

## Environmental management of water

Intd. → 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~~. & soil is - relation to environmental pollution.

The environment is defined as the sum total of all condition and influences that affected the development & life of organisms. 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> administration.

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

There are two major threats 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 indicates the size of the organisation like revenue generation, number of employees, major ~~the~~ line of activity, nature of environmental



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Impact of the organisations operation.

(2) Environmental policy - Each industry should have its own environmental policy & policy should indicate the scope & applicability, contains 2 goals

(3) Environmental management - Each industry should adopt a management system. It should indicate the management structure like staff, organisational relationship activities, training programmes and achievements.

(4) Environmental release - The amount of effluents and waste released to the environment may be considered as an indicator of industry's impact on environment. The industry should provide baseline data with regard to emissions to the atmosphere, discharges to water, hazardous waste, waste discharge to land. Objective, targets and programmes and measures taken to abate pollution at the source. Instead of the end of the pipeline.

(5) Organisational commitment - The organisation is committed to the conservation & recycling of materials

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with regard to water, energy, forest 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 programme with regard to meeting energy commitment etc.

(7) Environmental Compliance to regulatory agencies

There should be transparency with regard to implementation of environmental Laws and regulations & interacting 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 & specially their achievements, quality of their products, nature of technology they use & their commitment to environmental compliance.

In India, 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.