SUVs could should match those of automobiles (Kluger, 1999), although the present administration has been against these changes. Few forms of air pollution, which are inhalable with particulate matter that contains ambient lead, enable serious matters for alarm

in the developing countries since they have been associated with severe health hazards in pecuniary terms. (Martin Donohue, 2003).

Water Pollution

Water pollution and micro-organism contamination of groundwater owing to sewage outfalls and the presence of high level of nutrients in marine and coastal waters owing to agricultural surfeit are the most serious threats. Unsafe and polluted drinking waters and bathing in unsafe waters can create serious risks to human health. Discharge of untreated sewage in the ground waters and at reservoirs are the most important reasons for pollution that are caused in surface and ground waters in India. There has to be lot of improvements that must be done in treating domestic wastes in rural areas. There is an absence in the development of treatment of sewage waters in India and hence water Pollution is becoming a major concern in today's world.

Land Degradation

Excessive pressure on land are the main reason for land degradation. The competing demands of the growing population and the increasing demand for food, fiber and fodder have also caused land degradation. Number of human activities, like building large scale canals for irrigation, deforestation and misuse of land has led to soil degradation. The impact of degradation is seen in the salinization of ground water, flood, erosion, drought and waterlogging. Because of these reasons there is a decrease in agricultural productivity that led to insecurity of the society. Green houses has been increased in the atmosphere resulting in global warming which is the most important reason for the destruction of earth.

Global Warming

Climate Change has been the world wide factors that is causing environmental degradation and disasters. There had been no climate change in the ancient world but the present world is

warming drastically. The earth's temperature has increased between 1.8° C and 4° C and it could be possibly increasing by 6.4° C by 2100. The sea levels have been increasing by 3.1 millimeters by the melting polar ice caps and the rainfall patterns have changed and some areas have face droughts. The glaciers have been melting and have increased the river levels. Winds are increasing in power and cyclones are in frequent and oceans temperature are increasing. Most of the natural disasters have been because climate change related hazards and most of them are happening because of Global warming as there is a huge change in temperature and precipitation. Hence the ecosystem has given an effect of extreme humid and dry conditions which has reduced agriculture potentiality. Thus a delirious effect is seen in the affecting environment by killing the biodiversity in our world.

Steps that can be taken

The following are the effective measures that can be taken to decrease the environmental degradation in our world.

- Avoid in usage of plastic products
- Usage of recycled and bio degradable products
- Effective water Conservation
- Waste mustn't be thrown at inappropriate places
- Energy Conservation
- Awareness must be created among the people on environmental degradation

The damage that are caused to the environment is mainly because of the production of cheap goods that have very short life span and not bio degradable. It has to be accepted that plastics and e wastes have made the environment not safe for sea life and animal life. Plastics have reached the deepest part of the sea and have been unsafe for sea life. affecting the planet's capacity to restore its environmental services in good time. Non - biodegradable things have

made this planet die very slowly. This paradigm has to change our interface with the environment. We were born peacefully in this environment and we have to maintain this as we are responsible for every damage to the environment. We should think of our future generations who will need this earth after us.

Conclusion

Environmental degradation have posed a major threat to human health. Due to the harmful effects of this degradation humans face terrible health hazards that have been already being felt and could have grown worse in the next 50 years. It is the duty of every individual to maintain the ecological standards of the environment to stop the ongoing ecological degradation.

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