Injection Well to Recharge Drinking Water Borewells through `V' Wire Technology

(Artificial Recharge and Aquifer Storage and Recovery)

The average rainfall considered is 800 mm/year. The water falling on the streets, storm drains, open area will be connected to the silt-trap through a channel. The run-off along with dirt and debris deposits in the silt-trap, and overflow of water, flows to the injection well through horizontal connected pipe with 'V' Wire Filter unit which passes through multi-layers of filtration Media placed at top of the injection well and is stored in a specially designed storage well down below, which creates a water column, injecting large quantities of water through the Dual Non Clogging 'V' Wire Screens attached to the percolator Pipe. This water percolates into the deeper layers of the earth's strata through the dry Joints, cracks and Weathered Zone and recharges the Groundwater Source.



A precipitation of just 12.5 mm can yield 50,000 lts. of yield per acre. Even a 40% of water is lost due to evaporation / runoff and soil absorption a minimum of 30,000 liters of assured quantity of water can be recharged into the groundwater source per day. Considering an average rainfall spread of 70 days in a year, the approximate total quantum of water percolating into groundwater source is 2.1 Million liters per injection well.

In coastal areas because of higher rainfall (3000 mm the minimum quantum of water percolating is 50,000 liters per day. Considering average spread over for 90 days in a year 4.5 millions of water can be injected per well.



'V' Wire Technology components



Different Layers of Filtration Media

Activated Carbon: (G carbon GS 800 Granule activated carbons (GAC) Removes dissolved organic contaminates and controls taste and odor problems.) Charcoal used is 25 mm to 32 mm Burnt in Foundries: To observe Color in the water and better filtration of rain water.



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varied depths.