ONE BILLION DROPS

Sustainability through water security

United Way

United Way Bengaluru



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What is **One Billion Drops?**

The **OBD(One Billion Drops)** is a program to enhance the depleting groundwater levels by conserving rainwater. The project intervention involves an integrated approach where social, technical and environmental aspects are blended during the intervention phase.

Aimed for

The **One Billion Drops** program aims to build **10,000** percolation pits and thereby conserve **1 billion litres** of rainwater every year.



ONE BILLION DROPS

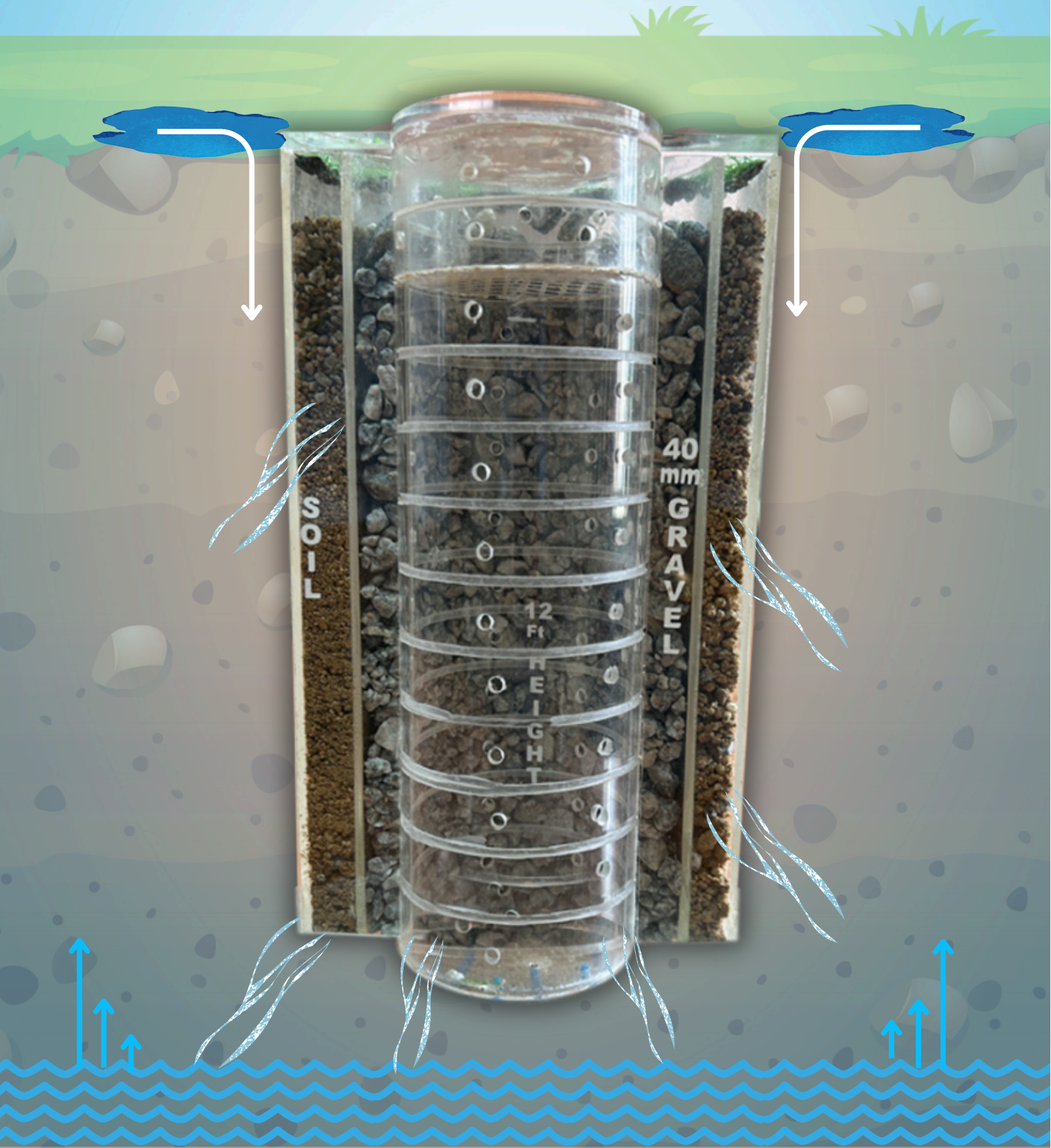
Sustainability Through Water Security

The project aligns well with the Jal Jeevan Mission of "***Catch the Rain, Where it falls, When it falls***" under the **National Water Mission**.

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What is **Percolation Well?**

A **percolation well** is nothing but a hole dug into the ground. It helps draw water downward through the soil, recharging groundwater.



Objectives

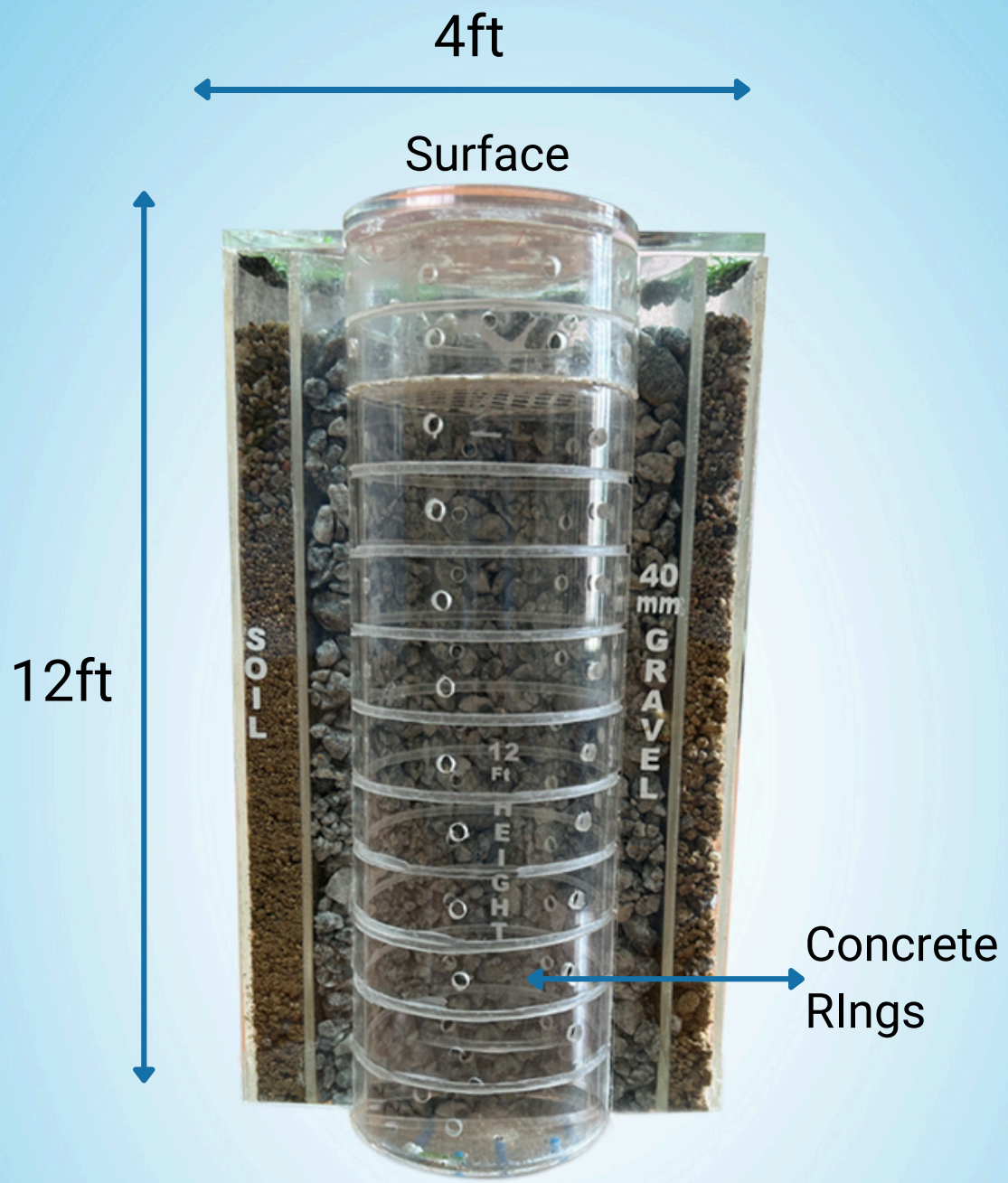
- Conservation of rainwater that is largely runoff, wasted, evaporated and lost across the city's terrain
- Contribution towards water security to ensure sustainable cities and communities
- Enhancement of groundwater table through percolation methodology

Technical details

Diameter	4 feet
Height	12 feet
Volume	150.79 cubic feet
1 cubic feet is equal to	28.3168 liters
Volume of a Percolation well	4,270 liters
Total number of Percolation Wells aimed	10,000
Total volume of a well can hold in a year - 30 times fill in a year	1,28,100 liters
Total volume that 10,000 wells can hold in a year	12.81 crore liters

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Percolation Well



- Measurement - 12 feet x 4 feet
- Can hold 4,270 liters of water at a time
- Can percolate about 1,28,000 liters of water annually

STEP - 01





- Measuring the levels/slopes, and waterways within the park and campus by using the GIS method
- Identification of Potential recharge areas and water runoff areas
- Mapping the watershed area and calculating the rainwater runoff
- Understanding the existing conservation methods and proposing new ones
- Geo-tagging of percolation well locations and marking them in the site

STEP - 02

A



Manual excavation of soil by digging for 1 unit (12 feet deep x 5 feet wide)

B



Placement of NP2 4 feet dia concrete rings filling gaps with 40mm aggregates (Jelly)

C



Fixture of 10mm iron rod as iron mesh for additional safety

D



Covering with slab of 4 inch thick and 4 feet dia

STEP - 03

- Thematic warli art on water conservation
- Numbering of all percolation wells
- Placing of information boards about percolation well







STEP - 04



Monitoring and evaluation of outcomes of the project



Measuring of water conserved over monsoon period



Creating awareness among the community about rainwater conservation

Sustainable Development Goals (SDGs) covered under the campaign

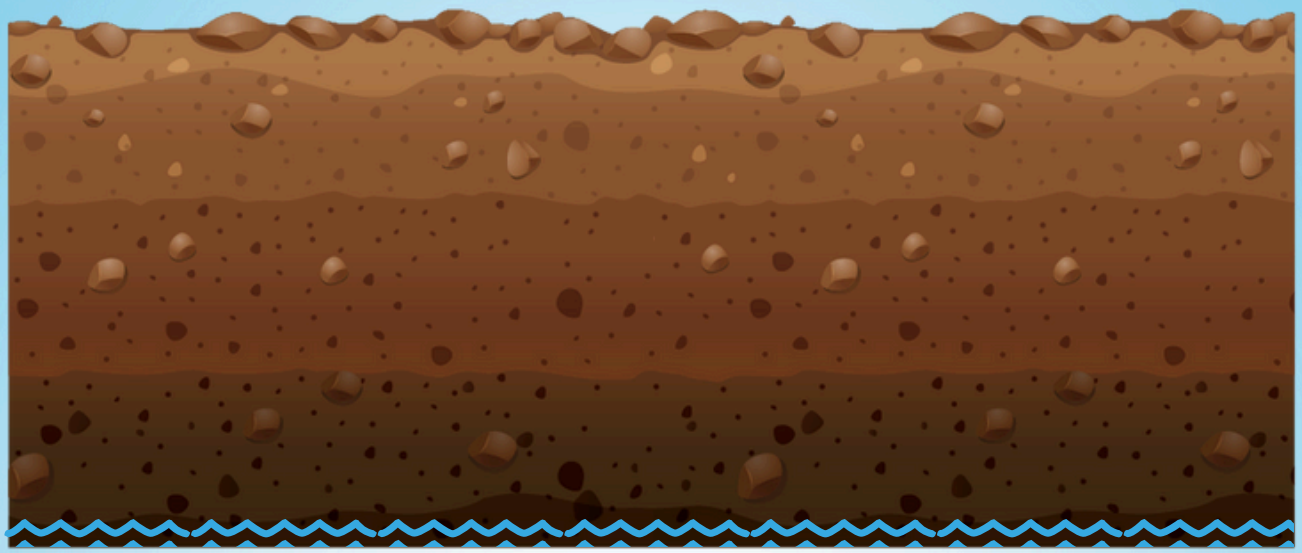








Before percolation well



Low Level Ground Water

After percolation well



Ground Level Water Increasing

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Since 2008, our registered not-for-profit organization has been dedicated to addressing the diverse and complex issues faced by communities in Bengaluru and few other places too. Through collaboration and a shared purpose, we bring together stakeholders from government bodies, civic organizations, and local communities to work towards solutions. By actively listening, identifying concerns, and empowering individuals, we enable them to tackle challenges head-on. Our commitment extends beyond initial interventions as we strive to maintain lasting impact by staying connected with the communities we serve. Together, we aim to make a meaningful difference in Bengaluru by taking local action for global change.

VISION



United Way envisions a world where all individuals and families achieve their human potential through education, income stability, and healthy lives.

MISSION



United Way seeks to improve lives by mobilizing the caring power of communities around the world to advance the common good.

LIVE UNITED
GIVE. ADVOCATE. VOLUNTEER.

Scan to know more :

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