



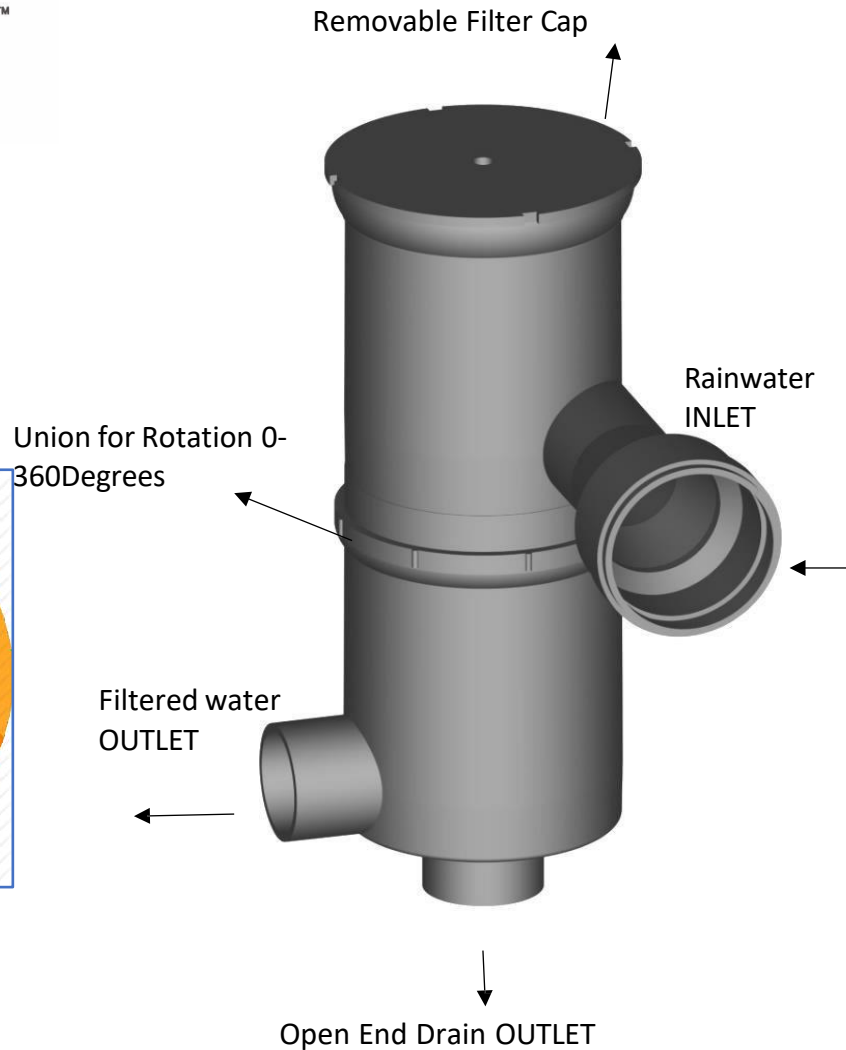
'Rainy' Dual Intensity Rainwater Harvesting Filters-New Invention





Uniqueness of Product Technology

'Rainy' –Dual Intensity Rainwater Harvesting Filters



➤ Revolutionary Breakthrough in Design & Technology in the Year 2011

FOUR New Models were introduced with Auto flush out & self Cleaning Mechanism with working principle of Cohesion & Centrifugal force .

➤ These heavy duty Dual Intensity Rainwater Harvesting filters are so designed; keeping in mind the capture of rainfall loads varying from 5mm to 75mm/hour without affecting the efficiency of filter and the operating required less than 0.06 kg/cm² (2feet). So the filter can perform even in low Roof areas. **The function efficiency is directly proportional to the intensity of rainfall.** Different models of filters were set in place to capture rainwater from varied rooftops.

➤ **Govt. has come forward** and installed 'Rainy' RWH systems in Many Govt. Primary schools in rural areas and able to mitigate the water crises by providing hygienic water for mid- day meals and also overall usage in schools.

➤ In Urban areas during monsoon, many apartments and industries were fulfilling their water needs through water tankers and ground water, which was **reduced in many places to the extent of 35%.**

Uniqueness of Product Technology

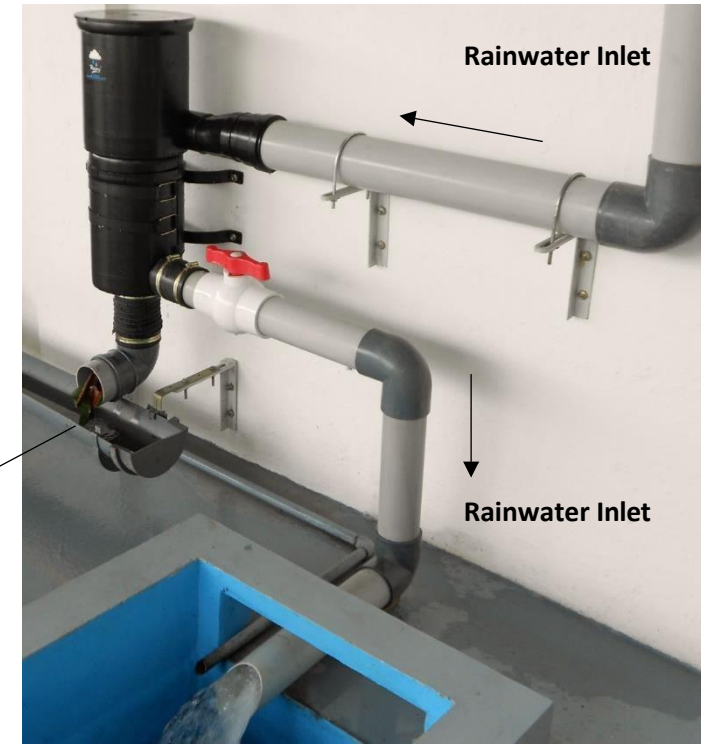
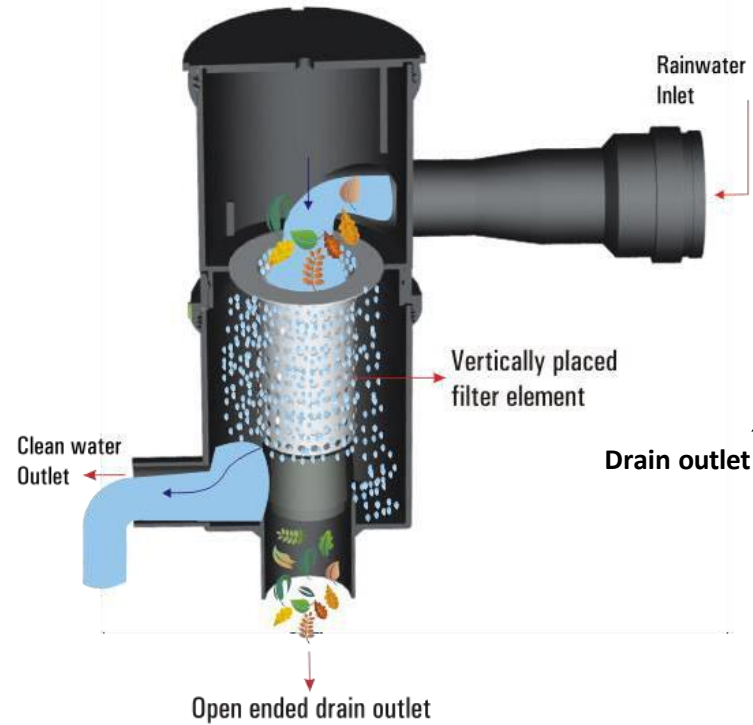
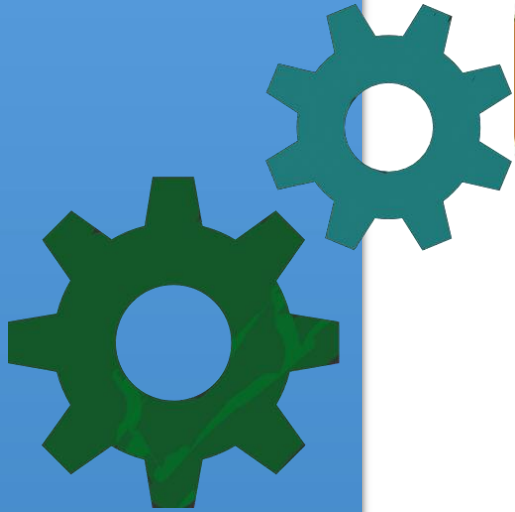
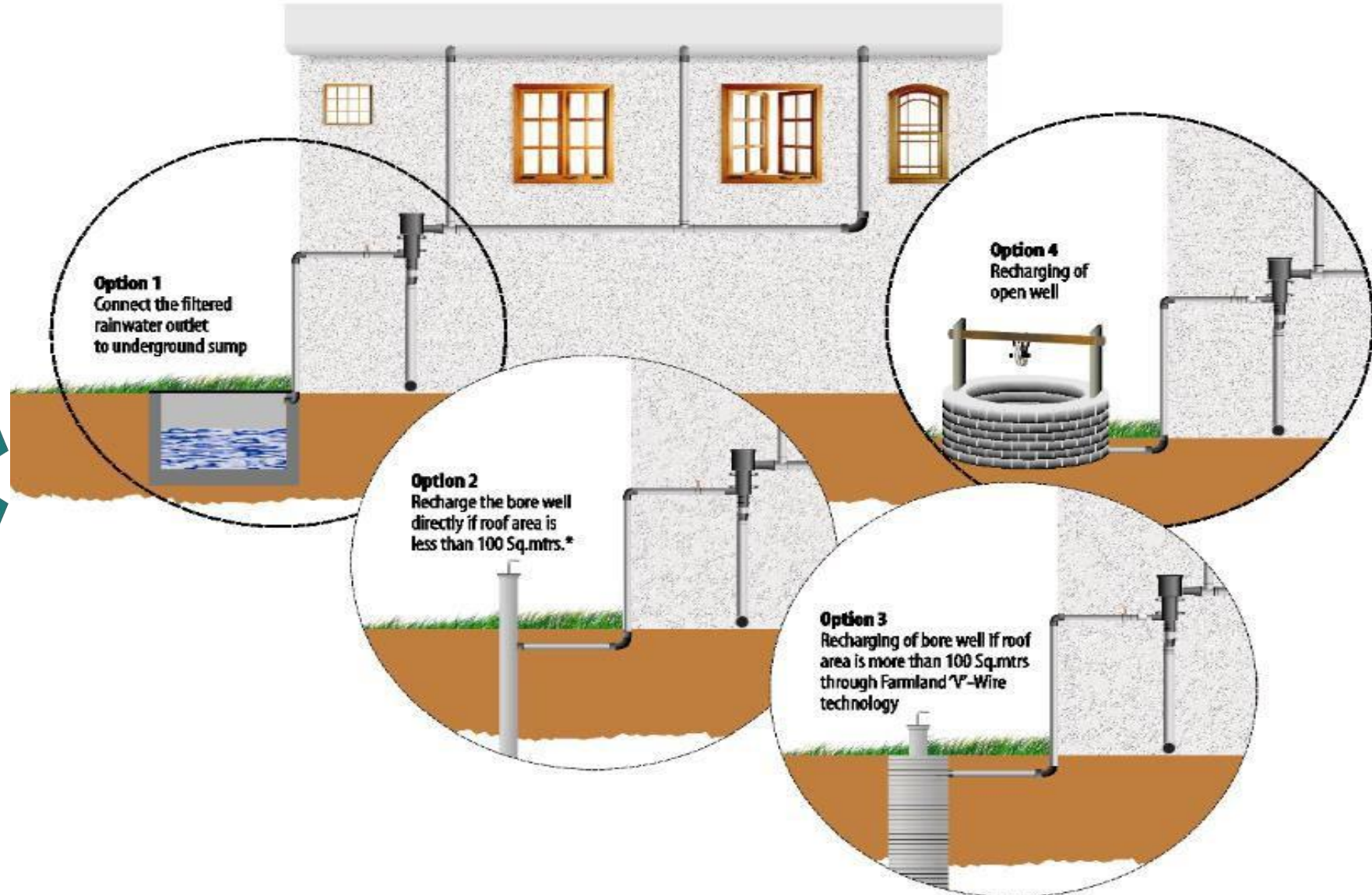


Fig. 3: Cut section view of Rainy Dual Intensity RWH Filter

- **Function of the Filter:** Rainy Filters are designed with self-cleaning mechanism and to fix to the wall by connecting Rooftop Rainwater Drain Pipes. When the Rainwater along with dirt & debris Flows by Gravity through the pipeline, enters into the filter, starts rotating in anticlockwise direction at the periphery of the upper Housing so as to flow into the SS-304 filter element placed in the lower housing in angular Motion at specific speed & velocity which creates Cohesive force at low intensity & centrifugal force at high intensity of rainfall. In both situations, involving low & High Intensity of rainfall, the working principle of the filter based on Cohesive & centrifugal force respectively, aids the filter element to flush out automatically the dirt & debris through the Drain Outlet and simultaneously divert clean water into the Sump/ recharging well through the Clean water Outlet, which can be used for reutilization or Recharging of Groundwater Source.

VARIOUS APPLICATIONS OF RAIN WATER HARVESTING





DUAL INTENSITY RAINWATER HARVESTING FILTERS



Technical Specification & Parameters of Rainy FL-80

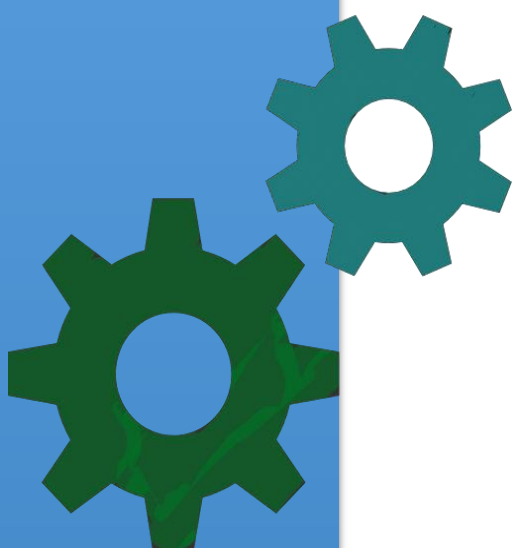
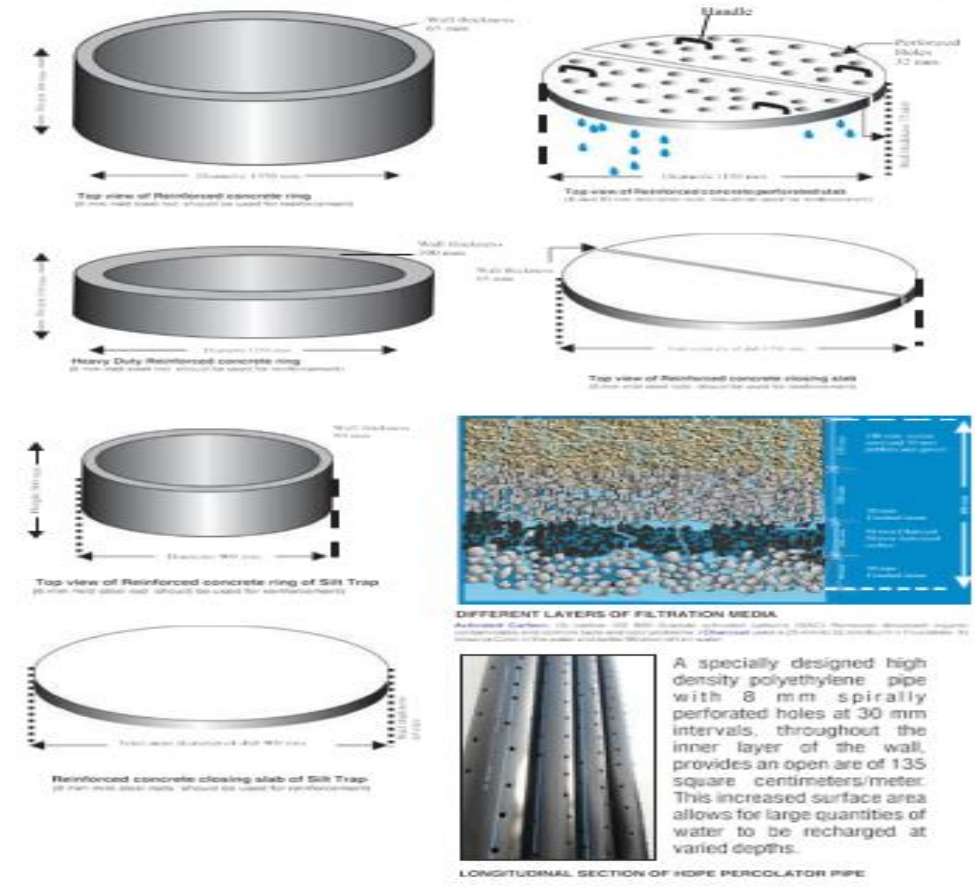
Suitable for area	Up to 120 square meters
Intensity of rainfall	5 mm/hour to 75 mm/hour
Filter type	Open ended, non-clog
Working Principle	Cohesive and Centrifugal force
Operating Pressure	> 1 foot of gravity head (0.06 Kg/cm ²)
Max discharge at CWO	120 LPM
Filter element	SS-304 Multi-surface screen - Food Grade
Mesh size	250 microns
Inlet size	90 mm
Clean Water Outlet (CWO) size	63 mm
Drain Outlet size	90 mm
Filter housing	UV stabilized - HDPE
Filter efficiency	Above 90%
Source of power	Gravity

'V' Wire Screen



- The V wire screen is of stainless steel material, grade SS-304, Cage type trapezoidal wire wound screen.
- Screen is evenly distributed continuous slot opening of 0.75 MM, so that it has more open area for minimum turbulence and loss of energy.
- The trapezoidal V shape inwardly widening slots are non clogging, so that sediments have only point contact.
- The diameter of the V wire screen is 150 mm, length 0.5 Meter.

Various components required for 'V' Wire Technology:



THE SALIENT FEATURES OF 'V' WIRE SCREEN

Continuous Slots
The special design gives continuous slot opening across the periphery and length of screen.

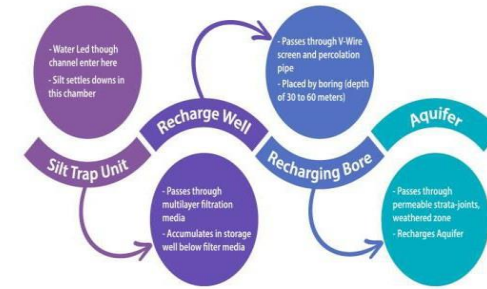
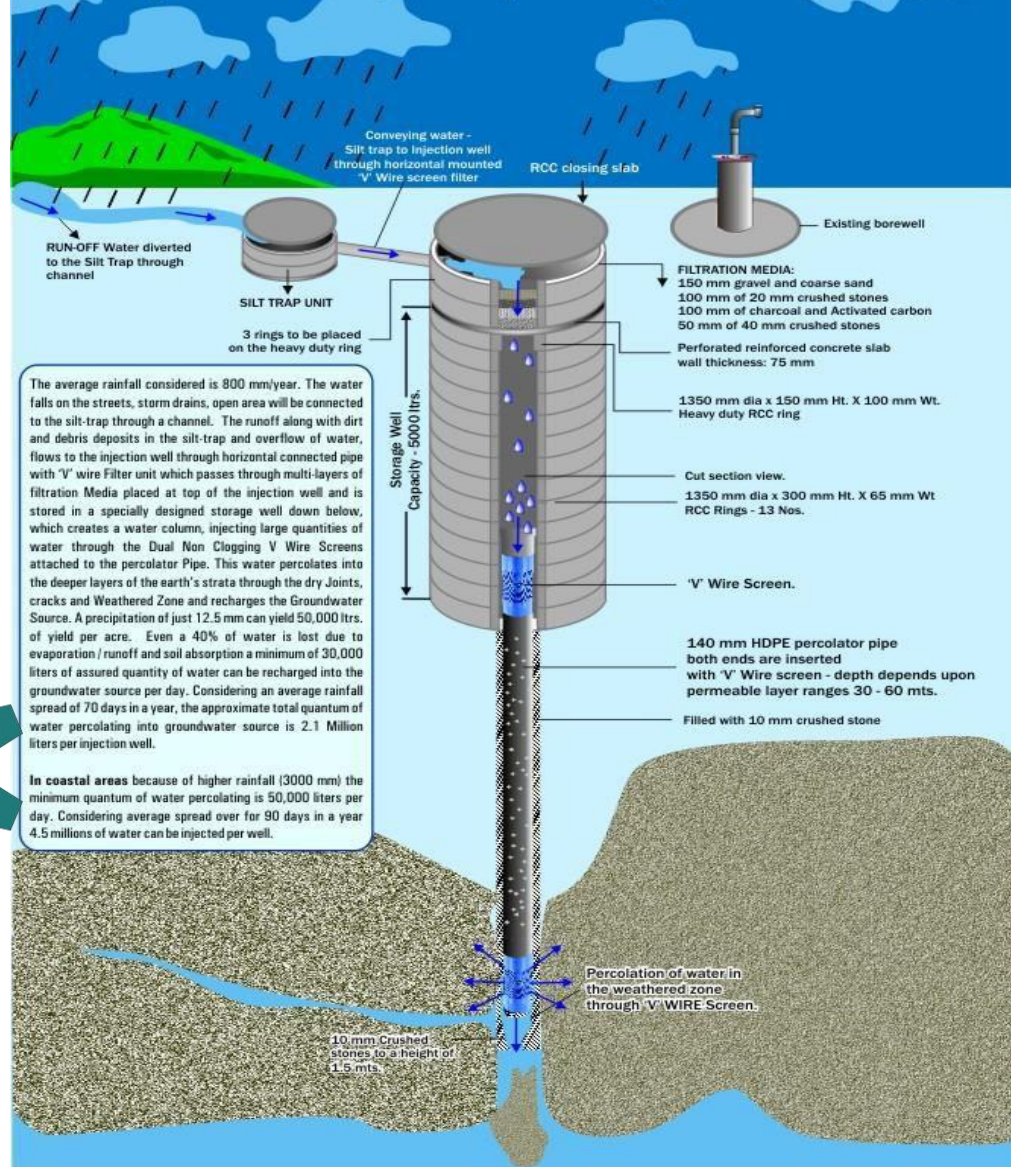


Non Clogging Slots
V-shape wire gives inwardly widening V-shape slots. This shape does not give space for any sand particle to get stuck inside the slot and hence these screens are non clogging.





INJECTION WELL TO RECHARGE DRINKING WATER BOREWELLS THROUGH 'V' WIRE TECHNOLOGY (Artificial Recharge and Aquifer Storage and Recovery)



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