

Manmade Disaster Its Impact Prevention And Mitigation

Neetu Sheokand
Ex- Research Officer
HIPA, Rohtak

Email Id- sheokandneetu@gmail.com

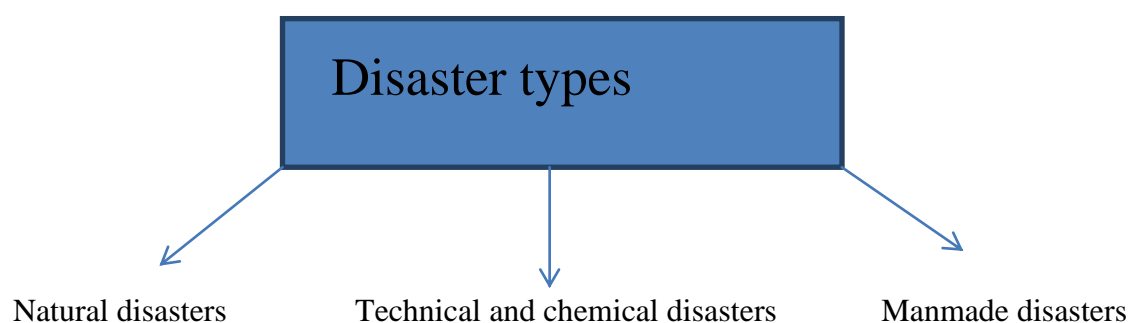
Abstract

Disaster are events that can occur at any time at any place, it bring a lot of destruction with it. A disaster can change the life of people in minutes. Manmade disasters are those which happen because of the negligence of human behaviour in hazardous industries. Manmade disaster have great impact on the humans, environment and even on animals. Manmade disaster can be oil spills, terrorism, waste disposal, forest fires etc. Manmade disaster needs to be properly tackled otherwise can create a big problem for the humans in present as well as in future. Manmade disasters can be mitigated by providing proper training and carefulness regarding handling the hazardous matter in the industries. The present paper is totally based on the secondary data such as: government reports, newspapers, books etc.

Keywords: Disaster, Manmade Disaster, Oil spills, Terrorism, Hazardous Material.

Introduction

Disaster is something which can come any time at any place. Disaster can be understood from that point that disaster has a great effect on the life of the people who have faced that disaster in their life at any time. Disaster can be defined as that a sudden, calamitous event that seriously disrupts the functioning of a community or society and causes human, material, and economic or environmental losses that exceed the community's or society's ability to cope using its own resources. Disaster has a huge impact on the life of the peoples as well the society itself as it brings the unwanted destruction at any time. Disasters not only bring the destruction but also it creates hurdles in the road of development of the country. Developing countries are facing more wraths of the disasters than the developed countries, as they have more technology to deal with the disasters than developing countries. Disaster brings a lot of destruction whether it is manmade disaster or natural disaster. But in the present time manmade disaster is getting worse than the natural disasters.



Disaster is mainly of three types:

1. Natural disaster
2. Technical disaster or chemical disaster
3. Manmade disaster

Natural disaster

These are those disasters which was caused by the environment itself humans have no role in them. The natural disaster can happen anytime without the knowledge of the humans like volcano eruption, earthquake, landslide and tornadoes etc. The natural disaster creates a massive destruction to the society as the peoples are not ready for that kind of destruction which happens suddenly. Natural disaster brings a lot of economic as well as social burden with him as loss of lives of people and also destruction in which people's loss their houses and other valuable things as well.

Technical disaster or chemical disaster

Disaster which are caused by natural events and manmade both plays a role in this technical kind of disasters. Disaster likes chemical releases, power outages and natural gas explosions etc. comes under the technical kind of disasters happening in the society. The technical disasters are more dangerous in nature as these kinds of disasters effect remains for quite long time then the other kind of disasters.

Manmade disaster

Manmade disaster are those kinds of disaster which have been the result of the human carelessness, callousness and sheer lack of foresight and planning, because of which a large number of innocent people lost their lives every year which can be saved. The cause of human made disaster can be intentional or unintentional because of which result in civilian casualties, loss of property, loss of basic services and loss of means of livelihood etc.some of the examples of manmade disasters in India are Bhopal gas tragedy happen in 1984.

Type of manmade disasters

1. **Hazardous Material Incidents:** Hazardous materials are those kinds of chemicals that if they are released in the environment can cause damage to the health and environment itself. Most of the chemical which are used in big industries, factories, in agriculture, medical research etc. can become hazardous if they are not used in proper way or in limited quantity. Many hazardous materials is transported by rail and even in oceans on ships because of some accidents these hazardous chemical damage the environment and create health problems for the humans.

- 2. Terrorism:** Terrorism is one of the biggest threat or manmade disaster in the world at present. No one in the world is immune from the terrorism threat, as terrorism creates a lot of damage to every country. Terrorism always does not create much damage but terrorism can result in more numbers of people losing their lives, which is more damaging to the society.
- 3. Waste disposal:**Waste disposal is one of the biggest problems for developing countries as the big industries settled in these countries through their waste chemical in open rivers and through them in open dump yard which create massive health problems in the country. Waste which was not disposed properly create a bigger problem as it can become a big epidemic and pollute the environment which affect not only humans but animals also.
- 4. Criminality:**Laws are made in the society for the peoples to behave in certain way so that people does not create problems for others, but some people have their behaviour or habits that they put other people in danger of injury or even to death. Criminality is also one of the manmade disasters which creates hurdles in the road of development and sometime even become more disastrous than any other bigger disaster happened in the society.
- 5. War:** War is something which destroys entire culture, country, economies and inflicted great pain on the humanities. War brings a lot of destruction as war is something which happens between a large numbers of groups of people or even between two or more countries, which involves not only physical force but also use of weapons which destructions to the society.
- 6. Fire:** Forest fires and mine fires are generally started by lightening but human's negligence is also one of the biggest reasons of this kind of fire accident happening every year. The forest fires can burn the forest areas to thousands of square kilometres. Fires not only damage that place but even product gases which are harmful for the environment because of which people suffer from breathing problems. Fires caused by any reason can be stopped by proper action on time but because of negligence these fires cause great damage to environment.

These are the some of the types of manmade disaster there are other types of manmade disaster also presents like chemical disasters, nuclear disasters happening because of the

carelessness of the humans. But these are some of the important ones which have been discussed above. Manmade disasters have certain impact on the society and people like:

Impacts of manmade disasters

- 1. Gas Leaks:** Gas leaks tend to be the more dangerous disasters in the environment, as gas leaks create problems not only in the present but its effects can be seen in the future also in the area where this gas leak happens. For example we have seen the Bhopal gas tragedy happen in Madhya Pradesh state in 1984, its effects can still be found in the area where this tragedy happened.
- 2. Air Pollution:** Air pollution is the biggest manmade disaster the whole world is facing in the present time. Air quality index in certain cities is getting worse day by day because of which the non-communicable diseases patient is increasing in the world. According to the World Health Organisation (W.H.O) air pollution is creating the biggest problems for the patients of non-communicable diseases which are becoming one of the biggest manmade disasters.
- 3. Oil Spills:** Oil spills are one of the manmade disasters happening in the world, which causes devastating effects on people, environment, animals and even on global socioeconomics. 2010 saw the worst and largest oil spill: the Deepwater Horizon Oil Spill in the Gulf of Mexico. Not only that there is a number of events of oil spills come in news every year. Oil spills cause the most destruction to the environment and pollute it to the extreme levels. Most of the oil spills happen in oceans because of which the ocean animals are facing the biggest effect of oil spills.
- 4. Nuclear Meltdown:** Nuclear energy is one of the renewable sources of energy used in the present time. It is clean and sustainable, but whenever because of any human mistake a meltdown happens in nuclear fuel has the most devastating and wide-reaching effect on environment and humans. One of the most famous nuclear meltdowns occurred in Chernobyl, Ukraine in 1986. One of the reactors in the power plant exploded, resulting in more fallout than the Hiroshima and Nagasaki atomic bombs combined. While 350,000 people were evacuated from the surrounding area, nearly 500,000 workers laboured to end the meltdown, 31 of which died during the attempt. The radiation of the nuclear meltdown remains at that area for quite a long time and its effect can be seen overtime as death occurs and birth defects in livestock in that area.

Prevention and mitigation:

The manmade disasters can be prevented and mitigated with following measure:

1. To mitigate disaster proper training is required for the personnel's working in the hazardous and chemical industries.
2. Properly maintaining and caring in the industries can bring the manmade disaster to its lowest levels.
3. Proper training and information should be provided to the people about first aid in case of any accidents.
4. Applying wet cloth over the mouth and nose in case of gas leakages minimizes the health hazards in case of gas leaks.
5. Remaining indoors in case of radioactive accidents.
6. Providing the people with proper medical care, in some cases throughout their life.
7. Providing adequate compensation to the affected people by way of money and employment.

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