JAL SANRAKSHAN:

Your Personalized Water Security Report

Empowering You to Harvest Every Drop

Date: 22-09-2025

Assessed Location: Patiala Generated by: RWHGenius App

1. Executive Summary

Your property holds significant potential to contribute to water security and reduce your water bills!

Overall Feasibility: HIGHLY SUITABLE

Estimated Harvestable Water (Annual): 247,095 Liters

Recommended Structure: Recharge Shaft Estimated Payback Period: ~4 Years

2. Site Assessment

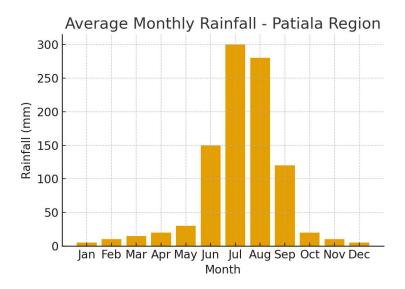
User Name	CHAITANYA
Phone Number	98XXXXXXXX
Location	Patiala
Rooftop Area	360 sq. meters
Roof Material	RCC (Runoff Coefficient: 0.85)
No. of Dwellers	4
Open Space	220 sq. meters
Primary Purpose	Water storage and usage
Estimated Budget	₹50,000 - ₹1,00,000

3. Harvesting Potential

Your rooftop can capture over 247,095 Liters of precious rainwater annually! Enough water for a family of 4 for over 60 days!

4. Hydrogeological Profile

Your local environment is perfectly suited for effective groundwater replenishment.



Local Rainfall: 950 mm/year (Source: IMD Data) Soil Type: Alluvial (Excellent infiltration potential)

Principal Aquifer: Deep Alluvial Aquifer (Ideal for recharge)

Groundwater Depth: ~20 meters

5. Economic Analysis

Total Project Cost	₹50,000 - ₹75,000
Excavation & Labor	₹25,000 - ₹35,000
Lining & Filter Media	₹15,000 - ₹25,000
Pipes & Connectors	₹5,000 - ₹10,000
Annual Water Bill Savings	₹15,000 - ₹20,000
Payback Period	~4 Years

6. Recommended Structure & Design

Given your deeper groundwater, a Recharge Shaft is the most efficient solution to replenish aquifers directly.

Туре	Recharge Shaft
Diameter	1.5 meters
Depth	18 meters
Construction	Lined with concrete rings/bricks, filled with graded filter materials