

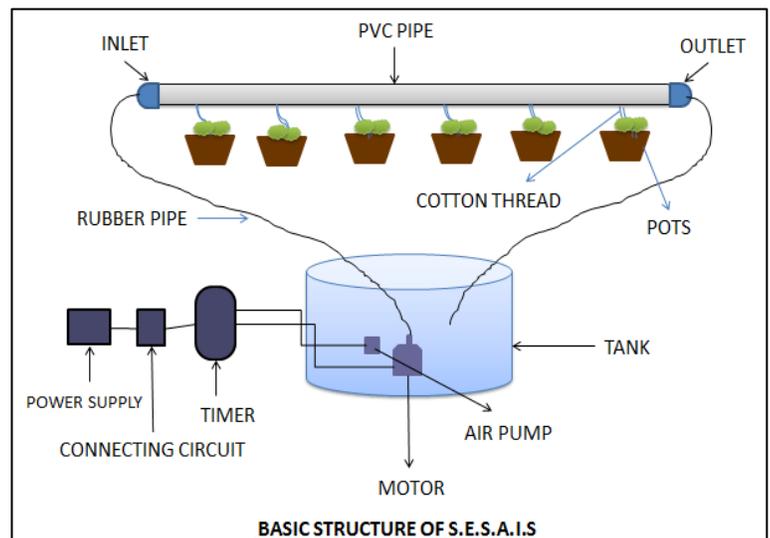
# Super-Efficient Self Automated Irrigation System

Our innovation **S.E.S.A.I.S** is an irrigation system based on the principle of **drip irrigation**. It was thought for people fond of **planting/gardening but don't get time because of their busy schedule** and also for those who gives the reason of shortage of space in their homes. Even if you go out you don't have to worry about your **plants as they will water themselves**. So plant lovers it's your time to do what you love.

## BASIC STRUCTURE

The basic structure is a simple PVC structure i.e. a PVC pipe turned into the channel that will carry water. The shape will depend on the space where the system will be kept. The pipe's one end will act as inlet and the other as outlet and both of them will be connected to a tank or container (2 liters atleast) through rubber pipes. The other components required are as given below:-

- Cotton thread
- A submersible motor
- Air pump
- A programmable timer
- Connecting circuit



## WORKING

The water which will enter the pipe from inlet will be directed towards the roots of the plants through cotton thread and rest of the water will be sent back to the container via outlet. The working of the other components is given below:-

- **AIR PUMP**:-keeps water in container fresh for longer time.
- **TIMER**:-will start or stop motor and will make system automatic.
- **CONNECTING CIRCUIT**:-will help you water your plants from anywhere in the world using your cellphone.

## DETAILED WORKING OF COMPONENTS

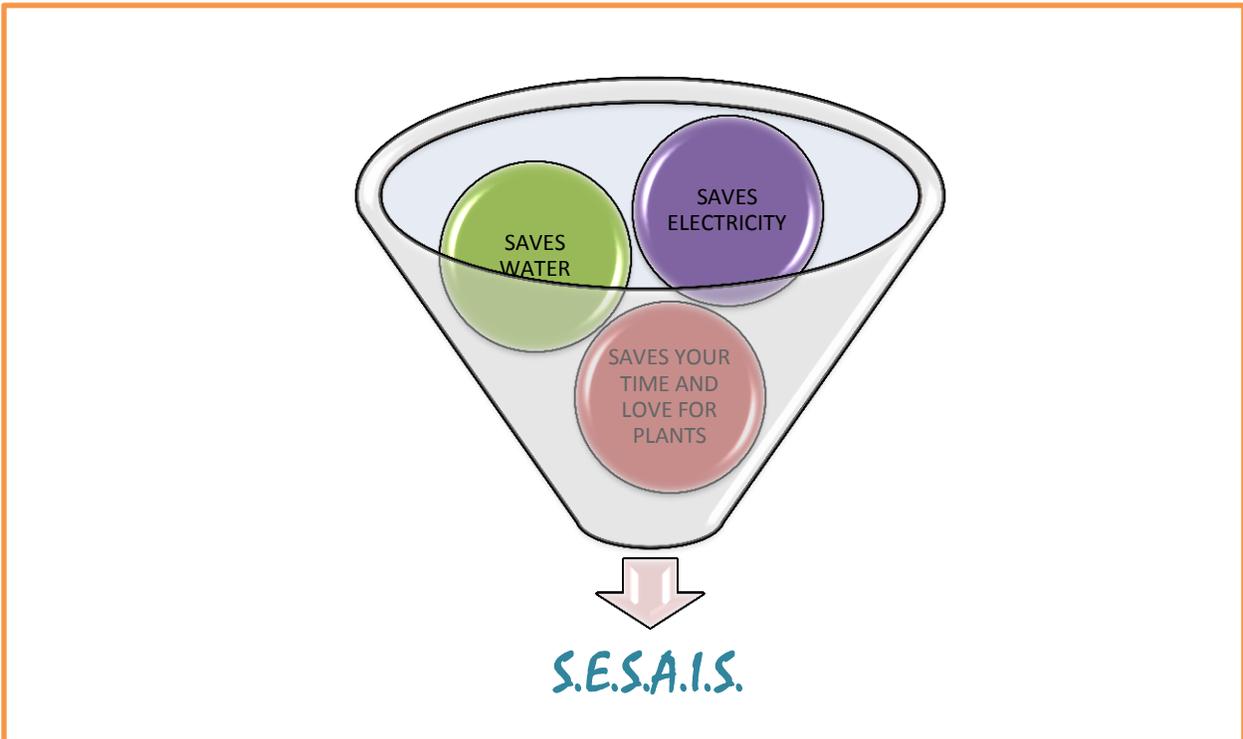
The detailed working of important components is given..

- **TIMER**:-the timer is programmable i.e. it has got all the seasons and month so that you can control the watering cycle as per requirement. For instance, plants need less water in monsoon season as they get sufficient water from rain, so you can reduce the cycle in the timer. You only have to program the timer once which in turn saves electricity.
- **CONNECTING CIRCUIT**: - this circuit will facilitate you with the control of your system. In other words you can switch on/off your system by your cellphone no matter where you are. You just have to call. EASY!!!!

## ADVANTAGES

Our system is efficient and has the following merits:-

- Takes up little space.
- Easy to handle.
- Saves water, electricity and your love for plants.
- Uses 1 liter water for 30 days.
- Can be used to decorate your home with ornamental plants.
- Is automatic in nature etc.



THE CHEAP, RELIABLE AND SMART WAY TO FULLFILL YOUR  
LOVE FOR PLANTS.

HELP US MAKING THE PLANET GREEN AGAIN