RAINWATER HARVESTING SYSTEM OF RAIN CENTRE

RAINWATER HARVESTING POTENTIAL

Total catchment area: 300 square metres (sq m)
Average annual rainfall in Burdwan: 1442 millimetres (mm)
Total rainwater available from rainfall: 253 metre cubic (m3) or 2,53,360 litres

WATER SUPPLY SOURCE

The water requirements in the rain centre are met through municipal supply.

RAINWATER HARVESTING SYSTEM

a. Storage for direct use
The rooftop rainwater from the office building is collected in a rainwater pipe and after passing through a filtering medium, stored in 12,000 litres capacity ferro-cement tank located towards anganwari centre. A first flushing valve is used to discard initial rains carrying pollutants from atmosphere and catchment. This water can be used for potable purposes after basic treatment. The rainwater from backside corner of exhibition hall is also collected and stored in 200 litres PVC tank placed over toilet. This water is used for toilet flushing and washing purpose. The overflow of storage tanks is collected in a nearby pond and used for washing and other purposes.

b. Groundwater recharge
The rainwater from exhibition hall roof is collected in a collection chamber and after filtration, the water is diverted into a dug well. The diameter of dug well is 1 metre and the depth is 5 metres. It collects all rainwater and helps in groundwater recharge. The runoff generated from paved area under artificial rainfall is also diverted into the same dug well. Leaf screens provided on the rooftops help to arrest coarse debris, tree leaves, bird droppings etc . A rain garden (sunken lawn with indegenous plants and vegetation) located right to main gate soaks runoff from nearby paved and unpaved area and helps in groundwater recharging.

Date implemented: November 2008.
Total cost: Rs 0.60 lakh.