



CASE STUDY



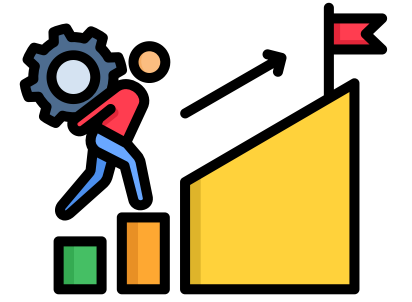
ABOUT VKC PRIVATE LTD

VKC, founded in 1984 by VKC Mammed Koya, is a leading footwear manufacturer in South India, specializing in affordable, high-quality slippers. Initially focused on Hawai slippers, the company expanded by introducing EVA-injected soles in 2003, offering soft, flexible, and weather-proof footwear. Operating under three brands—VKC Pride, VKC Junior, and VKC Lite—VKC now has 20 manufacturing units across 6 Indian states. The company integrates cutting-edge technologies, including SAP-enabled business processes and advanced design studios, ensuring high customer satisfaction and product innovation.



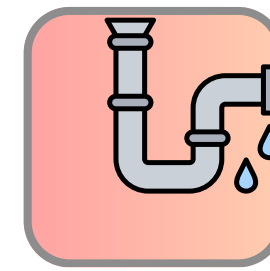


Water Management Challenges at VKC PRIVATE LTD



INEFFICIENT WATER RECYCLING

Before rainwater harvesting, the company relied on borewells, causing over-extraction and declining ground water tables.



COMMUNITY WATER STRAIN

The company's water usage may have led to over-extraction, impacting surrounding local communities and industries relying on the same sources.



UNCONTROLLED WATER POLLUTION

The absence of proper filtration systems before RWH installation led to water contamination, affecting production quality and environmental health.



WATER WASTAGE

Without a proper rainwater harvesting system, rainfall runoff would have been wasted instead of being collected for recharge.

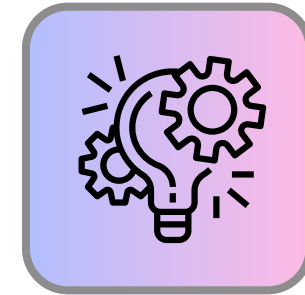


Our Solutions



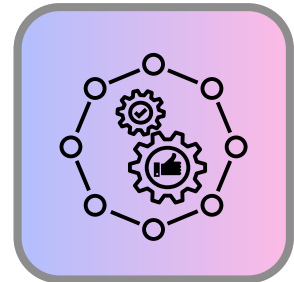
COMPREHENSIVE SITE SURVEY

Surveyed VKC's 6000 sq.ft roof area, rainwater flow, and infrastructure to design a custom solution for efficient rainwater capture and recharge



CUSTOMIZED SYSTEM DESIGN

Designed a rainwater harvesting system using Rainy Filters FL-500, optimized for local conditions. This system was designed to collect and filter rainwater efficiently



RECHARGE INTEGRATION

Filtered rainwater, totaling 426,105 liters annually, was directed to a borewell to recharge, restore groundwater levels, and ensure sustainable water use for VKC.



RAINWATER INSTALLATION

Rainy Filters in series were installed to filter rainwater, providing clean water for recharge and reducing ground water table contamination





Our Impact



Overview

WATER SAVINGS

420K

LITERS OF WATER SAVED ANNUALLY,
REDUCING EXTERNAL WATER
RELIANCE.

DEPENDENCY

85.2%

REDUCTION IN SECONDARY WATER
RESOURCES

ROI

2Y

THE RWH SYSTEM YIELDS ROI IN 1-2
YEARS

WATER BILLS

RS 2K

REDUCTION IN MONTHLY SPENDS
FOR WATER

VKC Footcare Private Ltd faced significant water challenges, including groundwater over-extraction, water shortages, and contamination. Following a detailed site survey, we designed and implemented a tailored rainwater harvesting (RWH) solution using advanced Rainy Filters FL-500 to efficiently filter rainwater. This system recharged 426,105 liters of groundwater annually, reducing Total Dissolved Solids (TDS) and enhancing overall water quality. With the new RWH system, VKC reduced external water dependency by 85.2% and achieved an ROI in just 1-2 years, leading to annual savings of Rs. 2,000 on water bills. This initiative provided a reliable water source, strengthened sustainability, and improved water management at VKC Footcare.



Our Work





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Farmland Rainwater Harvesting System

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