Water

At Sagar Cements, we are committed to water conservation and have set an ambitious goal of becoming 10x water positive by 2030. Our approach focuses on reducing freshwater dependence through efficient technologies, cascade water use, recycling and rainwater harvesting, supported by a structured water management policy implemented across all our plants.

Key highlights

10,08,493 KL
Total water withdrawn

1,71,344 KL
Recycled water used

9.3%
Reduction in water footprint since last year

3X
Water positive

156 L/t cementitious
Specific fresh water consumption for plants and colonies

Optimising water use across our operations

Water is vital for our operations and for the communities surrounding our plants. Water is one of our material topics. We have adopted the concept of Reduce, Recycle/Reuse and Recharge. We have developed water-harvesting structures and converted mined-out pits into reservoirs to enhance water availability. Water meters are installed across our facilities to monitor consumption, and regular reports are generated to track specific water use.

This year, we have started using the GCCA Water Tool's standardised methodology to accurately measure, and report our water footprint.

Total water withdrawal

	Units	FY 2026	FY 2025	FY 2024
Ground water	kilolitres	3,28,865	3,43,840	2,43,714
Surface water	kilolitres	6,72,733	6,55,048	6,30,198
Water from municipality	kilolitres	6,895	4,076	2,520
Total water withdrawal	kilolitres	10,08,493	10,02,964	8,76,432
Water recycled and reused	kilolitres	1,71,344	1,23,330	1,16,515

Gudipadu Limestone Mine, Andhra Pradesh

CASE STUDY

Robo cleaning technology for solar panels at Gudipadu

To ensure optimal solar power generation while conserving water, the Gudipadu plant implemented automated robo cleaning technology for its solar installation comprising.

The system has significantly improved water efficiency at the plant. Specific water consumption for cleaning panels declined from 0.175 m^3 per table in May to 0.109 m^3 per table in August, representing a 37.7% reduction in water use. Robo cleaning has also enhanced operational consistency by ensuring uniform cleaning across modules, and maintaining panel efficiency even during high-dust conditions.

Robotic cleaning arm for Solar panels at Gudipadu, Andhra Pradesh

Optimising water use and Zero liquid discharge

We follow a Zero Liquid Discharge approach by maximising water reuse and recycling across our operations. At our plants, reject water from the captive power plant (CPP) is reused as process water in cement production, while boiler blowdown is utilised as make-up water for the auxiliary cooling tower. Treated STP water is also used in grinding operations and for plantation through drip and sprinkler systems, achieving absolute zero water discharge. Through these initiatives, we continue to strengthen water security and promote responsible water management across our operations.

Rainwater harvesting

We conducted a detailed assessment across our plants to evaluate the possible locations for rainwater harvesting structures. Rainwater harvesting structures have been developed across all our plants basis this assessment and more than 100 structures have been established across the Company including 3 at Bayyavaram, 11 at Dachepalli, 1 at Jajpur, and 3 at Mattampally along with 52 recharge pits. In addition, Jeerabad operates 14 structures and Gudipadu has 19 recharge pits.

CASE STUDY

Inter-plant training on GCCA water positivity tool

We hosted an inter-plant training programme on the GCCA Water Positivity Tool at the Dachepalli plant. With experts from the Global Cement and Concrete Association (GCCA) India, the programme brought together teams from multiple plants to build a shared understanding of the tool for implementation across plants.

The session covered the GCCA Water Positivity Protocol, including methodologies for calculating water credit, debit and site-level water balance. Participants gained practical insights into applying the tool to improve water accounting, monitoring and conservation initiatives across operations. By strengthening internal expertise and knowledge sharing, the programme supports SGC's broader commitment to responsible water management and its long-term water positivity ambitions.