

# Dev Sangha National School

Bompas Town, Deoghar



## Water Conservation: Strategies for the Future

A presentation on why water matters – and how each one of us can make a difference.

NILOTPAL KUMAR CLASS – VIII A

# Did You Know?



71%

Of Earth is Water

But only 3% is fresh water

2B+

People Without Safe Water

Every day, millions struggle to find clean drinking water

6L

Wasted Per Brush

Leaving the tap running while brushing wastes up to 6 liters!



If we don't act now, by 2050, over 5 billion people could face water shortages.

# Why Water is Essential

Water is the foundation of all life. Without it, nothing on Earth can survive.

## For Our Bodies

Our bodies are 60% water. We need it to digest food, regulate temperature, and stay alive.

## For Industry

Factories, energy plants, and hospitals all depend on a steady supply of clean water.

## For Agriculture

70% of all fresh water is used to grow the food we eat every single day.

## For Nature

Rivers, lakes, and wetlands support thousands of species of plants and animals.

# The Water Crisis Is Real



## Three Big Problems

### Scarcity

Many regions face severe droughts. Rivers and lakes are drying up faster than they can refill.

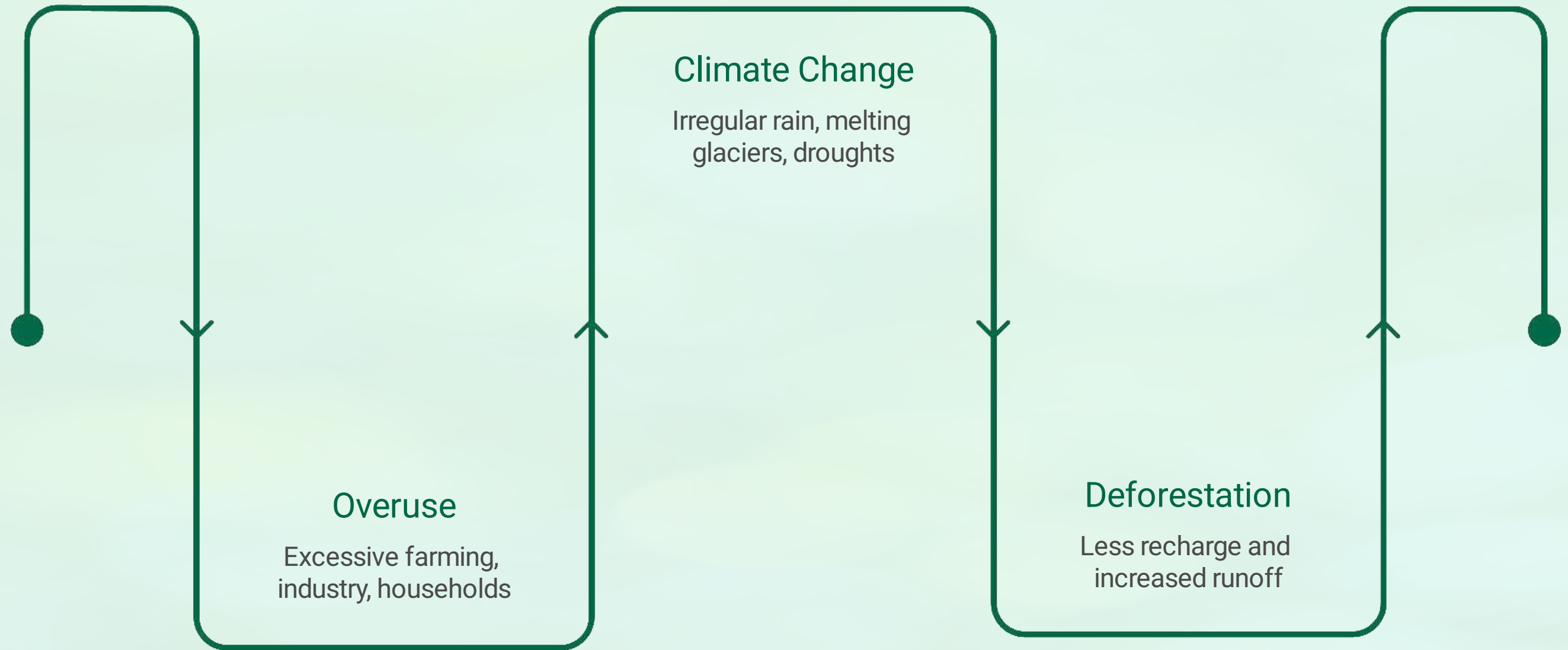
### Pollution

Industrial waste, plastics, and chemicals are contaminating rivers and groundwater.

### Wastage

Leaking pipes, careless use, and poor infrastructure waste billions of liters every year.

# What's Causing the Crisis?



These three forces work together – making the water crisis worse every year. The good news? We can reverse the damage with smart choices.

# Effects of Water Shortage



## On People

Millions walk miles daily for water. Children miss school. Diseases spread from dirty water.

## On Nature

Wetlands disappear, fish die, forests dry out, and biodiversity is lost forever.

## On Food

Less water means smaller harvests, higher food prices, and more hunger around the world.

# Save Water Every Day

Small habits, big impact. Here's what you can do starting today:

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## Turn Off the Tap

While brushing or soaping hands — save up to 6 liters per brush!

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## Reuse Water

Use leftover water from washing vegetables to water plants.

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## Take Shorter Showers

Even 2 minutes less saves 20+ liters every time.

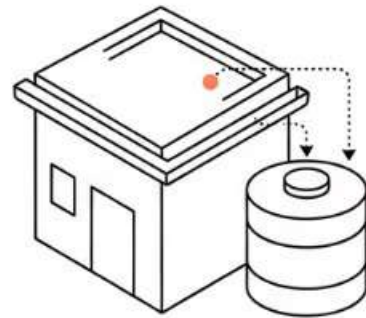
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## Fix Leaks

Report dripping taps at home and school immediately.

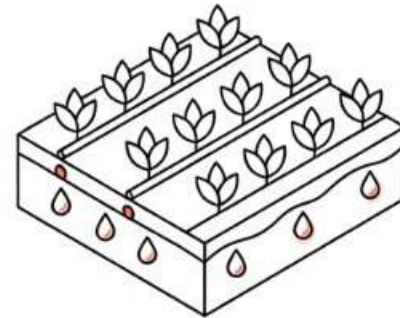
# Modern Solutions for a Better Tomorrow

## Rainwater Harvesting



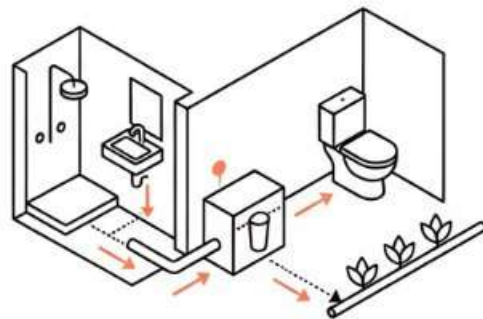
Collect rain from rooftops into tanks.

## Drip Irrigation



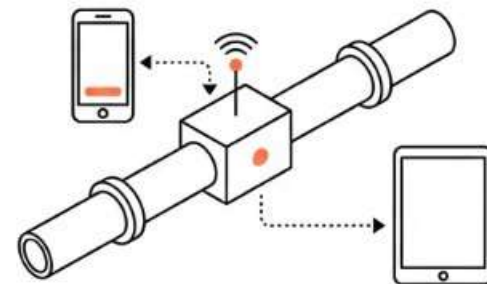
Deliver water directly to plant roots, saving water.

## Water Recycling



Treat and reuse greywater for gardens and toilets.


## Smart Technology



Sensors and apps that monitor and reduce water waste.

## Technology Meets Nature

The future of water conservation combines ancient wisdom with modern innovation. From rooftop rainwater tanks to sensor-controlled drip systems, these solutions are already working in cities and farms around the world.

 India's Jal Jeevan Mission aims to provide clean tap water to every rural household by 2024!



# A Day Without Water

Imagine waking up — no water to brush your teeth. The tap is dry. The toilet won't flush. Your plants are wilting. Breakfast can't be cooked. School has no water in the bathrooms. The farmer's crops have died. This is the reality for millions of people every single day.

Water is not a guarantee — it is a gift we must protect. Every drop saved today is a drop available for tomorrow.

# My School Water-Saving Idea



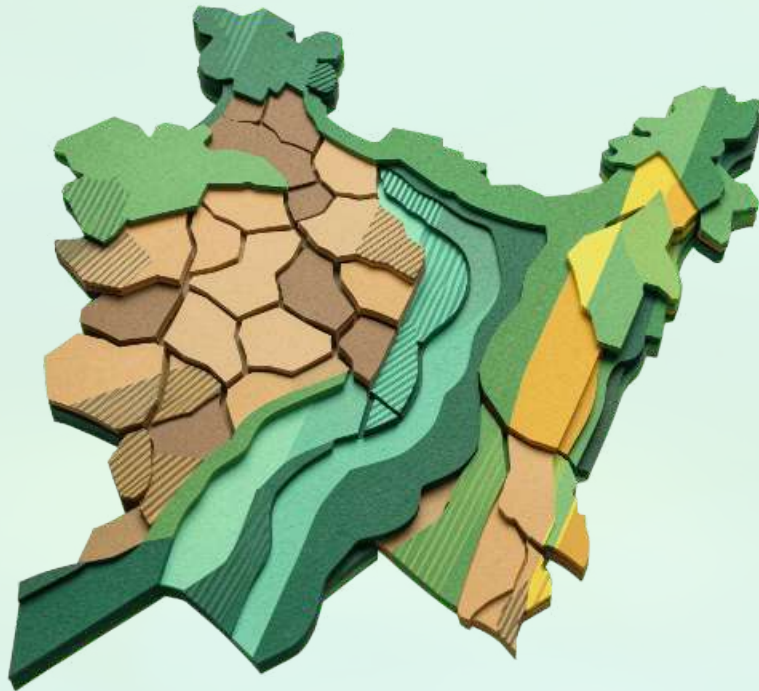
## The Rain Barrel Project

Install simple rainwater collection barrels under school building downpipes. Use the collected water to:

- Water the school garden and plants
- Clean outdoor areas and floors
- Teach younger students about conservation

✔ Cost: Low. Impact: Huge. Let's start this week!

# India's Water Crisis: The Heating Effect



## The Heating Crisis

- 2025: Extreme weather on 331 of 334 days (99% of the year)
- January 2025: Hottest since 1958
- February 2025: Record temperatures 1.5°C above 20th-century baseline
- Summer monsoon precipitation declined 8% since 1951

## Groundwater Emergency

- North India losing ~1.5 cm of groundwater per year
- 450 km<sup>3</sup> of groundwater lost in 2002-2021 (20 years)
- 11.1% of assessment units now "Over-exploited" (2024 data)
- 61% of groundwater recharge depends on monsoon rainfall

**i** The connection is clear: rising temperatures reduce monsoon rainfall, accelerate evaporation, and increase irrigation demands – creating a vicious cycle that depletes groundwater faster than it can be replenished.

**✓** India's water future depends on urgent climate action AND smart conservation starting today

# The Choice Is Ours

Every drop of water you save today is a promise to the future. You are not just a student — you are a water guardian, a climate warrior, and a voice for change.

## Responsibility

Water is not infinite. We must use it wisely and protect it fiercely.

## Unity

One person's action seems small, but millions of us together can change the world.

## Hope

The crisis is real, but so is our power to fix it. Change starts with YOU.

- ✔ Don't just learn about water conservation — LIVE it. Share what you've learned. Inspire your family, friends, and community. Start the Rain Barrel Project at your school. Every action counts.

The future of our planet depends on the choices we make TODAY. Let's make them count.