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Got 1st rank in Institutional category. Mr S. Ahmad, Vice Chancellor, Jamia Hamdard University receiving Rs 2 Lakh award from Chief minister



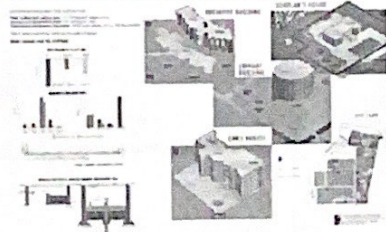
JAMIA HAMDARD UNIVERSITY'S RAINWATER HARVESTING SYSTEM

RAINWATER AVAILABLE FOR HARVESTING

Total rooftop and surface area: 3,15,380 square metres (sq m)

Average annual rainfall in Delhi : 611 millimetres (mm)

Total volume of rainwater harvested: 67444 cubic meters (m³) or 6,74,44,000 litres.



This represents 35 per cent of total rainwater harvesting potential

WATER SUPPLY SOURCE

The daily water requirement of approximately six lakh litres is extracted from six borewells. The remaining requirement is met through private water tankers.

RAINWATER HARVESTING SYSTEM

Rainwater from various catchments, such as rooftop, surface runoff from open areas and runoff from the Jahanpanah Reserve Forest are harvested.

1. ROOFTOP RAINWATER HARVESTING**a) Rooftop rainwater harvesting at the library building**

Rainwater from the library's rooftop is taken to a desilting chamber measuring 2m x 2m x 3m through a closed drain. A baffle wall divides the desilting chamber into two compartments--settlement and filtering chambers. The rainwater first enters the desilting chamber where the silt gets collected and then overflows into the filtering chamber. The filtering chamber has pebbles, which further filters the rainwater before diverting it into the recharge well. The recharge well measures 1.5m x 1.5m x 3m in size with a 30m deep recharge borewell measuring 100mm in diameter.

b) Rooftop rainwater harvesting at the girls' hostel

Rainwater from the hostel terrace is diverted to a circular recharge well 2m in diameter and 3m deep through a closed channel. A desilting chamber is created by constructing a baffle wall inside the recharge well. The rainwater from the terrace flows into the desilting chamber, where the silt gets deposited. The silt-free water overflows into the recharge well. The recharge well encompasses a borewell which is 100mm in diameter and 30m deep.

2. SURFACE RUNOFF HARVESTING**a) Surface runoff harvesting near library building**

Surface runoff from the paved and unpaved areas surrounding the library is collected in two trenches located in the eastern part of the campus (near Gates 5 and 6). The runoff collected near Gate 5 is diverted into a recharge well. Similarly, the runoff from the northern side of the building is drained into an abandoned open dugwell near Gate 6.

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