

**ENVIRONMENTAL
POLLUTION**

OVERVIEW

❖ Definition of Pollution.

❖ Types of Pollution.

❖ Air Pollution.

❖ Water Pollution.

❖ Noise Pollution.

❖ Land Pollution.

❖ Radio Active Pollution.



DEFINITION OF POLLUTION

When Harmful Substances Contaminate the Environment, it is Called Pollution.

Pollution refers to the very bad condition of environment in terms of quantity and quality .



TYPES OF POLLUTION

There are Five types of Pollution:

- ❖ Air Pollution
- ❖ Water Pollution
- ❖ Noise Pollution
- ❖ Land Pollution
- ❖ Radio Active Pollution



AIR POLLUTION

What is Atmosphere

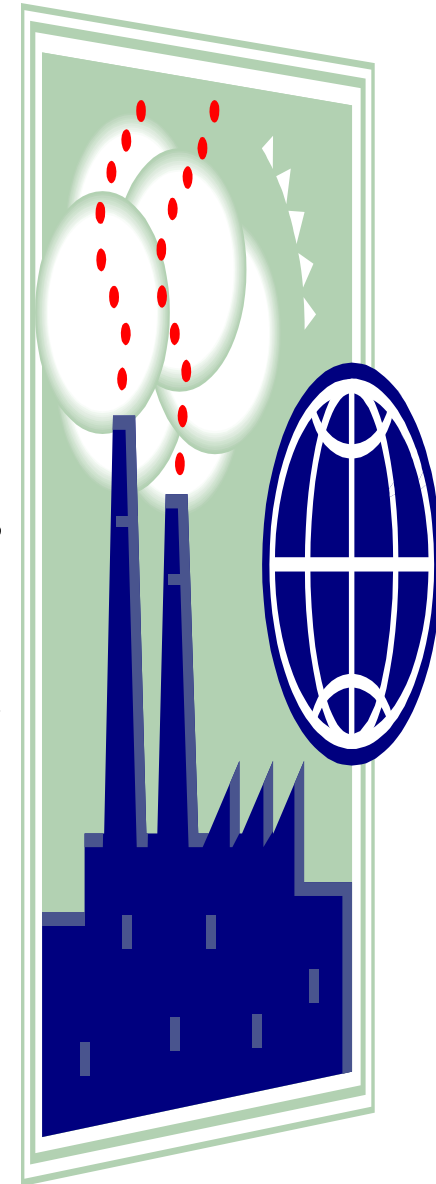
- ❖ Atmosphere is the life blanket of Earth.
- ❖ It is therefore essential that we know more about the atmosphere and the ways in which it is Polluted.
- ❖ Air is considered safe when it contains no harmful dust and gases.



Causes of Air Pollution

Major sources of Air Pollution:

- ❖ Industries.
- ❖ Automobiles and Domestic fuels.
- ❖ High Proportion of undesirable gases, such as sulphur dioxide and carbon monoxide.
- ❖ Dust (e.g. cement dust, foundry dust and windblown solid dust)
- ❖ Mist.
- ❖ Smoke.
- ❖ Carbon black.
- ❖ Aerosols.



Effects of Air Pollution

Air Pollution affects???

- ❖ Human health.
- ❖ Animals.
- ❖ Plants.
- ❖ The atmosphere as a whole.
- ❖ Global warming.
- ❖ Ozone depletion(Ozone hole).
- ❖ Acid Rain.
- ❖ Various respiratory illnesses.



How to Avoid Air Pollution

Yes, we can avoid pollution As Follows:

- ❖ Use natural Gases, like LPG (Liquefied Petroleum Gas) autos.
- ❖ Do not Burst Crackers.
- ❖ Use less Amount of Fuel for Vehicles.
- ❖ Avoid using and use electric stoves (bio gas).



WATER POLLUTION

Any physical (temperature, oxygen), chemical (mercury), or biological (disease, sewage) change to water that adversely affects its use by alive beings.

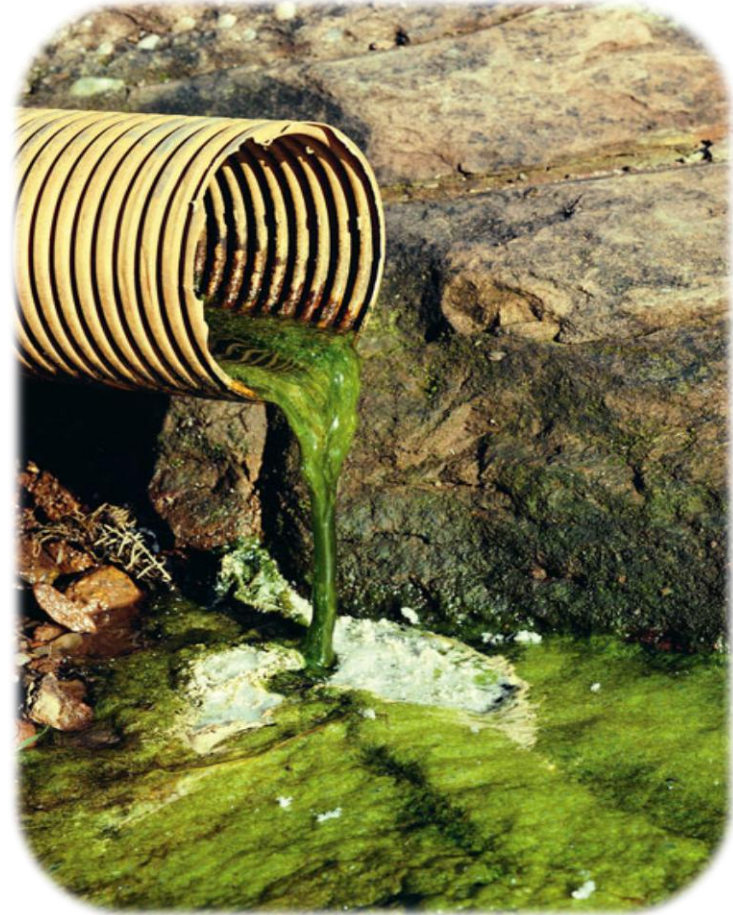


Causes of Water Pollution

- About 40% of Deaths worldwide are caused by Water Pollution.
- Water Pollution is Caused by organic and inorganic industrial wastes and effluents discharged into rivers.
- Noise also causes anxiety stress reaction and fright.



Water Pollution Pictures



Effects of Water Pollution



- Diseases like Cholera.
- Malaria.
- Typhoid (spread during the rainy season).
- Aquatic life gets destroyed.



How to Avoid Water Pollution

- Rivers should not be used for washing clothes or bathing animals in.
- Harvesting of Rainwater to meet water requirements.
- Dams & embankments must be created.
- The rivers must not be contaminated.
- In rivers the dead bodies shouldn't thrown.



NOISE POLLUTION

- ✓ Noise can be simply defined as unwanted sound.
- ✓ The sound is pleasant or not depends upon its loudness, duration, rhythm and the mood of the person.
- ✓ Noise pollution not only results in irritation and anger.

- ✓ Noise Levels: Decibels (dB)
 - Intensity
 - Frequency
 - Periods of exposure and
 - Duration



Causes of Noise Pollution

- ✓ Traffic Noise.
- ✓ Aircraft Noise.
- ✓ Noise from construction and civil engineering works.
- ✓ Noise from the Industries.
- ✓ Noise from other sources.



See what is this?

Picture shows: Noise Pollution



Effects of Noise Pollution

- ✓ Hearing Loss.
- ✓ High Blood Pressure.
- ✓ Stress.
- ✓ Sleep Disturbance.
- ✓ Colour Blindness.



How to Avoid Noise Pollution

- ✓ The Government should ensure the new machines that Should be noise proof.
- ✓ Airports must be away from residential area.
- ✓ The Sound horn symbol is to be in School Roads.
- ✓ Control noise at source by proper choice of equipment, design modification, mounting and proper layout.
- ✓ Isolation or use of baffles.
- ✓ Use of ear protection devices.



LAND POLLUTION

- One fourth of area is covered by land.
- Land is a earth which is occupied by people for shelter, occupation, etc...



Causes of Land Pollution

We can classify major sources in the following Categories:

- Mining, Erosion and quarrying.
- Household Garbage.
- Urbanization and Concentration of Population.
- Municipal Solid Waste.
- Industrial Waste and Hazardous Waste.
- Uncontrolled Land Treatment.
- Burning open dumps and forest fires.
- Deforestation.





Plastic



Chemical



Trash



Fertilization

Effects of Land Pollution

- The Land Cannot use to build houses.
- Man cannot be farming.
- Ground water will gets Affected.
- Death of the animals that inhabit the land.



Prevention of Land Pollution

- More and more land should be brought under farming.
- Trees should be planted everywhere.
- Waste matter should be disposed immediately.
- Avoid drilling the Land for more underground water.
- Avoid using more fertilizers and Pesticides.
- Integrated Solid Waste Management.
- Good agricultural practices.
- Remediation of polluted soils.
- Prevention of erosion and silting.
- Containment of hazardous waste and waste water treatment using land treatment techniques.

3R Principle:

✓ Reduce

✓ Reuse

✓ Recycle

RADIO ACTIVE POLLUTION

- Despite the Advantage of nuclear as a clean energy, the big concern is the resulted from nuclear reaction, which is a form of pollution called Radio activity.
- Radiation (Laser-Rays) will from Radioactive Pollution.



Causes of Radioactive Pollution

- Nuclear power plants(Ex: Neyveli, Kalpakkam).
- Nuclear Weapons(Ex: Missiles).
- Disposal of Nuclear Waste.
- Uranium Mining.



Effects of Radioactive Pollution

- The Diseases include blood in cough.
- Ulcer.
- Swelling of bone joints.
- Cancer.
- Lung Cancer.
- Skin Cancer.
- Bone Cancer.
- Eye Problems.



How to Prevent of Radioactive Pollution

- Avoid Constructing Nuclear Power Plants.
- Avoid Using Nuclear Weapon.
- Have Proper Treatment for Nuclear Waste.
- Avoid mining for Uranium to a minimal.



REFERENCES

- Science books.
- www.google.com
- <http://en.wikipedia.org/wiki/AirPollution>
- www.freefoto.com



RESPECT THE EARTH



Adaptation by Felipe Rodríguez Torres

www.felipe-torres.tk