

# UP govt to set up STP in Greater Noida based on SBR technology

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**LUCKNOW:** The UP government is establishing a Sequential Batch Reactor (SBR) technology-based sewage treatment plant (STP) in Sector-I, Greater Noida, with a capacity of 45 MLD and an investment of Rs 79.57 crore. The process for selecting agencies and allocating work for this project, which includes establishment, operation, and testing, was already underway, said a government spokesperson.

Additionally, efforts are on to expedite the Ganga Jal Project, by completing electrical, mechanical and civil works across three zonal reservoirs with a capacity of 85 cusecs. This initiative, estimated to cost Rs 11.44 crore, is being managed by the Greater Noida Industrial Development Authority, with a focus on ensuring both quality and timely completion, as per the spokesperson.

This STP will have a capacity of 45 MLD and is expected to be completed within 15 months following the agency's selection and allocation of work. A period of 120 months has been set for the operation and management of the plant.

The agency responsible will first prepare a Site Environment Plan (SEP), ensuring that various environmental standards are met, including monitoring and minimizing air and noise pollution levels. The plant would also function as a water reclamation facility, with a three-month trial period established to assess and implement operational standards, said the spokesperson, adding that additionally, the plant would feature a disposal channel located on the banks of the Hindon River and would utilize solar energy to power its hydraulic pumps.

The plant's sewage output for

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waste management will be collected through a deep gravity outfall sewer, channelling the raw sewage into a receiving chamber. From there, it will be transported downstream to a coarse screen, where contaminants will be removed. After screening, the sewage will enter a wet well to provide adequate hydraulic retention during average and peak flow conditions.

The plant will feature comprehensive flow management systems, including an inlet chamber, fine screening and de-gritting arrangements. The treated sewage will then be directed to Sequential Batch Reactor (SBR) units, which will remove biochemical oxygen demand (BOD), chemical oxygen demand (COD), suspended solids, nitrogen and phosphorus.

The SBR basin will be divided into selection and aeration zones. Operating in a single-stage cyclic/batch mode, the SBR will remove biological organics, nitrify, denitrify and remove biological phosphorus while stabilising waste.

The Greater Noida Industrial Development Authority has outlined an action plan to complete the Ganga Jal Project within 12 months, following the selection of an agency and work allocation. This project focuses on rapidly finishing the electrical, mechanical, instrumental, and other civil works in three zonal reservoirs with a combined capacity of 85 cusecs.