

Water Crisis Major Problem in Marathwada Region

Jyotsna A Saonere

Govt.Polytechnic,Amravati M.S, India

Abstract

About 70% of the Earth's surface is covered with water and 3% of it is actually freshwater that is fit for human consumption. Around two-thirds of that is tucked in frozen glaciers and unavailable for our use. *India is second largest population country in the World. All living thing are dependent on water. Depletion of water level is increase day day due to number of reason like deforesting, population, depletion of ozone layer, cement concreting of road, urbanisation, concreting of housing, industrial and human waste, with large agricultural output, excess water consumption for food production depletes the overall water table. water is the basic need of all living thing without water there is no life on the Earth. Now a days Water problem is becoming worse in most of the part of India specially in Marathwada region in Maharashtra. Specially Latur has been faced seriously water shortage problem due to the Manjargaon dam completely ran out of stock. Due to this the administration then turned to three other barrages Dongargaon, Bandarwadi and Lower Terna located in the district. Due to this the people in Marathwada region has been facing many problem, Every citizen is forced to buy water for Rs 1,000 almost every day as the water quota provided by the civic body is not sufficient to meet needs, Besides, around 150 small and big hospitals in Latur had been hit hard with two major hospitals, a private and a government hospital, had to stop all surgeries because of lack of water. In future every country will have to face this water crisis problem to avoid this we have collectively take the efforts to save, conserve and harvest the water. ve our earth we have to take common effort to save wilde life on the earth by increasing ground water level. Water crisis produces many hazardous effect on our living life.*

Introduction-

“Water scarcity is the lack of sufficient available water resources to meet the demands of water usage within a region. It already affects every continent and around 2.8 billion people around the world at least one month out of every year. More than 1.2 billion people lack access to clean drinking water.”

Water scarcity or water shortage is the major problem for all developing country it would create the obstacle in the development of the Country. In Marathwada region of Maharashtra in India it becomes worse specially Latur was facing extreme water crisis problem. Latur's water shortage problem escalated after the Manjargaon dam completely ran out of stock. “Every citizen is forced to buy water for Rs 1,000 almost every day as the water quota provided by the civic body was not sufficient to meet needs,” Besides, around 150 small and big hospitals in Latur had been hit hard with two major hospitals, a private and a government hospital, had to stop all surgeries because of lack of water. 20

litre water was being provided per person. “This means a family of five gets 100 litre water every day, residents get water nearly after a week which is 200 litres per family. Hence there was mass migration from Latur to fulfill their daily water need.



Fig 1. Manjara Dam



Fig 2. Water shortage at Latur

The Latur district administration on it imposed prohibitory orders under Section 144 in and around water filling points fearing law and order problem. administration said it was a routine order and the issue was being blown out of proportion even as it claimed that efforts were underway on war-footing to tackle the extreme water shortage situation in the district. Such prohibitory order was the first instance in Maharashtra



Fig 3.Water supply to Latur by tank from other region

In Latur town, the government sends a tanker every 20-30 days, and locals have to depend on private operators to procure water. **Causes of water crisis-** Water shortage is due to physical water scarcity and economic water scarcity. Physical water scarcity refers to a situation where natural water resources are unable to meet a region's demand and economic water scarcity is a result of poor water management resources.

Causes of water scarcity in Marathwada region is due to-

- **Insufficient rainfall-**Miles of fertile, black soil farms are dried, and the crisis has pierced hamlets such as Bhatangli, Bhatkheda and Sonavati. With two more months of summer round the corner, where the mercury can soar above 40 degree celsius, Latur and the neighbouring districts of Beed and Osmanabad, in the Marathwada region, were facing one of the worst droughts in four decades. Marathwada is largely an agricultural belt in Maharashtra, one of the most industrialised states of the country.As rains turned deceptive for a third year in a row, the crisis aggravated. In 2015, the state received 59.4 per cent deficient rainfall while the national shortfall was 14 per cent compared to the normal.The drought in the region is so bad that stored water in the dams of Marathwada are as

low as five-six per cent; last year, it was 18 per cent at this time. The groundwater level in the region has dipped at an alarming rate. Most of the rivers and reservoirs in Latur district are dry. Manjara dam, which is the source of water in Beed, Osmanabad and Latur districts, had dried completely.

- **Crop pattern**-“Sugarcane is the main culprit. Indiscriminate water has been lifted for cultivating sugarcane,” says Pradeep Purandare, retired associate professor, Water and Land Management Institute, Aurangabad, and former expert member, Marathwada Development Board. Sugarcane and Banana are the main crop in that region which required highest irrigation.

Sugar mills have mushroomed in the past four years as well. In the drought-prone region of Marathwada, around 20 new industries have come up. “This should not have been allowed in a drought-prone area,” In 1999, a commission headed by water management expert Madhav Chitale had proposed there should not be any sugar factories in drought-prone areas and exiting factories should be relocated. “While the sugar industry is one of the reasons for the drought, from a farmer’s point of view, sugarcane is a hardy cash crop. So, farmers prefer this crop when water is available,”

- **Insufficient use of water for agriculture**.- Use of water for farming is more because India is agricultural production country among the top growers of agricultural produce in the world and therefore the consumption of water for irrigation is amongst the highest. Traditional techniques which are using for irrigation causes maximum water loss due to evaporation, drainage, percolation, water conveyance, and excess use of groundwater. As more areas come under traditional irrigation techniques, the stress for water available for other purposes will continue. The solution lies in extensive use of micro-irrigation techniques such as drip and sprinkler irrigation.
- **Natural calamities**-Due to short rain fall it is insufficient to fulfill the water demand in that particular area which decrease ground water level
- **Sewage and wastewater drainage into traditional water bodies**. Government intervention at the source is urgently required if this problem is to be tackled Without access to clean water, there is no way to clean food, dishes, or people
- **Overuse of Water**: Overuse of water is a huge issue that a lot of people are dealing with. Water may be overused on people, clothing, bathing, washing vehicles, animals, land, or any other number of things. It may also be used for recreational activities without any care about the effects that it may have on the world around them.
- **Pollution of Water**: Water pollution is the main problem when there is not good sewage system. Pollution can be anything from oil, chemicals, and to fecal matter. No matter what it is, it makes a lot of issues for the people who may need to use it. Release of chemicals and effluents into rivers, streams and ponds. Strict monitoring and implementation of laws by the government, NGOs and social activists is strictly required.
- **Deforestation**-Cutting of tree leads to decrease the ground water level and responsible for shortage of water.

- **Population**-Due to increase population land area covered for the purpose of housing of people which leads to decrease ground water level
- **Urbanisation**-Due to urbanisation rural area converted to urban area due to concretisation of road there is depletion of ground water level
- **Conflict:** If there is conflict over an area of land, it may be difficult to access the water that is located there.
- **Distance:** Number of areas that deal with water scarcity because they aren't close to anywhere that has water. Areas that are considered to be desert, or areas that are secluded, may not have somewhere that the people can get water effectively.
- **Drought:** A drought is define as an area which is not getting enough rainfall to be able to sustain the life of people who is residing there. Droughts are common all over the world, and there is little that can be done to prevent such things from happening.
- **Governmental Access.** In some countries, specifically those with dictatorships, the use of water may be strictly controlled by those in power, causing a scarcity for those who may be located in those areas of the world. These governments use it as a source of control over those that they are governing, which can be a huge problem.
- There is a lack of necessary resources to meet current needs
- Apart from the lack of resources, there is difficulty in obtaining access to fresh water
- Due to the lack of resources and access to water, further deterioration of existing resources occurs
- Due to dry weather conditions, further depletion occurs
- Lack of on-time de-silting operations in large water bodies that can enhance water storage capacity during monsoon. It is surprising that the governments at state levels has not taken this up on priority as an annual practice. This act alone can significantly add to the water storage levels.
- Lack of efficient water management and distribution of water between urban consumers, the agriculture sector and industry. The government needs to enhance its investment in technology and include all stakeholders at the planning level to ensure optimization of existing resources.

Effects of Water Scarcity

- **Households** **face** **financial** **crisis**
Chababai Hivrare, a farm labourer, used to work from 11 am to 6 pm. After toiling in the fields, she used to earn Rs 100 per day. As the monsoons turned

deceptive, kharif crops were destroyed. As a result, she has no work.

Like Bhagotmale, Hirvale who hails from Palaswadi also walks for about three km in search of water. "This year, it has become even more difficult," says Sunita Shinde, who is with Hirvale. The women are not aware of various programmes and benefits the government has announced.

- **Lack of Access to Drinking Water:** Due to shortage of water or water scarcity the biggest problem is that people are not able to get fresh, clean drinking water. The human body can only go so long without water, and a lack of drinking water can result in a number of other problems, which has been discussed below.
- **Shortage of Grain-** It is essential to fulfill the basic need of people that is Food, Clothes and shelter. Due to shortage of water there is decrease in the agricultural yield which leads to shortage of food for the people.
- **Hunger:** If there is shortage of water that affects agriculture of that area which decreases crop yield, then people are going to face shortage of food than the demand. Animals will also die, which will result in a lack of meat as well. Water scarcity, in short, causes starvation to occur en masse for both people and animals that are located in that area.
- **Diseases:** Polluted water is the main source of many diseases. If you don't have clean water access, then you will be more likely to get diseases from the water that you do have. Whether you're drinking the water or using it for bathing, those diseases will get into the body and, in a number of cases, the people carrying those diseases will pass away.
- **Sanitation Issues:** Sanitation issue is the main problem due to shortage of water. When people are not given access to proper sanitation, disease ends up becoming much more of an issue than it would have been otherwise. It also causes mental health issues, including depression and anxiety.
- **Poverty:** People who are dealing with water scarcity are often stuck in poverty as well. These people are not able to get the resources that they need in order to be able to thrive, and instead are just barely surviving through these difficult times.

Solutions for Water Scarcity

- **Education:** Educate the people about the water conservation, how to use the water, how to save the water. By educating those who are not dealing with water scarcity, they can be in a position to help and conserve the water for the future. Those who are dealing with it can get educated on how they can prevent the problem from becoming even worse in the future.
- **Recycle Water:** Recycling of water is the best option to conserve the water and to get rid of water shortage. Water that is used for household purposes and water

used in offices, industry can be recycled. New technologies used for water recycling.

- **Advance Technology Related to Water Conservation:** There has been a lot of work in the world of water conservation, but there is also a lot that needs to be done in order to ensure that the rest of the world Can conserve the water
- **Improve Practices Related to Farming:**Water loss due to improper irrigation lost a lots of water to save this and conserve used modern technique of irrigation and farming like deep irrigation and sprinkles. Farming and irrigation are often a huge culprit when it comes to water scarcity. Because of that, we need to improve practices so that we don't use as much water and those who are using water are using it to its fullest potential. Technology also needs to advance in this manner.
- **Improve Sewage Systems:** Clean drinking water starts with a good sewage system. Without proper sanitation, the water in an area becomes ridden with disease and any number of other problems. By improving the sewage systems in these areas, we can prevent water scarcity from becoming any worse.
- **Support Clean Water Initiatives:** There are organizations located all over the world that are looking to bring clean water to areas that don't have it. Consider donating to these organizations, either with your time, your skills, or your finances (whichever you can afford to give to them).
- **Water Conservation-** Adopt new techniques for water conservation, water conservation is the best solution for water shortage in future
- **Water harvesting-** Water harvesting is the best solution to get ride from water shortage. Everyone's house water harvesting arrangement must be there. To increase ground water level we should take efforts to increase it, due concretization of road and cement house ground water level goes down, We have to make arrangement at our house to drain rainwater of our house roof by pipeline into the ground so that we can increase the ground level or while constructing the house we have to make such arrangement at our house, Government should make compulsion to people for such arrangement.
- **Plantation of tree-** Plantation of tree is better way to conserve the ground water level and to increase the rainfall .Everyone has to take the effort to save the nature that's why adopt to plant and save the tree as the nature is gift of God for us we have to protect and conserve it.

Conclusion-Day by day the water shortage or water scarcity is the major problem for all living life on the Earth and it would become worse in the future if we will not take care of it. Water is the basic need of all life on the Earth if we could not conserve it properly then it will create many problems. Govt. has to take initiative to implement water conservation and water harvesting scheme. we have to take much more effort to save water so that we would not face such extreme water crisis in future like that Latur. we take some efforts like recycling of water, to save water at home by using proper tap and pipeline without leakage of tap, tree plantation, water harvesting, water conservation and by making arrangement of on the roof of house that rain water

from the roof directly goes by pipe into the ground so that under ground water level would be increase.

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