

PROJECT PROPOSAL

Rooftop Rainwater Harvesting for Green Valley Society

Proposal to capture and reuse rooftop rainwater across six
residential towers

PREPARED FOR

Managing Committee and Residents

PREPARED BY

Suresh Nair, Environment Sub-committee

DATE

January 2026

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Executive Summary

Green Valley buys water tankers every summer while most monsoon rainwater from our rooftops flows into storm drains. This proposal recommends a rooftop rainwater harvesting system with filtration and recharge pits for all six towers, reducing tanker dependence and recharging groundwater.

6 towers

Covered

₹7.8 L

Estimated cost

3 months

Installation

Background and Need

Water demand in the society has risen while borewell levels have fallen. In the last two summers the society spent heavily on tankers.

The combined rooftop area of the towers can capture a large volume of rainwater each monsoon, which is currently wasted.

Goals and Objectives

Harvest rooftop rainwater to reduce tanker purchases and recharge groundwater.

1. Install collection, filtration and recharge systems for all towers.
2. Reduce summer tanker purchases.
3. Raise residents' awareness of water conservation.

Approach and Activities

Site survey

Measure rooftop areas, downpipes and suitable pit locations.

Design

Size filters, storage and recharge pits with a qualified consultant.

Installation

Phased work tower by tower with minimum disruption.

Awareness

Information sessions and notice-board updates for residents.

Deliverables

Deliverable	Description	Due
Survey report	Roof areas and layout	Month 1
Approved design	Drawings and bill of quantities	Month 1
Installed systems	All six towers	Month 3

Deliverable	Description	Due
Maintenance plan	Cleaning schedule and responsibilities	Month 3

Timeline

The work plan below shows the main activities and their indicative timing.

Activity	Jan	Feb	Mar	Apr
Survey and design	■			
Vendor selection	■	■		
Installation		■	■	
Testing and handover				■

Team and Governance

Name	Role	Responsibility
Suresh Nair	Coordinator	Planning and vendor coordination
Meena Joshi	Treasurer	Budget and payments
Consultant (to be appointed)	Technical expert	Design and supervision
Tower representatives	Liaisons	Resident communication

Budget

All amounts are estimates in Indian rupees and are provided as sample figures for planning.

Head	Details	Amount (₹)
Consultant fees	Survey, design and supervision	60,000
Filters and piping	Six towers	280,000
Recharge pits	Eight pits with filter media	320,000

Head	Details	Amount (₹)
Civil work	Excavation and restoration	90,000
Contingency	Unforeseen items	30,000
Total		780,000

Monitoring and Evaluation

Indicator	Target	How measured
Systems installed	6 of 6	Completion certificate
Tanker purchases	Lower than last summer	Accounts records
Borewell level	Stable or rising	Pre- and post-monsoon readings

Risks and Mitigation

Risk	Likelihood	Mitigation
Delay due to early rain	Medium	Start work in January
Cost overrun	Low	Fixed-price contract
Poor maintenance	Medium	Annual maintenance contract and checklist

Conclusion

Rainwater harvesting is a long-term investment in our water security. We recommend approval at the next general body meeting.

Next step

Approve the proposal and authorise the committee to invite quotations.

Suresh Nair

Submitted by

Approved by (name, designation)