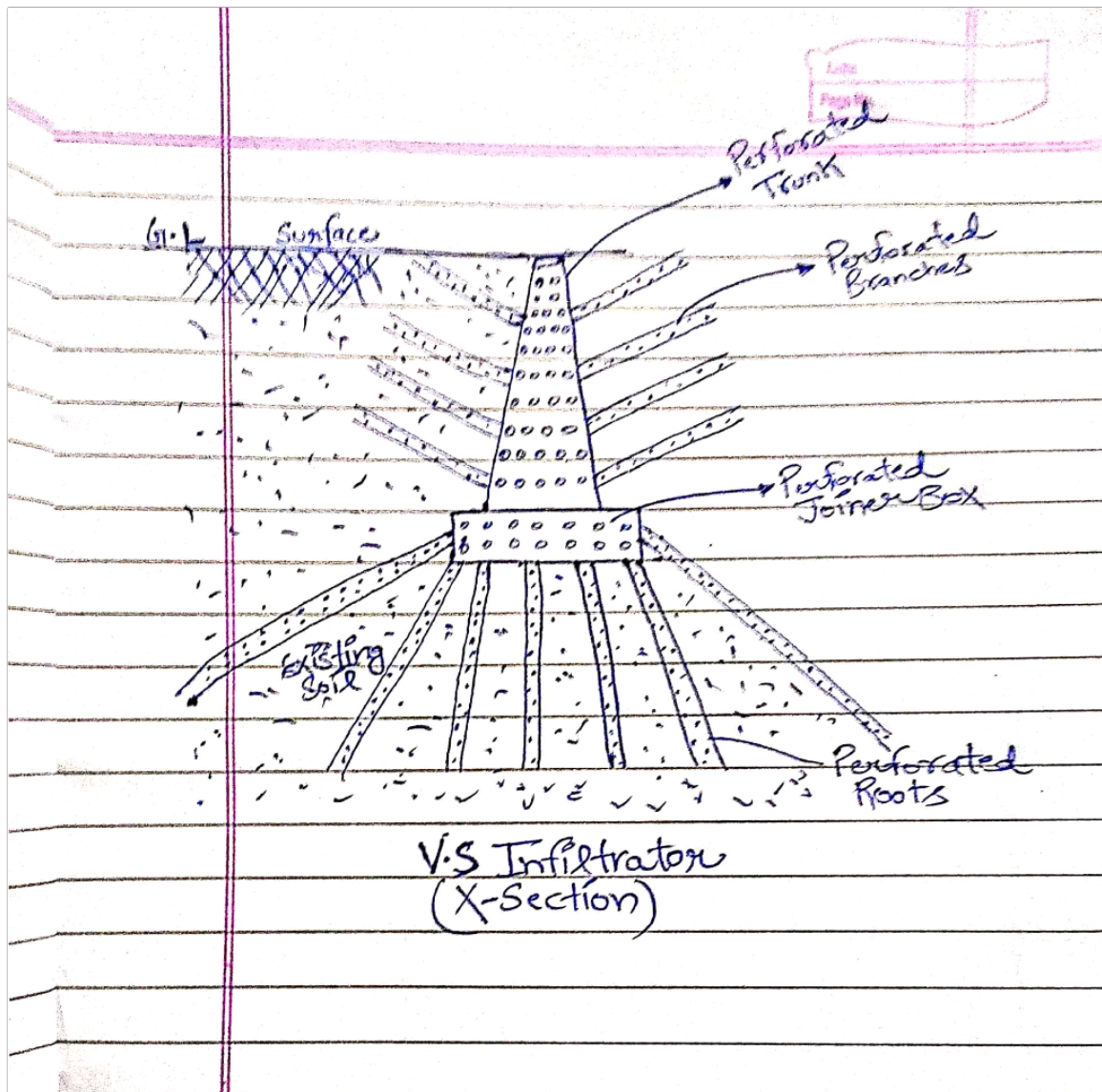
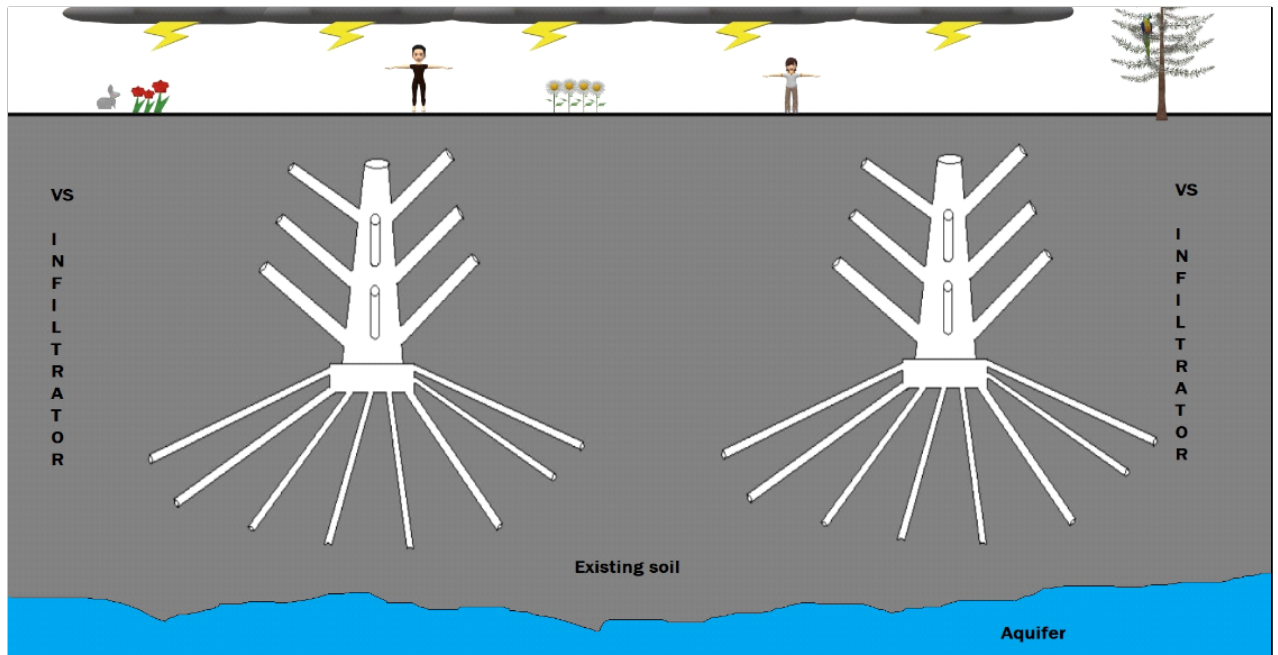


# Variksh- shaped(VS) Infiltrator

VS infiltrator is an innovative equipment/module which is used to increase the infiltration capacity of soil in areas where the infiltration capacity of soil is low or low permeability of soil. This infiltrator may be made from steel, recycled PVC or any material which does not have any short term and long term effect from placing inside the ground and wrapped with geotextile fabric/woven fabric to resist soil particles from entering inside the infiltrator. The design of this equipment/module is based on the shape of tree(variksh) as shown in figure. This infiltrator consist of ;





1. Perforated trunk
2. Perforated branches
3. Perforated joiner box
4. Perforated roots
5. Woven fibre/geotextile fabric

### WORKING PROCESS

*The working process/model of this infiltrator is based on tree shape in which when the rainfall event occurs then the rain water runoff from any type of permeable surface is infiltrated into the perforated branches and perforated trunk of the VS infiltrator and flows vertically with the help of gravity into the perforated joiner box and from the perforated joiner box it flows towards the perforated roots of the infiltrator and gets infiltrated into the aquifers.*

VS infiltrator is placed in vertical position just below the bottom of any permeable surface it may be permeable road, parks, soak pits,



injection well, river bed, ponds, permeable tiles, unpaved roads which allow the rainwater flow freely from permeable surface to perforated branches to perforated trunk to perforated roots and thus increase the infiltration capacity of soil. The dimensions of this infiltrator may be vary according to site conditions like infiltration capacity of soil, rainfall intensity, runoff catchment area.

## **BENEFITS**

- Variksh-type infiltrator replenish rain water percipitaion easily during rainfall event.
- This infiltrator reduce the intensity of flood in rivers.
- The design of this infiltrator give a boost to increase rentention capacity of soak pits, low permeable soil and other permeable surfaces.
- This infiltrtator reduce runoff time at the time of percipitation.
- The VS infiltrator increase infiltration capacity of soil.
- This infiltrator reduce water logging in roads,parking area or any permeable area.

