INJECTION WELL TO RECHARGE DRINKING WATER BOREWELLS THROUGH 'V' WIRE TECHNOLOGY

(Artificial Recharge and Aquifer Storage and Recovery)

Conveying water -Silt trap to Injection well through the pipe

Well

Storage

RCC closing slab

RUN-OFF Water diverted to the Silt Trap through channel

SILT TRAP UNIT

2 rings to be placed on the heavy duty ring

The average rainfall considered is 800 mm/year. The water falls on the streets, storm drains, open area will be connected to the siltrap through a channel. The runoff along with dirt and debris deposits in the siltrap and overflow of water, flows to the injection well through a underground pipe and passes through multi-layers of filtration Media 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.

FILTRATION MEDIA:

150 mm gravel and coarse sand 100 mm of 20 mm crushed stones 100 mm of charcoal and Activated carbon 50 mm of 40 mm crushed stones

Existing borewell

Perforated reinforced concrete slab wall thickness: 75 mm

1350 mm dia x 150 mm Ht. X 100 mm Wt. Heavy duty RCC ring

Cut section view.

1350 mm dia x 300 mm Ht. X 65 mm Wt RCC Rings - 14 Nos.

'V' Wire Screen.

140 mm HDPE percolator pipe - 24 mts both ends are inserted with 'V' Wire screen

Filled with 10 mm crushed stone

For Further details, Please call: 93 92 509 500

Percolation of water in the weathered zone through 'V' WIRE Screen.

10 mm Crushed stones to a height of 1.5 mts.