

# WATER MANAGEMENT



## Big Idea- synopsis

This idea is all based on water management ... As we all know we just let the used water for bathing or washing hands into drainage but as it goes for long time in drainage... It stinks and smells bad , instead of doing this , we can use this water for watering plants , washing vehicles and for construction purposes... This saves a lot of water , we can use this type of water for doing these jobs , instead of using freshwater

The second idea is all about drinking purposes... In rural areas the people don't have much money or filtered water to drink .. Many people always don't get water when they need it or can't afford one by paying money.... But if we take this one step , everyone can get filtered water... We can set a tank up with filtering membranes to purify rain water... In this tank the rain water enters the tank and purifies this water and people can get this water by using pots and get it through a tap... If we set it once... It will work for long period of time and quench more people's thirst

## Domains/focus areas it would address

This idea of using waste water can be used/focused in urban areas .. In towns people waste a lot of water while showering or using a washing machine , and they are the ones who does more construction and uses cars

The idea of drinking rain water can be covered in rural areas... People are so poor in villages and can't afford a bottle of water... And the way of pumping water makes everyone very tired .... So, this idea can be very useful for people and efficient for them... These people work very hard and hard, this water can quench the thirst of all the hard workers...Hence this would work very well in rural areas

## Scientific principles for the basis of the big idea

This idea works on the basis of arranging the drainage tubes right next to the garden , at the end of the tube it could be like a filter , that it could filter the unwanted chemicals and put it away through another tube ... (The attached image shows it) , this water goes through tube and gets filtered at the end and this water falls into the tank and we can do a setup with the concept of drip irrigation , half of the water can be used for watering plants and others can be used for other purposes like for construction , washing cars... This helps people

~ To avoid wastage of fresh water

~ Unwanted wastage of water

~ Avoid stinks and smell of storing the water in drainage

The drinking rain water idea works on the basis of rain water harvesting... We could set up a dam with purifiers in it like a reverse osmosis setup with membranes ... This dam just collects the rain water and gets purified inside with the help of the membranes , and then we can setup a tap , this could be useful , when we need water we can release the tap and get the drinking water... And we never waste such precious rain water and it can be used in an efficient way !

My doing this

~ We can quench thirst of more people

~ Reduces wastage of money

~ Reduces spread of disease because most of the rain water , creates puddles and makes it difficult for our lives

Execution plan

This can be executed by changing the format of tubes in our houses and by attaching a filter at the end of the tube , by the help of plumbers... This could be a new model and can be used in all the new houses and it can be done frequently in future... We can also collect this water in a dam and use it for washing cars and roads... We should make people understand how precious is water and how even the waste used water can be used again ... This could help a lot for the future...

For the second idea , we can use a specific neat place in a rural area where there is no dust and any harms ... Then we can set up a dam over there for storing the water . Then we can set up a purifier system inside the dam (like membranes of RO system) , so people can drink the pure water instead of working very hard by pumping water . And the dam can be set like the rain water can flow into the dam and it gets purified , right there we can set up a tap so that we can open it and get purified rain water... People in the rural areas can use this water efficiently for drinking purpose, this means a lot to this people and it can quench the thirst of hundreds of people ... Government can keep this dam in many places of the villages, hence it helps people to quench their thirst

Description of how the idea would change your community in the future

This idea can save most of the water , that is being wasted and it can give a better improvement of using water and cleanliness , it avoids more of the ditch and smell... It can automatically water our plants and we can store it and can use the process of drip irrigation to irrigate the crops , if we had an unavoidable work or trip to some other places... We can avoid using fresh water for washing cars and we can use the water that is going to be wasted for washing cars and roads

This idea can quench the thirst of many poor people... People who are ill and old need not pump the water from the ground and make themselves more tired... they can get fresh water whenever they want and they can actually drink fresh water