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Research Paper Economics

A water pollution of metropolitan cities in India

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ABSTRACT

One of the working groups of the national commission for integrated water resources development plan on the perspective of water requirements also deliberated regarding the norms for urban and rural water supply. In their view, a variety of factors affect water use in rural and urban areas. These include population size of habitant, economic status, commercial and manufacturing activities. A host of water factors like dimate, quality of life technology, costs conservation needs etc also influence these requirements. Desirable and feasible norms can be established boy reviewing post performance and modifying these on the basis.

Keywords :

Introduction

Water pollution is that pollution which caused by human activities which can be harmful to organisms and plants living in these water bodies. Most water pollution is the result of the introduction into water by humans of heat, micro-organisms and various substances that have negative effects on ecosystems, health and water based activities. It effects underground and surface fresh water, the oceans and ram water. Water is typically referred to as polluted when it is impaired by anthropogenic contaminants and and either does not support a human use, like serving as drinking water and undergoes a marked shifted in its ability to support its constituent biotic communities, such as fish. Natural phenomena such as volcanoes, algae blooms, storms and earthquakes also cause major changes in water quality and ecological status of water. Water pollution has many causes and characteristics.

Water pollution is major problem in the global context. It has been suggested that it is the leading world-wide cause of deaths and diseases, and and that it accounts for the deals of more than 14,000 people daily. In addition to the acute problems of water pollution problems as well. In most recent national report on water quality in the united states, 45% of assessed stream miles, 47% of assensed lake acres and 32% of assessed bay and estuarine square mile were classified as polluted. The statistics show an alarming trend for India rapid growth, urbanization and industrialization will lead to a greater demand for an increasingly smaller supply of water resources in the area. India accounts for 2.45% of land area and 4% of water resources of the world but represents 16% of the world population, with the present population growth-rate (1.9% per year) the population is expected to cross the 1.5 billion mark by 2050. The rapid growth of population has exerted the portable water demand, which requires exploration of raw water sources, developing treatment and distribution systems.

Objectives:

1. To study an increase in developmental activities such as urbanization and industrialization lead to generation of more and more waste water.

2. To study the sustainable development and management of water.

3. To explore growth of population and consequent increase in water demand.

To study the water pollution of metropolitan cities in India.

Unplanned growth of the city activities dwells population thereby some areas of the city experiences water scarcity. However, primarily the following four reasons can be attributed to this water scarcity. Cities have to reach cut for sources that area far away and very expensive to develop and convey.

Sr. No.	Name of cities	Raw water sources	Distances (Km)
1	Ahmedbad	River Sabarmati (Dharoi Dam)	150
2	Bangalore	River Cauvery (K.R. Sagar)	100
3	Chennai	River Krishna (Telyga Ganga)	400
4	Delhi	River Bhagirathi (Teri dam)	250
		Renuka Dam	280
		Kishau Dam	300
5	Hyderabad	River Krishna (Nagar Junsagar)	160
6	Mumbai	Bahasta Pam	54

The technology to effectively utilize rain and river water through advanced ground water recharging technique can be implemented at the locations. Where, per capita annual availability of water is much greater than national per capita annual availability of water. In India has as many as 12 major rivers whose total catchment area is 252.8 million hectare of the major rivers; the Ganga-Brahmaputra-Meghna system is the biggest with the catchment area of about 110 mha which is more than 43% of the catchment area of all the major river in the country. One of the working groups of the national commission for integrated water resources envelopment plan on the perspective of water requirements also deliberated regarding the norms for urban and rural water supply. These include population size of habitant, economic status, commercial and manufacturing activities.

It has been said that the next wars will be fought over water. Increasing competition for dwindling water resources will continue to pose a greater threat to national and international security.

More than 400 million people livelong the Gangas River. An estimated 2,00,000 persons ritually bathe daily in the river, which is considered holy by Hindus. In the Hindu religion it is

said to how from the lotus feet of Vishnu or the hair of Shiva. The spiritual and religious significance could be compared to what the Nile river meant to the ancient Egyptians. Even in mega cities namely Mumbai, Calcutta, Delhi and Chennai, wherein about two third of the total waste water of 23 metrocities is generated, the waste management is highly unsatisfactory despite the huge infrastructure and paraphernalized due to many socio-political and managerial problems, of the waste water generated in class one cities, 12 metropolitan cities accounted for about 65%.

Conclusion :

Groundwater pollution can be described as degrading of water quality for any usage sources of pollution are grouped in to two as natural pollution and man-made pollution dissolution of gypsum and anhydrite can cause natural pollution. Groundwater in that formation has large amount of dissolved solids and is not suitable for domestic, agricultural and industrial purpose. in some regions, fresh and salty water layers can be together. Good salty water layers can be mixed. The technology to effectively utilize rain and river water through advanced ground water recharging technique is a system which club together nearly every engineering aspect related to it and utilize then in the best possible way to serve the humanity. The efficient and effective performance of an agency depends on a clear relationship between management activities such as panning organization selection and training of staff, coordination, direction and control of the function of the agency. They useful information obtained from monitoring is severely limited unless and administrative and legal framework unless and administrative and legal framework exits at local regional and national level.

Advantages :

1) Store fresh water derived from rain and snow melt, for future use.

2) Utilize the low cost technique for long lasting solution supplying pure water.

3) Use useful technique in case of flood situations and tsunami situations the water sources get polluted due to entry of flood water in to them, and other reasons.

4) We need to the objectives of the assessment were not properly defined.

5) Saves water and improves soil moisture.

6) An idea solution of water problem in areas having inadequate water resources.

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