

June 24, 2021

Toshiba Water Solutions Private Limited

## **Toshiba Receives Japan Construction International Award from Ministry of Land, Infrastructure, Transport and Tourism of Japan**

**Gurugram, India**—Toshiba Water Solutions Private Limited (hereinafter TWS), a wholly owned subsidiary of Toshiba Infrastructure Systems & Solutions Corporation (hereinafter TISS), today announced Japan Construction International Award conferred upon Salori Sewage Treatment Plant in Uttar Pradesh by the Ministry of Land, Infrastructure, Transport and Tourism (MLIT) of Japan. The Design, Build, Operate & Maintain and Transfer of the project and related facilities were undertaken by TWS. The Japan Construction International Award is a recognition of TWS's achievements in the project in terms of Design, Build, Operate & Maintain and Transfer of Salori Sewage Treatment Plant and related facilities in Uttar Pradesh in India.



From L to R: Mr. Kentaro Asahi, Parliamentary Vice-Minister of Land, Infrastructure, Transport and Tourism of Japan, Mr. Takayuki Konno, President and CEO of Toshiba Infrastructure Systems & Solutions Corporation along with His Excellency Mr. Sanjay Kumar Verma, Ambassador of India to Japan.

MLIT established the Japan Construction International Award in 2017. Through this award, MLIT aims to promote global understanding of the Japanese companies' competitiveness and expects more projects to be carried out by Japanese companies. The Japan Construction International Award has become a symbol of "quality infrastructure" which commends (1) overseas construction projects which demonstrate Japan's strengths and (2) small and medium-sized construction companies which play active and leading roles overseas. This is the first such award to be bestowed on Toshiba group.

In 2014, TWS concluded a contract with Uttar Pradesh Jal Nigam (UPJN) for the project undertaken by the Indian government as part of its efforts to clean the Ganges. This project involves the designing and construction of a sewage treatment plant in Salori, Uttar Pradesh, including a main pump station, and a 10-year contract for the O&M of the plant.

TWS was highly regarded by the community for its initiatives towards sewage development, laying a foundation for the continuous participation in government projects, including those for the Ganges.

For this project, TWS offered a kind of activated sludge process called the Sequential Batch Reactor (SBR) process<sup>(\*1)</sup>, which helps to reduce the land area, construction period, and operating costs required while conforming to the Indian government's required standard for the quality of the treated water. For the designing and construction of the plant, TWS also emphasized a reduction in life cycle costs by using easily available and easy-to-maintain equipment.

In addition, TISS and TWS proactively trained local engineers. The Indian engineers and Japanese engineers cooperated as one on the process and cost management, completing the project within stipulate time. The plant has been operating smoothly since its commencement in 2016.

Leveraging the award, Toshiba group will expand its water treatment business in India and elsewhere to establish sustainable water recycling systems and thereby contribute to the creation of environmentally advanced communities.

Project overview



Project name	Design, Build, Operate & Maintain and Transfer of Salori Sewage Treatment Plant and related facilities
Location	Uttar Pradesh, India
Client	Uttar Pradesh Jal Nigam
Construction period	November 2014 to September 2016 (TWS is responsible for 10-year operation & maintenance after the completion of the plant.)
Capacity	Sewage treatment: 14,000 m <sup>3</sup> /day

(\*1) SBR process: A type of activated sludge process for the treatment of wastewater wherein the fill, react, settle, draw, and idle stages occur sequentially in one tank on a cyclic basis



Full view of the Salori Sewage Treatment Plan (including the existing facilities)



Sewage treatment using the SBR process



Website for the Japan Construction International Award

<https://www.mlit.go.jp/ICIA/en/>

Website for the water & environmental solutions of Toshiba Infrastructure Systems & Solutions Corporation

<https://www.toshiba.co.jp/infrastructure/en/social/water-environmental/index.htm>

Website for the Toshiba Water Solutions Private Limited

<https://www.toshiba-water.com/>

### About Toshiba Water Solutions Private Limited:

Toshiba Water Solutions Private Limited (TWS) is an international multi-disciplinary environmental services company, headquartered in India that specializes in providing turnkey services in water and wastewater collection, treatment and disposal. A wholly owned subsidiary of Toshiba Infrastructure Systems & Solutions Corporation (TISS), TWS provides complete, single-source services from engineering and design to construction and installation of water, wastewater and domestic waste treatment facilities.

### About TISS:

Toshiba Infrastructure Systems & Solutions Corporation (TISS) is the core company promoting Toshiba Group's business in social infrastructure. Split off from Toshiba Corporation in 2017, TISS and its group companies promote realization of a reliable products and systems for a sustainable future that is safe and secure, and seeks to improve value for customers with solutions for social and industrial infrastructure, buildings and facilities.

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