

## Environmental Management of water

Intro. → water, Air and Soil are three natural resources that we cannot live without. Soil provides nutrients, water, oxygen & heat to natural Land areas. Soil support an ecosystem plays an important role in Land management decisions. This includes chemical, physical and biological processes affecting flora, fauna, water, air, ~~water~~. 2. Soil is - relation to environmental pollution.

The environment is defined as the sum total of all condition and influence that affected the development & life of an organism. The material cycles and energy flows in natural systems, generates a self correcting homeostasis with no outside control.

The environmental management is proper resource use & resource management. Environmental management is interdisciplinary approach to resource conservation & recycling & recycling.

The central theme of environmental management is the "the reduction or minimisation of the impact of human activities on the environment". The cornerstones is any

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environmental strategy are —

- i/ Environmental planning
- ii/ environmental status evaluation
- iii/ environmental impact ~~assessment~~ <sup>assessment</sup>
- iv/ environmental legislation <sup>and</sup> ~~and~~ administration.

To-day, the whole world particular the developing countries face a near crisis situation, both ~~and~~ economic and environmental.

There are two major threat to the environment—  
(i) possible nuclear war  
(ii) unprecedented demographic pressure due to population explosion.

The net-result is spread of desertification, soil maladies, floods and drought, ~~the~~ urban congestion, extinction of species & pollution of Land, water & air.

An industry's environmental performance is increasing the essential part of their national commitment to environmental protection for adoption of green path. Each industry should have the following components in their organisation.

- 1/ organisational Profile! — It includes the size of the organisation like revenue generation, number of employees, major ~~the~~ line of activity, nature of environmental.



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with regard to water, energy, forests and land etc.

(6) Adoption of audit Programmes and Environmental response Programme

The Industry should adopt internal/external audit programmes & should have provision for environmental emergency response ~~proper~~ programme with regard to meeting emergency commitment etc.

(7) Environmental Compliance to regulatory agencies.

There should be transparency with regard to implementation of environmental Laws and regulations & co-ordinating with regulatory agencies.

(8) R & D Cell. — Each Industry should have research & development activities, training programmes, acquiring environmentally preferable technologies and interacting with people of the area. & specially with regard to health, education and environment.

(9) Excellence recognition! — Each industry should have a programme to reward their employees for excellence in their work with regard to environmental

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Practices, resource Conservation and R & D activities.

- (10) Publication :- Each industry should have a publication cell. This should highlight Periodically the activities of industry ~~eco~~ specially their achievements, quality of their products, nature of technology they use & their commitment to environmental compliance.

In Indian, the following are the environmental problems where priority action is needed.

- (1) Population stabilisation
- (2) Integrated Land use planning
- (3) Healthy cropland and grassland.
- (4) Woodland & revegetation of marginal lands.
- (5) Conservation of biological diversity
- (6) Control of water & air pollution
- (7) Development of non-polluting renewable energy system.
- (8) Recycling of wastes & residues
- (9) Human settlements
- (10) Environmental education & awareness
- (11) updating environmental Law, &
- (12) New dimensions to national security.



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There are some water management strategies which include development of new ground water or surface water supplies, conservation, source demand management, expansion of the use of existing supplies such as improved operation or conveying water from one location to another or less conventional methods like weather modification, brush control and water resource management is the activity of planning, developing, distributing & managing the optimum use of water resources.

wikipedia

Water is essential for our survival.

The field of water resources management will have to continue to adapt to the current & future issues facing the allocation of water. It has been observed that due to climatic change will lead to situations that have never been encountered. As a result alternative management strategies should be set back to in the allocation of water resources.

Water resources management : Planning has regard to all the competing demands for water & seek to allocate water on an equitable basis to satisfy all use & demands.

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one of the biggest concerns for our water based resources is the future is the sustainability of the current and future water resource allocation. As water becomes more scarce, the importance of how it is managed.

At present only 0.08 % of all the world's fresh water is exploited by mankind. Increasing demand for sanitation, drinking, manufacturing, leisure and agriculture.

Much effort in water resource management is directed at optimizing the use of water and in minimizing the environmental impact of water use on the natural environment. The observation of water as an integrated part of the ecosystem is based on integrated water resource management, where the quantity & quality of the ecosystem help to determine the nature of the natural resource.

As a limited resource, water supply poses a challenge. This fact is assumed by the ~~poor~~ Project DESAFIO (the acronym for Democratization of water and Sanitation Governance by means of Socio-Technical innovations). This project the DESAFIO engineers worked on a water treatment system run with solar power & filters which provides safe water to a very poor community in state of Minas Gerais.



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For water as a resource, this is particularly difficult since sources of water can cross many National boundaries & the uses of water include many financial value to manage in conventional terms.

As the carrying capacity of the Earth increases greatly due to ~~technical~~ technological advances, Urbanization in modern times. Modern time. Regarding the food production, and World Bank targets agricultural food production & water resource management increasing as global issue & is a matter of debate. The author of the book 'Out of Water: From abundance to scarcity & How to solve the world's water problem', which laid down a six point plan for solving the world's water problems. These are:-

- i/ Improve data related to water
- ii/ Treasure the environment,
- iii/ Reform water governance
- iv/ Revitalize agricultural water use
- v/ Manage urban & industrial demand
- vi/ Empower the poor and women in water resource management.

To avoid a global water crisis, farmers will have to strive to increase productivity to meet growing demands for food, while industry & cities find ways to use water more efficiently.

So, ~~water use~~ use of water & resources become a problem to developing countries & to solve by using modern technique.