

MANUAL

FOR

ENVIRONMENTAL AWARENESS

For School children so that they can appreciate and show genuine concern towards their environment

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&

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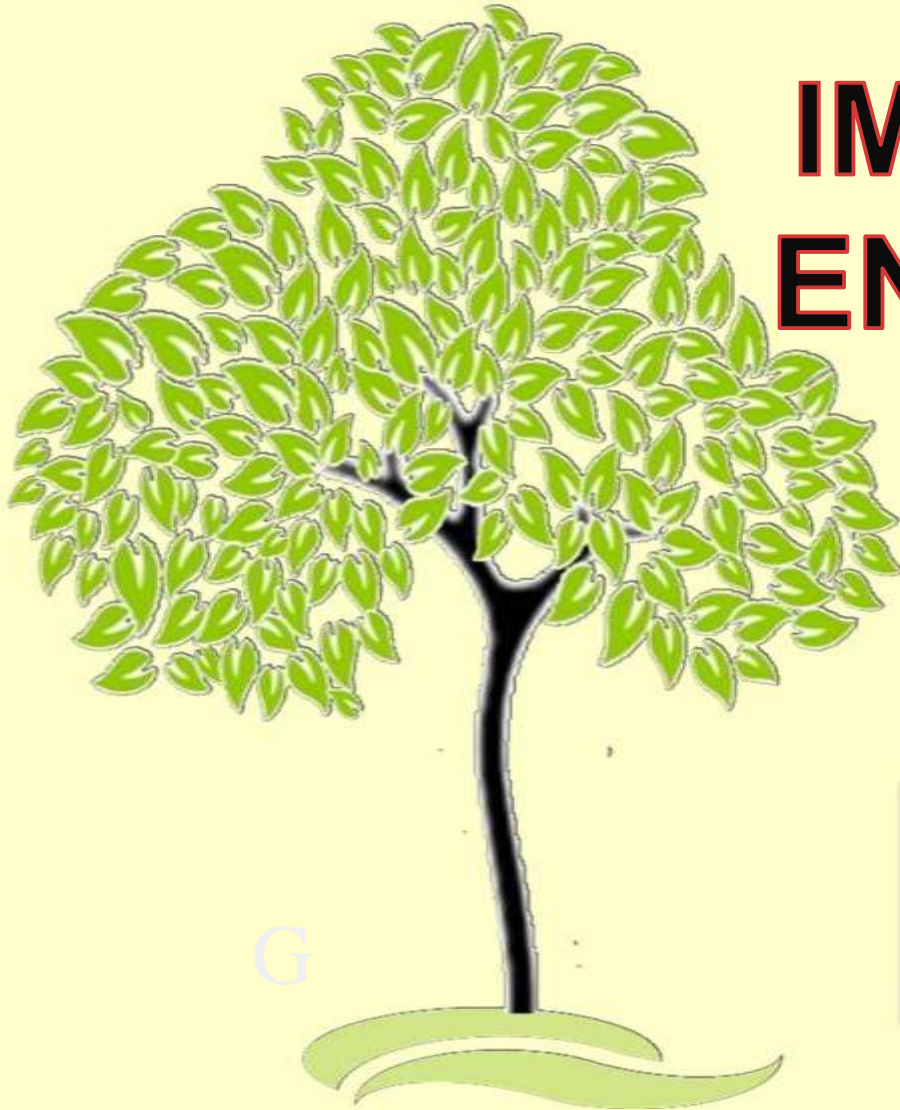
How to site this Wani.R.S & Hassan T (Manual for environmental awareness for school children so that they can appreciate and show genuine concern towards the environment available on the website of Directorate of Distance Education, University of Kashmir URL: <http://ddeku.edu.in/Main/ViewPage.aspx?Page=56f423ae-0e6e-41f4-a6b6-9a8c44e9bc1d>)

TREES ARE THE LUNGS OF THE EARTH

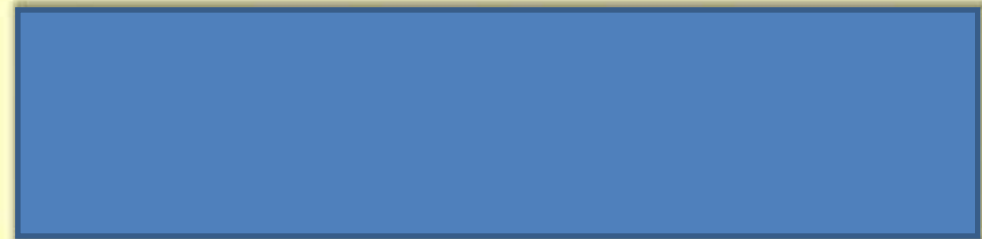





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IMPORTANCE OF ENVIRONMENTAL EDUCATION.



WHAT IS ENVIRONMENT EDUCATION

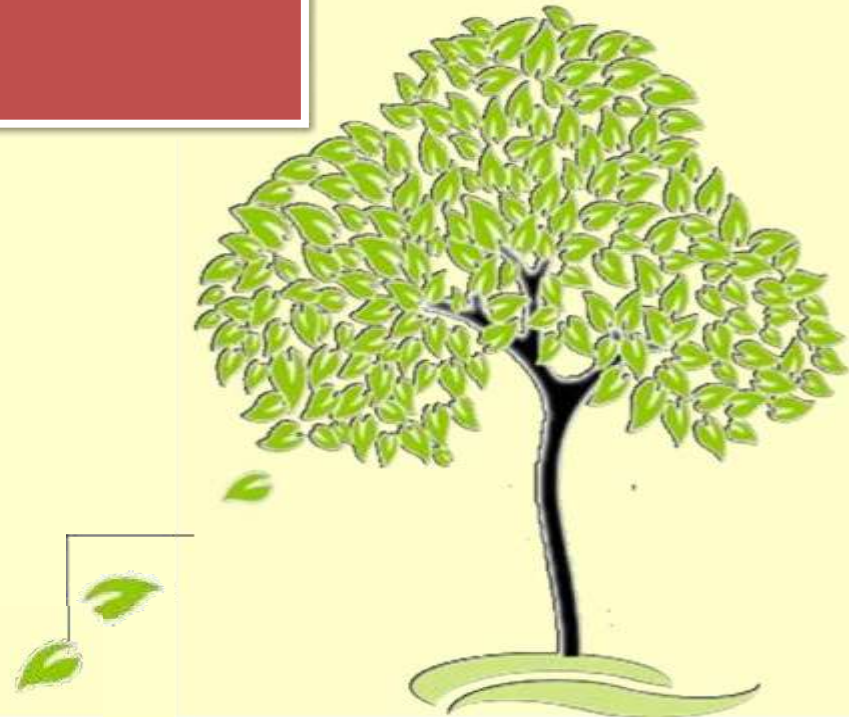


Is a process by which people develop awareness, concern and knowledge of the environment and learn to use this understanding to preserve, conserve and utilize the environment in a sustainable manner for the benefit of present and future generations.

It entails the will to take personal initiatives and social participation to achieve sustainability.



It is intended for all types of learners, students, out-of-school youth, community leaders, policy makers and the general public to develop appropriate environmental-related skills.





Goals, Objectives and Aims of Environmental Education



The main goal is to develop concern and awareness among world population about the total environment and its associated problems.

The goals of environmental education are:

1. To improve the quality of environment
2. To create awareness among the people on environmental problems and conversations
3. To create an atmosphere so that people participate in decision-making and develop the capabilities to evaluate the developmental programs.



Awareness

- ◆ Awareness-acquire an awareness of and sensitivity to the total environment and its allied problems.



Knowledge

- ◆ Knowledge-gain a variety of experiences and acquire a basic understanding of the environment and its associated problems.



Attitudes

- ◆ **Attitudes** – acquire a set of values and feeling of concern for the environment and the motivation for actively participating in environmental improvement and protection.



Skills

◆ Skills – acquire skills for identifying and solving environmental problems.



Participation

◆ **Participation** - to provide social groups and individuals with an opportunity to be actively involved at all levels working towards the resolution of environmental problems.

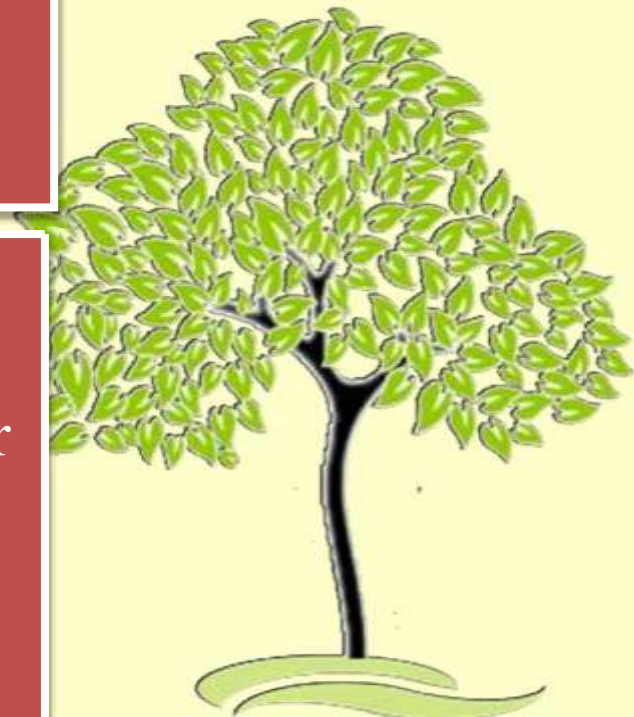


Aims of Environmental Education



◆ To provide different groups of people as well as graduates in a variety of professional fields with the knowledge needed to develop a sense of responsibility towards the environment and the rational utilization of its riches.

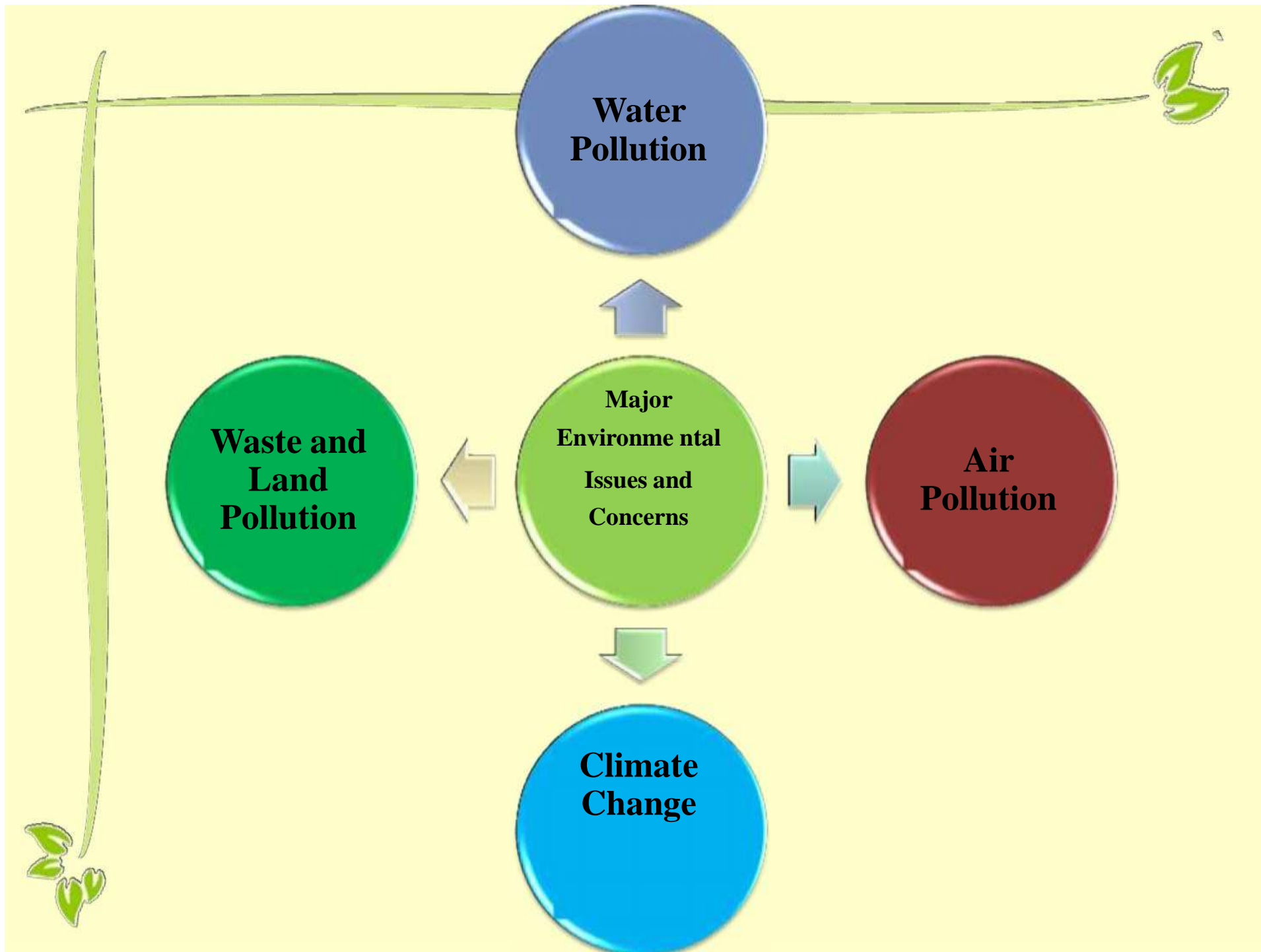
◆ To make use of these knowledge and skills to preserve, conserve and utilize the environment in a sustainable manner for the benefit of present and future generations.



Importance of Environmental Education

- ◆ Increases student engagement in science.
- ◆ Improves student achievement in core subject areas.
- ◆ Provides critical tools for a 21st century workforce
- ◆ Helps address “nature deficit disorder”





Environmental Issues and Concerns

Causes

Effects

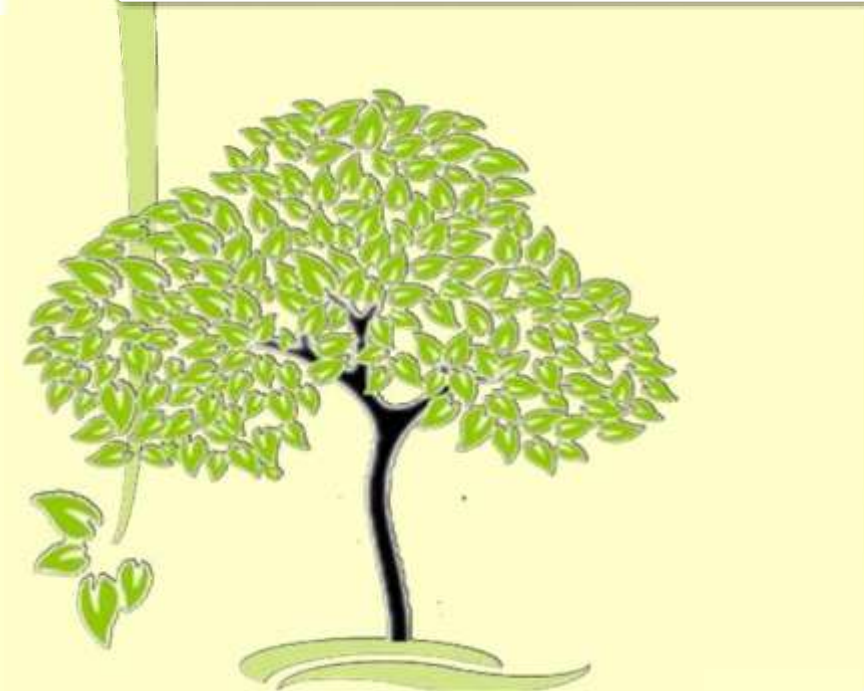
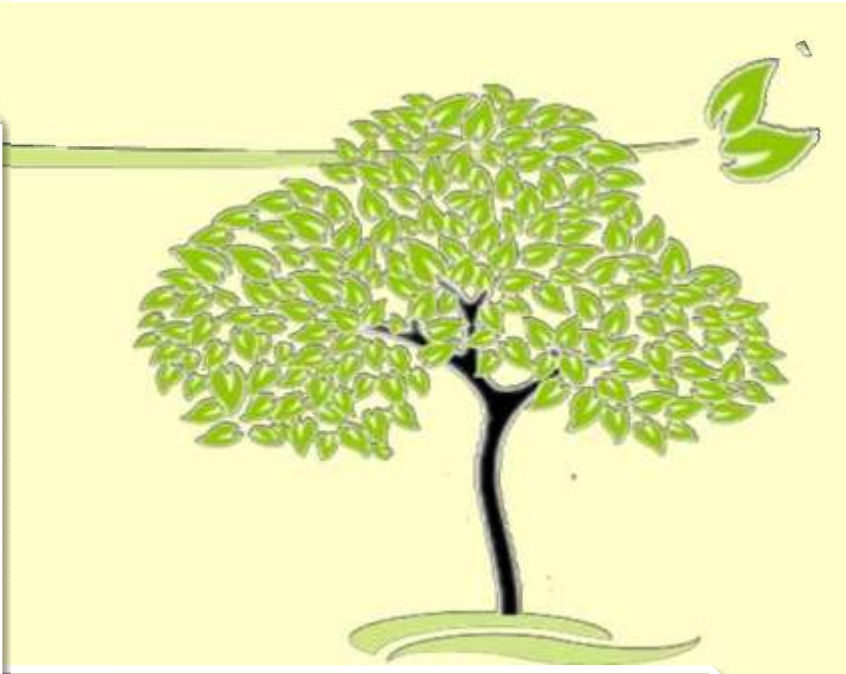
Solutions

Water Pollution

- ❖ Dumping industrial waste into the nearby sources of water.
- ❖ Improper disposal of human and animal waste.
- ❖ Fertilizers, pesticides used in agriculture.
- ❖ Pathogens, sediments and chemical pollutants.

- Damage to the food chain.
- Diseases can be spread through polluted water.
- Acid rain
- Alteration of the over all chemistry of water.
- Contaminated marine food sources.
- Altered water temperatures which can kill the marine life.

- ✓ Pick up waste material and throw them in the trash can.
- ✓ Weeding should be practiced instead of using herbicides to kill unwanted weeds.
- ✓ Encourage to use of organic fertilizers rather than inorganic fertilizers.



Environmental Issues and Concerns

Causes

Effects

Solutions

Air Pollution

- ❖ Burning of fossil fuel.
- ❖ Increased level of carbon dioxide in the air.
- ❖ Car exhausts and other emissions (SMOG)
- ❖ Increased road and air traffic.
- ❖ Chlorofluorocarbons (CFCs) use in refrigerants and aerosol propellants.

- Acid rain
- Health problems to human beings i.e. respiratory disorders, cancer, etc.
- Global warming

- ✓ Encourage your family to use the bus, train or bike when commuting. If we all do this, there will be less cars on road and less fumes.
- ✓ Recycle and re-use things.
- ✓ Use energy (light, water, boiler, kettle and fire woods) wisely.



Environmental Issues and Concerns

Causes

Effects

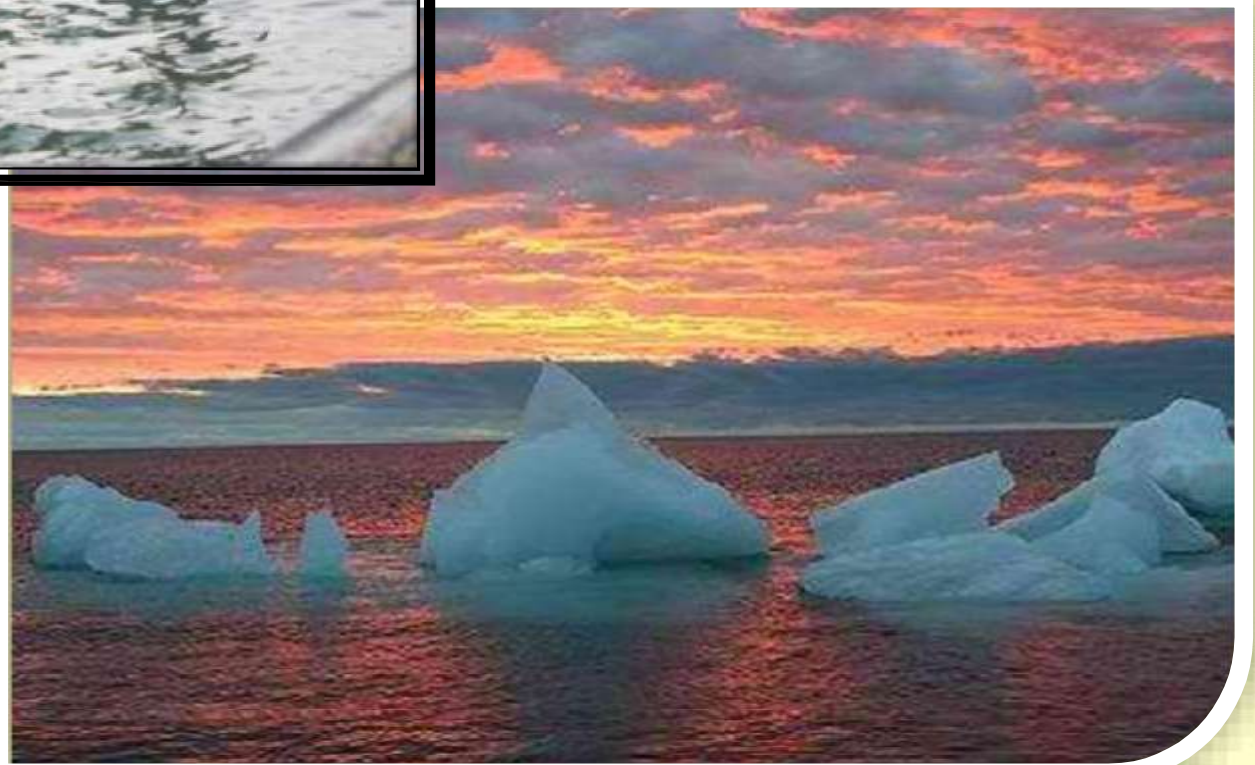
Solutions

Climate Change

- ❖ Global warming due to “greenhouse effect”
- ❖ Increased world population
- ❖ Burning of fossil fuels

- Heat waves
- Rising temperature
- Worsened air pollution
- Increased of SMOG
- Wildfire smoke and pollution
- Drought, floods
- Spread of epidemic diseases
- Worsened waterborne, illnesses, infectious diseases.

- ✓ Driving less
- ✓ Renewable energy including energy from wind, solar, wave, biofuels, etc., substitutes directly for fossil fuels and eliminates CO₂ emissions entirely.
- ✓ Energy conservation
- ✓ **Plant more trees**



Environmental Principles

Nature knows best

All forms of life are equally important

Everything is interconnected

Everything changes

Everything must go somewhere

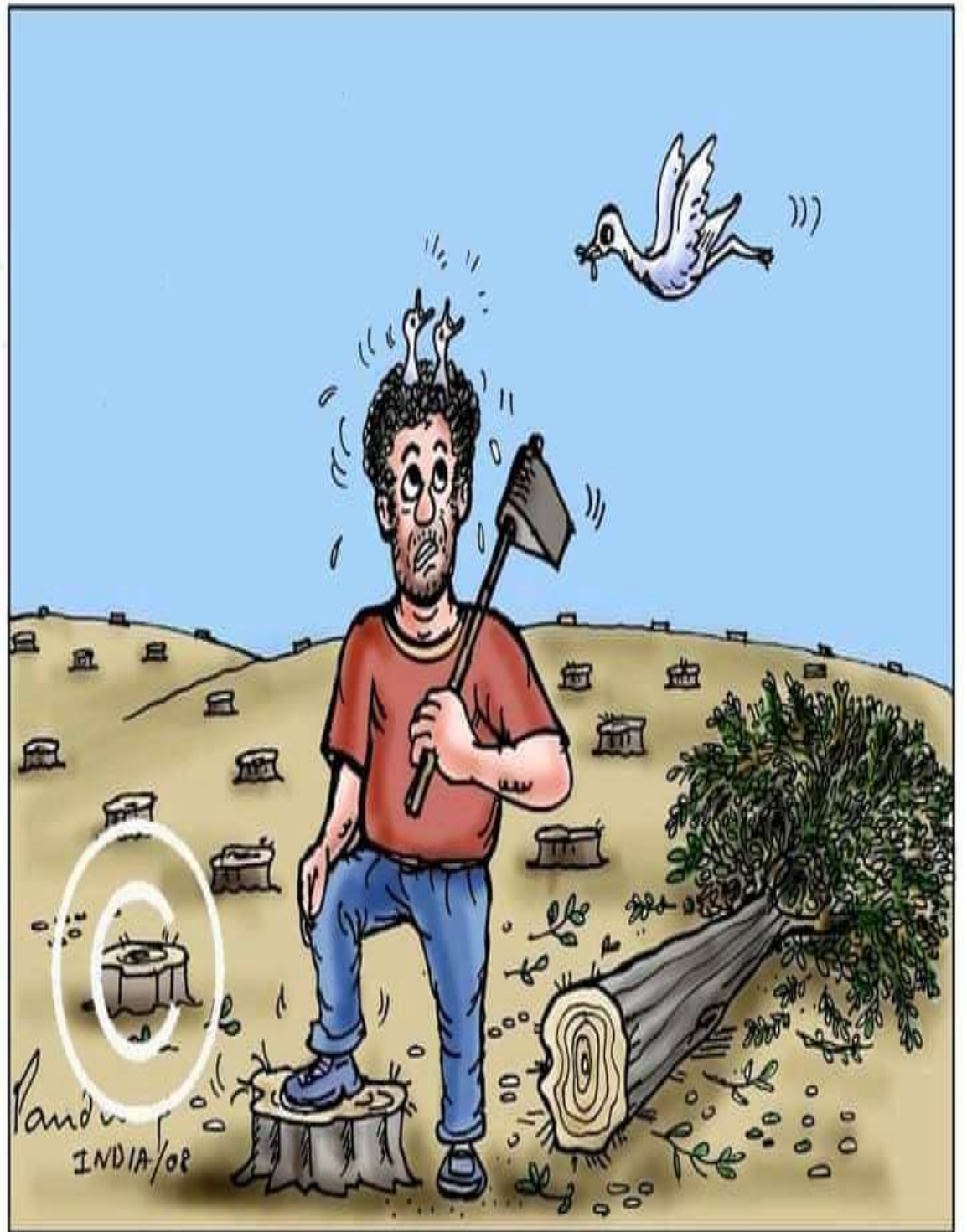
Ours is a finite earth

Nature is beautiful and we are steward of God's creation

TODAY'S EARTH CONDITION

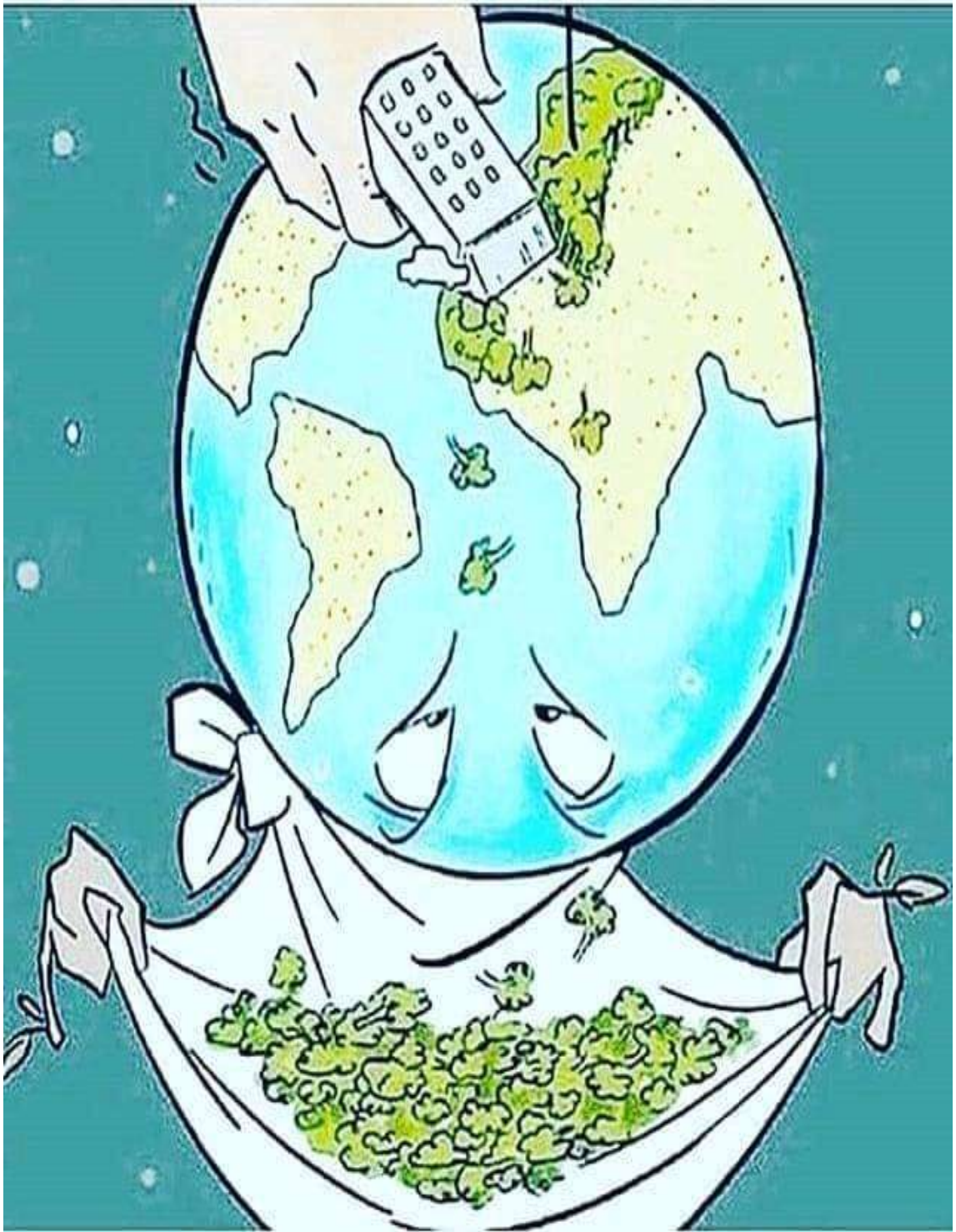
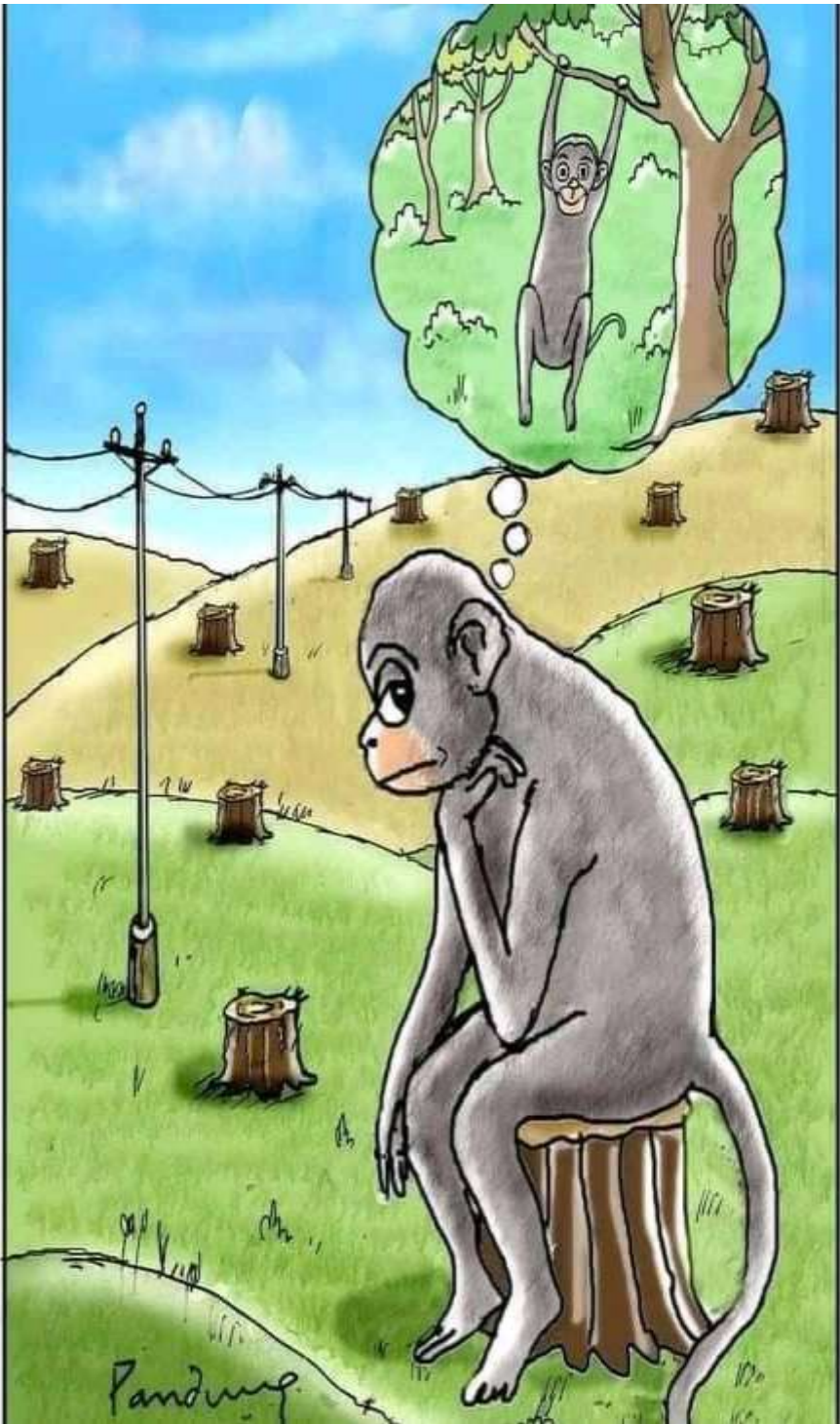


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Jahi



**Water Bodies has become
a global garbage dump..** 😞

Please Stop It !!



Birds need you this summer!

Many birds die in summer due to lack of water.
Please do them a favour. Place water pots for
thirsty birds on terrace, compound wall and
balconies.

Spread the message.







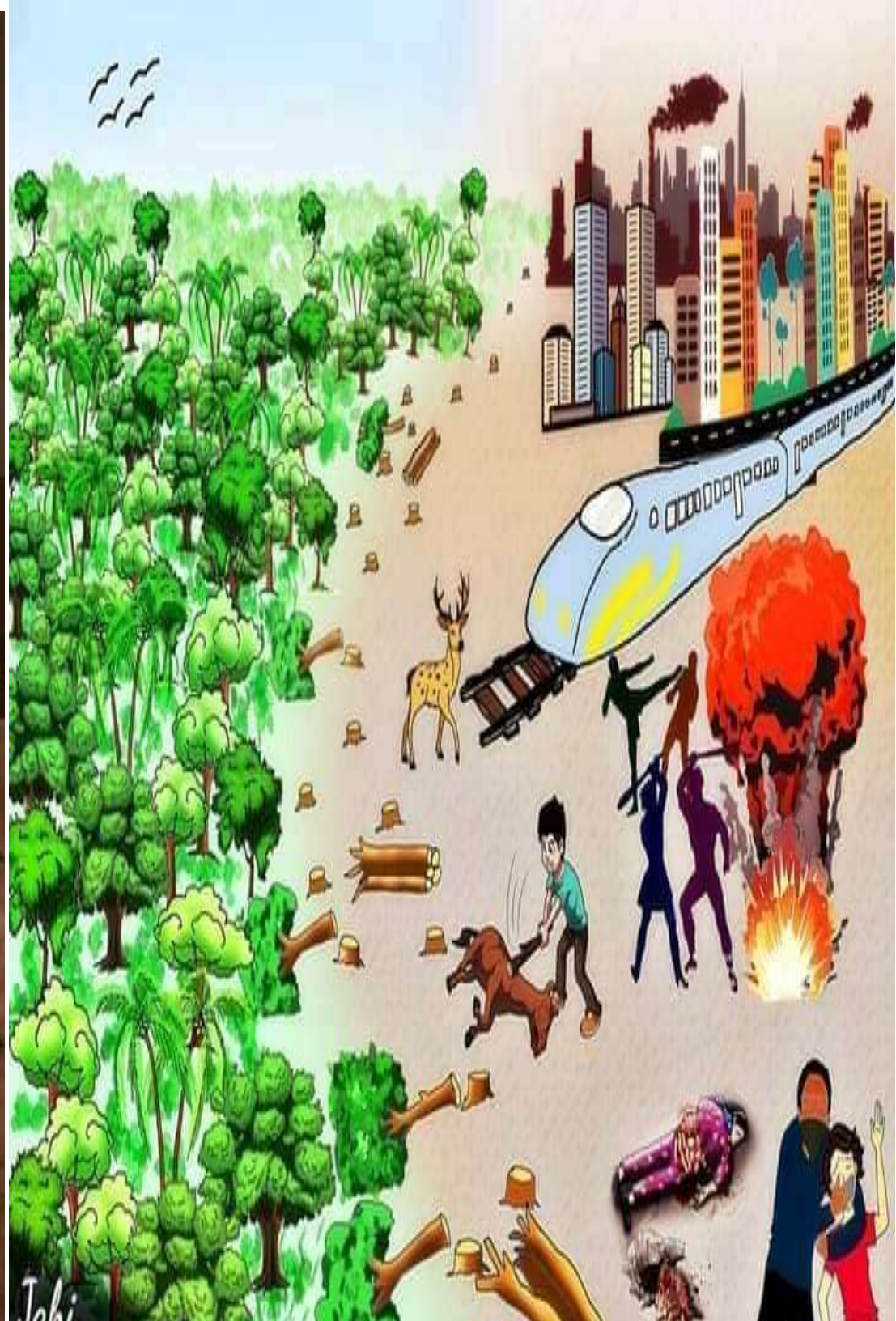
Avoid these

Using these



If you want to hear the
Sound of the bird, don't
buy a cage.

PLANT A TREE.





Donate Red

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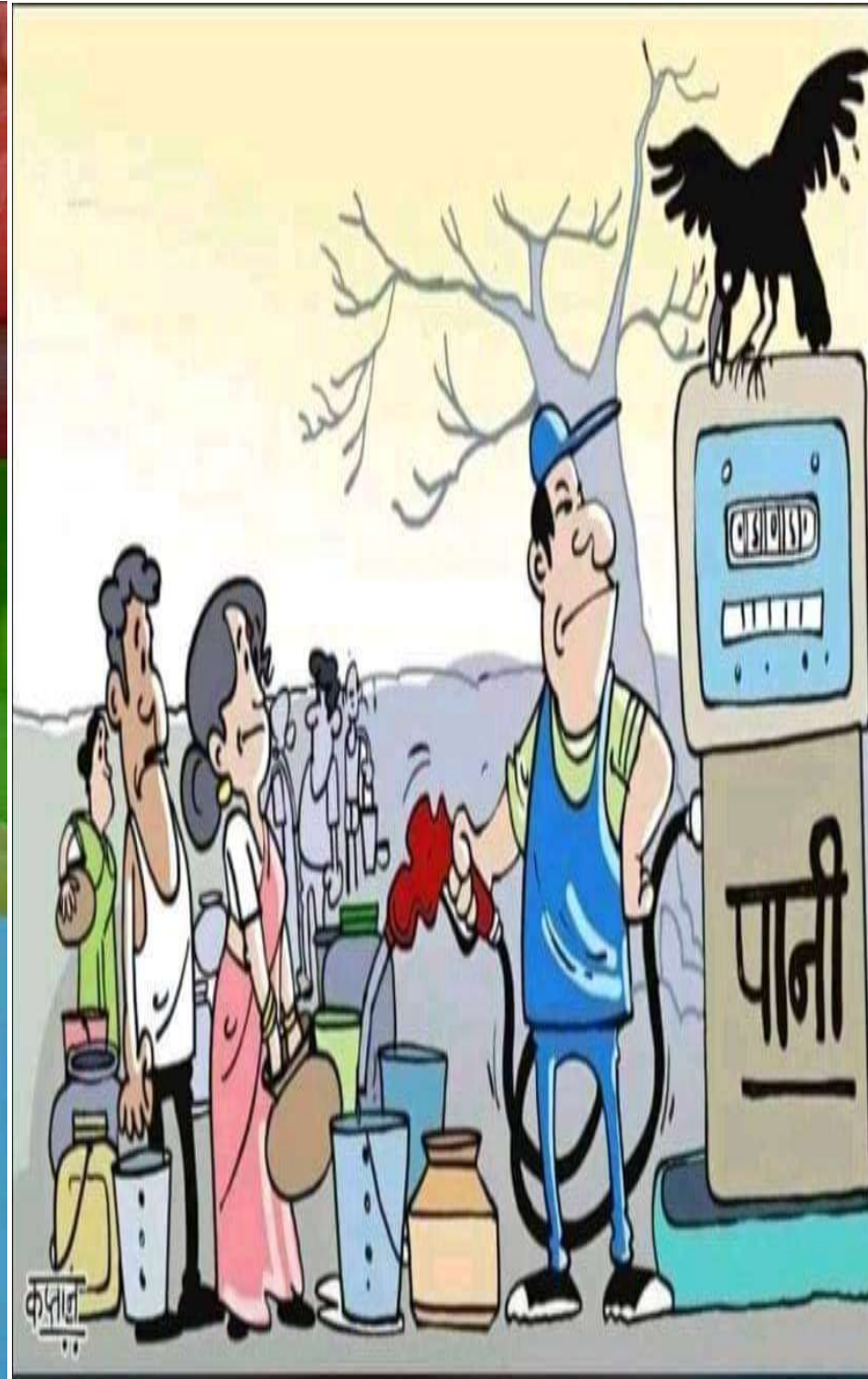


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Spread Green



Save Blue



- **Case Study**
- **Awareness to B.Ed Students From Sumbal Area for conservation of Ahansar lake falling in their catchment area**

Ahansar Lake Sumbal : Neglected, Encroached and Polluted



Ahansar Lake: Neglected, Encroached and Polluted

- Ahansar Lake is one of the fresh water rural lakes of Kashmir. It is situated at Sumbal, Sonawari (District, Bandipora). The lake is under heavy ecological stress due to increasing land use encroachment. Various agricultural activities are carried out on the lake shores that has been encroached. Agricultural fields are surrounded by number of orchards. Leaching of pesticides, weedicides, fertilizers, etc. have enriched the water body and eutrophication of the lake is in progress. The lake is under serious threat of encroachments and each year lake shores are filled up and reclaimed for orchard and vegetable plantation, etc. Recent survey conducted by investigators indicate that the lake is fast turning into environmental nuisance owing to immense eutrophication (ageing of water body with high Biological Oxygen demand (BOD)). The lake is likely to meet the same fate as that of other valley lakes. Sewage from human habitations is directly poured into the Lake, thereby affecting its aquatic life. Run-offs from agricultural fields and untreated domestic sewage are the major source of plant nutrients in the Lake, thus rapidly disturbing its ecological balance. Solid waste is directly flushed into the Lake. Excessive vegetation helps in the depletion of oxygen that kills the fish and the underwater life. Peripheral springs contributing to the Lake are used by locals for bathing, washing utensils and clothes; there is gradual decrease in the water depth which is attributed to silt and garbage deposits in the Lake.

Awareness to B.Ed Students From Sumbal Area for conservation of Ahansar lake falling in their catchment area

- Present study reveals that the Lake is showing persistent rise in pollution level as shown by the higher concentration of nitrogen and phosphorus that has obviously sprouted the macrophytic vegetation. During late autumn and winters most of the peripheral area dries up exposing marginal areas, giving a chance to the locals for conversion of the water into the land for paddy and other commercial vegetable cultivation. Our ancestors kept all these lakes preserved for us. They were God fearing and eco-friendly, and though uneducated, they took care and preserved them. They were of the view that these natural gifts are for the posterity. They lived a simple life. Their bathroom and kitchen wastes were never directly dumped into these precious lakes. Now things have changed due to westernization . Encroachments have started on war footing basis and these lakes have shrunk. All types of wastes through drains and effluents are flowing into them. People living around these water bodies are literate but uneducated as compared to their ancestors. They are selfish and lack aesthetic sense. Weed infestation has posed number of problems particularly to fishermen and their children. Most of them suffer from number of water borne diseases. Due to increase in water nutrients noxious weeds like Azolla are growing in thickets. No conservation plan has so far been formulated for their restoration. Strict actions should be taken against influential land grabbers. Demarcation of the lake and regular monitoring of water quality, biodiversity changes should be done. Drudging for removal of excess aquatic weeds and noxious plants should be undertaken periodically.