

Rain Water Harvesting (RWH) at BEL

BEL Bengaluru Unit:

Rain Water Management: Rainwater is harvested for recharging the ground water table been done in following manner:

- Roof top harvesting for reuse: RO Water generation and flushing
- Local recharging pits
- Large scale RWH Tank

Local Rain Water Re-charge Pits:

- Rain water from roof are collected in local re-charge pits near building only.
- 24 local recharging pits constructed.
- Over flow from these pits are diverted to large scale rainwater harvesting ponds.



Roof-top Rain Water Harvesting

- Rain water from a roof area of 2000 Sq.m collected in underground tank and re-used for generation of De-Mineralized water for production.
- Around 1100 KL of rainwater harvested annually & utilized for De-Mineral water for production.
- Roof top water collected is used for flushing purpose in newly constructed buildings



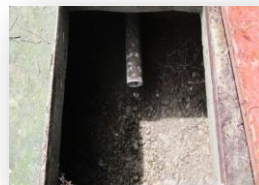
Rainwater Harvesting Facility: Large scale RWH reservoir at BEL Bengaluru Unit has a capacity of 170 Million Litres with expected annual yield of around 234 Million Litre. Total enclosed area is around 37,229 Sq. M (10 Acre) with Maximum Water Holding Capacity of 170 ML and Maximum Harvestable Quantity of 235 ML. Project was commissioned in April 2003 at a cost of Rs.57 Lakhs.



BEL Ghaziabad Unit: The Unit is spread over 190 acres of land in industrial area with approx. 94,000 SQM of roof top and 80000 SQM of road /hardstand. All the area are connected to RWH Structures / Recharging Pits. There are 11 nos. of RWH inside the factory. Balance area is green land and not discharging any rain water outside the factory. Also, the total roof top and road area of Brij Vihar & Chander Nagar Townships is approx. 18,000 SQM and are covered with 11 RWH Structures/ Recharging Pits. There are 44 building inside the factory and all the buildings (Old /New) are having dual pipe line system (Separate for drinking water and service water).



BEL Kotdwara Unit: The Unit has 24 recharging pits for charging & replenishing the ground water.



BEL Panchkula Unit: Rain Water Harvesting System successfully completed in FY 2019-20 and inaugurated on 27.02.2020 at BEL, Panchkula (Haryana) Unit.



BEL Hyderabad Unit: The Unit has 14 nos of RWH pits and 4 Injection Bore wells.



BEL Pune Unit: RWH completed in 20 Buildings. The rain water from the roof tops of all buildings and from perimeter road is taken to 5 RWH pits through Storm water drains.



BEL Machilipatnam Unit: Three underground rain water storage tanks are constructed to collect rain water from the roofs various buildings inside the factory. The water collected from the roofs of various buildings is connected to underground tanks through PVC pipes. Total capacity of rain water collection in the BEL –MC is 146 KL.



BEL Chennai Unit: Existing roof top rain water drain pipe lines of Power house & Shipping buildings have been extended and connected with suitable size manholes for collecting the rain water. And the same rain water pipe line has been extended upto the pond nearer to existing main borewell for charging and also to increase the ground water bed level. The entire work was completed on 10.03.2020. RWH completed at Shipping Building (Roof Top Area - 416 Sq.m) and Power House Building (Roof Top Area - 436 Sq.m)

