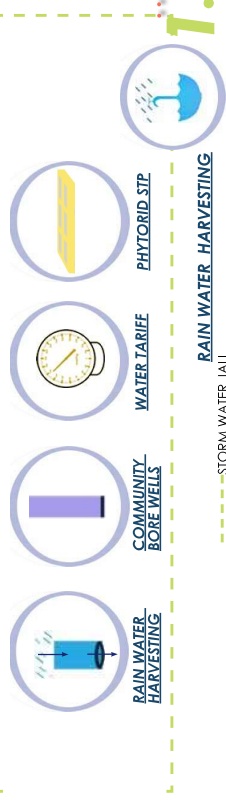


# RAINBOW DRIVE

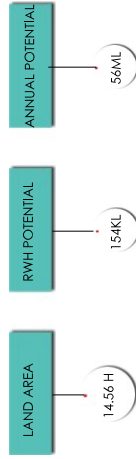
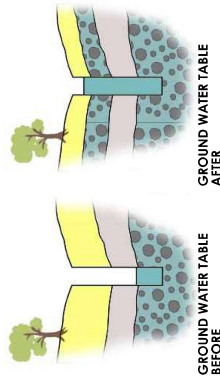
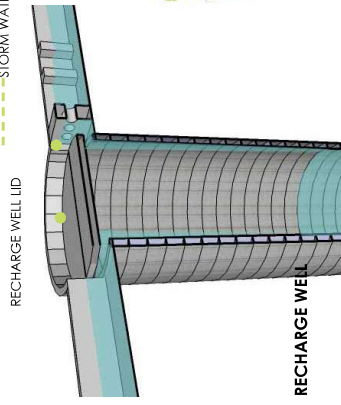
## RE-IMAGINING WATER SOURCES

Rainbow Drive is a 36acre neighborhood with 430 plots located in south east Bangalore. The sloped land posed a challenge for the residents due to excessive flooding during monsoon. Also, due to lack of connectivity to the municipal water supply, the residents depended on ground water from borewells for their daily consumption. As a result of the scarcity and flooding, they opted to conserve, reuse and recycle water through rainwater harvesting, recharge wells and a Phytoroid sewage treatment plant. This was done by creating a layout association that worked collaboratively.



### RAIN WATER HARVESTING

- More than 360 recharge wells, on an average 3 feet in diameter and of depth 20 feet, have been created.
- This effectively means zero discharge has been achieved for rainwater for the entire layout.

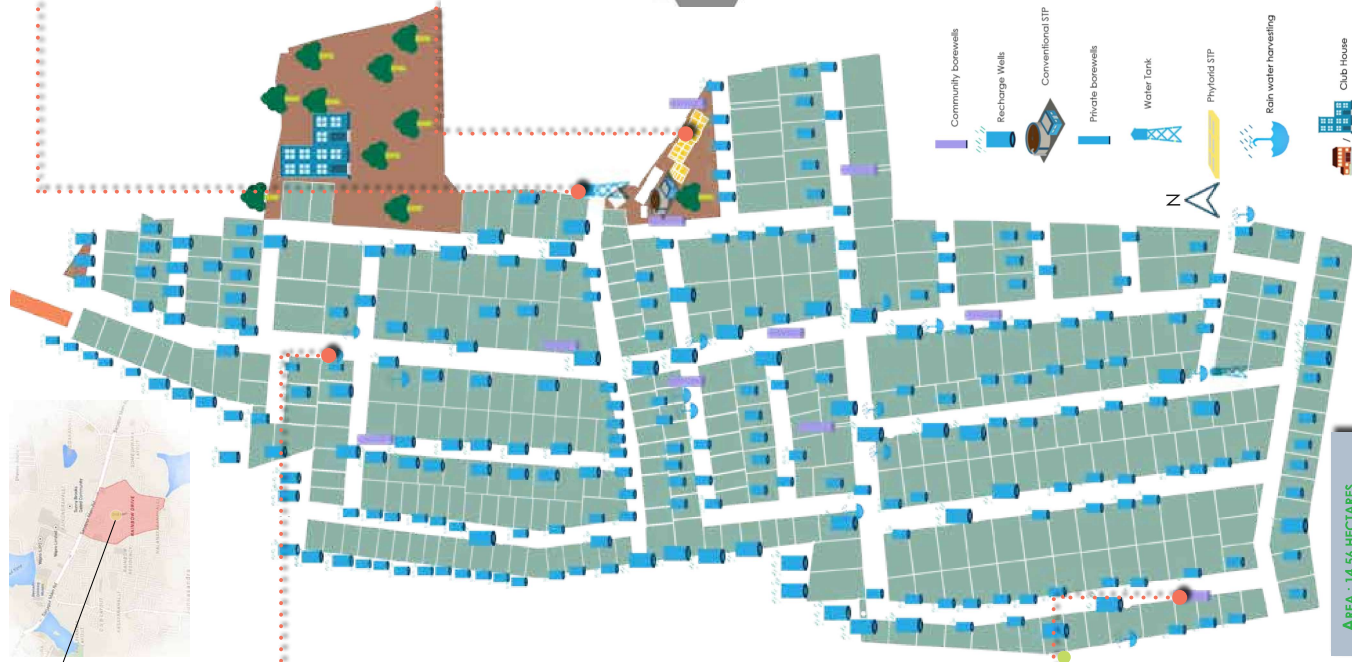


### COMMUNITY BORE WELL

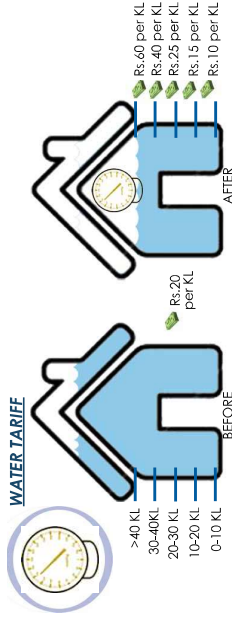
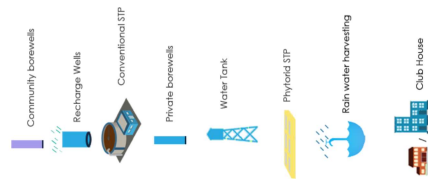


- Ban of digging private borewells.
- Dependent on 6 common bore-wells
- Improved aquifer capacity

Ground water table has risen to around 250ft and hence benefitting the surrounding communities.



AREA : 14.56 HECTARES  
PLOTS : 435



### WATER METER

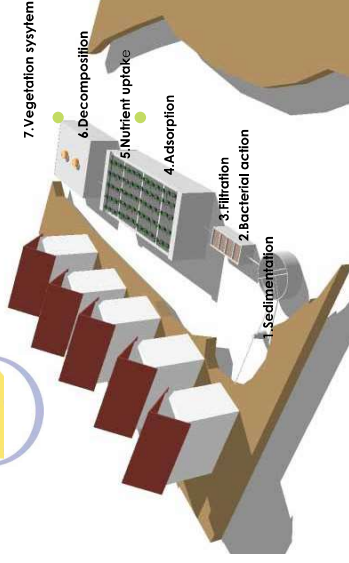
- METERING HELPED IN CALCULATING CONSUMPTION AND ARRIVE AT A TARIFF
- REDUCTION IN WATER USAGE

Water meters are installed at overhead tanks and at household levels, which monitored the inflow and outflow of water supply and usage respectively. This in-turn helped in tabulating a new water tariff for the layout.

Water pricing ☺ Water consumption



### PHYTOROID SEWAGE TREATMENT PLANT



### CONVENTIONAL

- POOR WATER QUALITY
- POLLUTION
- MAINTENANCE COST AT RS40,000/MONTH

### PHYTOROID

- BETTER WATER QUALITY
- ENVIRONMENT FRIENDLY
- MAINTENANCE COST AT RS 10,000/MONTH

### THE WATER DISTRIBUTION CYCLE

After the end of the distribution cycle, there's a surplus of 60KL daily, thus making it a self sufficient neighbourhood.



# WATER WORKS THE BENGALURU STORY