

Mahindra-TERI Centre of Excellence launches Gurugram Water Sustainability Assessment Report

Real Estate

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- *Gurugram's water requirement expected to reach 874.3 MLD (million litres/day) by 2025*
- *Recommends installed STP capacity of 734.37 MLD by 2025, among other measures*

Gurugram, 28 July, 2021: The Mahindra-TERI Centre of Excellence (CoE), a joint research initiative of Mahindra Lifespaces® and The Energy and Resources Institute (TERI), has launched a report highlighting the potential water challenges in Gurugram. The report was launched at a virtual event attended by Mr. Sanjay Seth, Senior Director, TERI; Mr. Anirban Ghosh, Chief Sustainability Officer, Mahindra Group; and other experts and thought leaders.

Sustainable water use in habitats is one of the key areas of research of the Mahindra-TERI Centre of Excellence (CoE), which aims to develop science-based solutions for India's built environment. The study is carried out using a unique, integrated, 'One Water' methodology that incorporates multiple aspects of water systems - such as storm water, wastewater, and water supply networks - to recommend best practices for holistic urban water management. The Gurugram study highlights the potential water risks faced by Gurugram, including those associated with water sources, governance, infrastructure, and demand & supply.

Dr. Sunita Purushottam, Head of Sustainability, Mahindra Lifespace Developers Ltd., said, “As a pioneer of resource-conscious homes and developments across India, Mahindra Lifespaces® has always prioritized water conservation across its residential and industrial projects. We focus on conservation and rainwater harvesting during the use phase; and the use of curing compound, water audits and recycled water during the construction phase. More than 1 million liters of water are saved annually across our residential projects through water-efficient fixtures and greywater infrastructure, among other initiatives. We hope this report will strengthen awareness of the water challenges facing Gurugram and accelerate strategic action towards water sustainability in the city.”

Mr. Sanjay Seth, Senior Director, TERI said, “The impact of rapid urbanization, climate change coupled with overburdened infrastructure is seeing Gurugram facing recurring floods, water shortages and increased ecological footprint. Adopting eco-friendly substitutes and designs that can track and anticipate change. The report being launched today in the outcome of a study conducted by TERI under the Mahindra – TERI collaboration which aims to analyse the issues involved and suggest possible solutions to overcome these challenges. The study provides innovative and inter-disciplinary strategies for the potential risks both present and future in water management of Gurugram.”

Key report findings:

- Considering the existing urban growth trend in Gurugram district, the built-up area is estimated to increase to **518.8 km² in 2025**, or almost thrice the area in 2007. This can be attributed to its emergence as a major industrial hub, along with the development of residential townships and infrastructure for multinational companies.
- Gurugram’s population is expected to reach **4.3 million by 2025**. The water demand of the city is consequently expected to reach **874.3 MLD**

in the same year.

- Water bodies in Gurugram district* are expected to shrink to an alarming **0.42 km² by 2025**, from **55.2 km² in 2007**.
- The region is likely to experience **an unpredictable pattern of rainfall** over the coming years due to the rapidly changing climate. Earlier, the city used to witness continuous light rains over two-three days that was spread evenly across monsoon months. But over the last decade, the same quantum of rainfall occurs in just 2-3 hours, thus indicating an irregular downpour in the monsoon months.
- Gurugram faces a significant risk of **pollution of its natural waterways**. The quantity of wastewater generated in the district is estimated to increase to **699.4 MLD** by 2025.

Key report recommendations for sustainable water management in Gurugram:

- Propagation and adoption of **water conservation practices** such as rainwater harvesting and wastewater recycling and reuse to meet rising water demand due to rapid demographic changes
- **Developing policies** and **designing measures** towards protecting the region's ecosystems to strengthen both natural and urban water flow systems
- **Strengthening of the water governance structure and administration;** establishing a transparent and participatory mechanism through **capacity building and training programs**
- Designing and implementing **flood resilience measures**.
- Developing **water-efficient infrastructure with new and innovative technologies**

The Mahindra-TERI Centre of Excellence leverages state-of-the art research techniques, tools, and performance measurement solutions to boost the development of green buildings in India. The joint research initiative is working towards developing open-source and science-based

solutions for India's real estate sector.

About Mahindra Lifespace Developers Ltd.

Established in 1994, Mahindra Lifespace Developers Ltd. is the real estate and infrastructure development business of the Mahindra Group, and a pioneer of sustainable urbanisation in India. The Company is committed to transforming India's urban landscape through its residential developments under the 'Mahindra Lifespaces®' and 'Mahindra Happinest®' brands; and through its integrated cities and industrial clusters under the 'Mahindra World City' and 'Origins by Mahindra World City' brands.

The Company's development footprint spans 26.9 million sq. ft. (2.5 million sq. m.) of completed, ongoing and forthcoming residential projects across seven Indian cities; and over 5000 acres of ongoing and forthcoming projects under development/management at its integrated developments/industrial clusters across four locations.

A pioneer of the green homes movement, Mahindra Lifespaces® is one of the first real estate companies in India to have committed to the global Science Based Targets initiative (SBTi). The Company's developments are characterised by thoughtful design and a welcoming environment that enhance overall quality of life for both individuals and industries.

Learn more about Mahindra Lifespaces® at www.mahindralifespaces.com

About TERI

The Energy and Resources Institute (TERI) is an independent, multi-dimensional organization, with capabilities in research, policy, consultancy, and implementation. It has pioneered conversations and action in the energy, environment, climate change, and sustainability space for over four decades.

The institute's research and research-based solutions have had a transformative impact on industry and communities. Headquartered in New Delhi, it has regional centers and campuses in Gurugram, Bengaluru, Guwahati, Mumbai, Panaji, and Nainital, supported by a multi-disciplinary team of scientists, sociologists, economists and engineers, and state-of-the-art infrastructure.

About Mahindra

Founded in 1945, the Mahindra Group is one of the largest and most admired multinational federations of companies with 260,000 employees in over 100 countries. It enjoys a leadership position in farm equipment, utility vehicles, information technology and financial services in India and is the world's largest tractor company by volume. It has a strong presence in renewable energy, agriculture, logistics, hospitality and real estate.

The Mahindra Group has a clear focus on leading ESG globally, enabling rural prosperity and enhancing urban living, with a goal to drive positive change in the lives of communities and stakeholders to enable them to Rise.

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