

Water Conservation: Methods and Suggestions

Dr. Dadarao Sanduji Mhaske
Asst. Professor, Dept of Environmental Studies
Patuck- Gala College of Commerce and Management, Santacruz (E), Mumbai.

Water is an essential factor for each and every living thing. Without water the concept of all living thing can not be possible. Therefore the balance use of water and conservation of water is an important for human beings. There are several methods of water conservations for future of human and all living things. The present paper has reveals the some important methods of water conservations.

Key Words: Water, conservation, methods, traditional

Introduction

Water conservation is a big thing, but every little bit helps, so don't think that what you do doesn't matter. A whole lot of people doing a little bit adds up to a whole lot. We must all make changes in our lifestyles that will change the course of our water and its quality (Puja Mondal).

Present paper has represents the importance and the methods of water conservations for the future of all living things.

Objectives

The specific objectives of the present paper is

- To state the importance of water
- To understand the methods of water conservations.

Importance of Water

Water is an essential in our body for the surviving since the water in our bodies is continually being used or lost, it needs to be continually replaced, and the best fluid to replace it with is water.

Water is involved in every bodily function from digestion and circulation through to the control of body temperature and the excretion of waste products. The water in our bodies is continually being used or lost from the body. Some is used or absorbed by the functions it performs and some is lost through sweat, urine and feces (goodhabitsforlife.act.gov.au).

Water Conservations

Water conservation is the preservation, control, and management of water resources.

Water conservation means using less water or recycling used water so that it can be used again.

Water conservation refers to the preservation, control and development of water resources, both surface and groundwater, and prevention of pollution.

Water conservation is the practice of using water efficiency to reduce unnecessary water usage.

Water conservation is refers to reducing the usage of water and recycling of waste water for different purposes such as cleaning, manufacturing, and agricultural irrigation.

Methods of Water Conservations

There are several methods for the conservation of water, some methods are traditional and some are innovative in India.

In ancient times, houses in parts of western Rajasthan were built so that each had a rooftop water harvesting system. Rainwater from these rooftops was directed into underground tanks. This system can be seen even today in all the forts, palaces and houses of the region (edugreen.teri.res.in).

Traditional Methods

- **Katta:** - Katta is a temporary structure made by binding mud and loose stones available locally.
- **Sand Bores:** - Sand bores provide a safe alternative for farm irrigation without affecting groundwater. This technique uses the concept of extracting water retained by sand particles.
- **Johads:** - These water soak pits called as Madakas in Karnataka, Pemghara in Odisha and Johads in Rajasthan, are one of the oldest systems used to conserve and recharge ground water. Constructed on an area with naturally high elevation on three sides, soil is excavated to create a storage area and used to create a wall on fourth side to hold water. Johads collect monsoon water, which slowly seeps in to recharge groundwater and maintain soil moisture (Shikha Shah).
- **Bamboo Drip Irrigation:** - A network of channels made by bamboo pipes of various diameters (to control flow), allows downward flow of water by gravity. This method innovated by tribes of north eastern states

New Methods

- **Rain Water Harvesting:** - It is a technique or strategy for the collection of rainwater and storing it in the right way for future use. The water can be collected from various surfaces and platforms and stored for later use. In most cases, the water is usually collected from rooftops and other hard surfaces. Rainwater harvesting is considered as a very reliable way to conserve water.
- **Ferro-Cement Tanks:** - These tanks requiring materials like sand, cement, mild steel bar and galvanized iron wire mesh, can be easily constructed by semi skilled labors.
- **Water Wheel:** - It is a round wheel shaped storage tanker with an attached handle on top to provide painless mobility. It was innovating by a US based social entrepreneur, Cynthia Koenig under an organization called Wells. It is popular in the villages of
- **Rajasthan, Gujarat and Madhya Pradesh.** This is also affordable price near about Rs 2000.

- Joy Pumps: - This innovation was designed to mitigate water scarcity problems in villages with no clean surface water source, no electricity and poor monetary capacity.

Suggestions for Water Conservation

- It is necessary to Protection of Water from Pollution
- Should be use Rational Use of Groundwater
- To control the growth of population
- To Renovate the Traditional Water Sources
- Use the modern irrigation methods
- It is an essential to increase forest cover
- Change and innovate the cropping pattern
- Conserving the water industries
- Reuse the urban waste water
- Do not throw away water that has been used for washing vegetables, rice or dals use it to water plants or to clean the floors, etc

Conclusion

Overall from the above analysis and interpretation researcher conclude the importance of water is very essential for human body, some parts of human body absorbing water and some parts of body removing it in everyday life, it means that conservation of water is very significance for our survival. Water conservation method we can develop both traditional as well as modern, in future if you want conserve the water according to different methods water should be clean to drink, as we know the percentage of fresh water is very less as compared to saline water so we can use minimum water for our day to day activity and once water used that can be reuse again for other purposes, the importance of water is very essential for every one so water should conserve very carefully for the current days and for future generation.

References

- Puja Mandol, "Water Conservation: Definition and Strategies for Water Conservation", Article retrieved from <http://www.yourarticlelibrary.com>
- <http://www.biologydiscussion.com>
- <http://edugreen.teri.res.in>
- <http://gosmartbricks.com>
- <https://goodhabitsforlife.act.gov.au>
- Shikha Shah, "Traditional Water Conservation Methods in India", Published Article on <http://www.ecoideaz.com>
- Water Conservation the waterpage.com
- Water Conservation, Glossary of Statistical Terms, OECD, 25 Sept. 2001, stats.oecd.org
- Water Conservation, Bartleby Writing, Published Essay 10 Feb 2013, P.1, www.bartleby.com
- www.safeopedia.com