

PPP Contract for Development of an Integrated Wastewater Management System including Sewage Treatment Plants and Fecal Sludge Treatment Plants at Various Zones of Gazipur City through Public Private Partnership

Welcome to an exciting opportunity to participate in a transformative environmental project under the Gazipur City Corporation (GCC). This project is designed to significantly enhance the wastewater management infrastructure of Gazipur, improving public health and supporting sustainable urban development. The GCC, in collaboration with private partners, is committed to deploying advanced solutions to tackle the challenges of urban wastewater, ensuring a cleaner and healthier environment for the residents of Gazipur.

Project Overview

This project involves the development of an Integrated Wastewater Management System for Gazipur City, employing a Public-Private Partnership (PPP) model based on the Design, Build, Finance, Operate, and Transfer (DBFOT) framework. Here are the key features of the project:

- **Investment Size:** Approximately US\$80 million is allocated to implement the project comprehensively.
- **Capacity:** The system includes a main sewage treatment plant with a capacity of 250 million liters per day (MLD), capable of serving significant portions of the city.
- **Contract Period:** The project will span 20 years, during which the private partner will manage the operations before transferring the system back to the Gazipur City Corporation.
- **Infrastructure Scope:** The initiative includes constructing and maintaining a network of sewage lines and fecal sludge treatment facilities strategically placed across different zones of Gazipur to maximize efficiency and coverage.

Benefits and Impact

This project is poised to deliver substantial benefits and positive impacts for the Gazipur community and its environment:

- **Public Health Improvement:** By effectively managing and treating wastewater, the project will significantly reduce the prevalence of waterborne diseases, enhancing the overall health of the population.
- **Environmental Enhancement:** The advanced treatment processes will minimize the release of untreated wastewater into local water bodies, thus protecting the aquatic environment and biodiversity.
- **Economic Growth and Job Creation:** The construction and ongoing operation of the wastewater management facilities are expected to generate numerous jobs, contributing to local economic growth.
- **Sustainable Urban Development:** This project is a key component in Gazipur's strategy for sustainable urban development, ensuring that infrastructure keeps pace with rapid population growth while adhering to environmental standards.
- **Community Engagement and Education:** Alongside infrastructure development, the project aims to engage with the community through educational programs on water conservation and sanitation practices, fostering a culture of sustainability.

Implementation Strategy

The implementation of the Integrated Wastewater Management System is carefully planned to be efficient and effective, covering various zones of Gazipur City. The strategy includes:

- **Zonal Distribution:** The project is divided into specific zones, each equipped with tailored wastewater treatment solutions based on population density, infrastructure needs, and environmental considerations.
- **Infrastructure Development:** Construction of five main sewage treatment plants (STPs) and six fecal sludge treatment plants (FSTPs), with a cumulative treatment capacity of 75

million liters per day (MLD). This includes comprehensive sewage and sludge management facilities to cater to different urban and suburban areas of the city.

- **Technology Application:** Use of Sequencing Batch Reactor (SBR) technology, selected for its efficiency in varying load conditions, and flexibility to adapt to future technological advancements.
- **Modular Implementation:** FSTPs will be implemented on a modular basis, allowing for adjustments based on on-ground assessments and evolving needs of the city.
- **Infrastructure Investments:** The project also involves the development of approximately 198 kilometers of sewage network, ensuring extensive coverage and accessibility.
- This strategic approach ensures that the project not only meets current needs but is also adaptable to future growth and changes within Gazipur.



Investment Opportunities

The Gazipur Integrated Wastewater Management System presents a lucrative opportunity for investors interested in sustainable infrastructure development. Potential investors can contribute to a pioneering environmental project with a robust financial model:

Financial Incentives

Competitive returns on investment facilitated through a transparent Public-Private Partnership (PPP) model.

Operational Partnership: Opportunities for long-term operational contracts with the Gazipur City Corporation, offering stable revenue streams over the 20-year contract period.

Risk Mitigation: The project design includes measures to mitigate risks associated with construction, operation, and maintenance, ensuring investor confidence.

Community Impact: Investors have the unique opportunity to make a significant impact on the health and environmental sustainability of a growing urban area.

Government Support: Strong backing by local government entities ensures regulatory support and facilitates smoother project execution.

Closing

We invite interested parties to explore this exceptional opportunity to participate in the Gazipur City Corporation's commitment to enhancing urban life through innovative wastewater management solutions. This project not only promises significant economic returns but also contributes to the social and environmental development of Gazipur. For more details and to discuss potential involvement, please reach out to the project coordination team at GCC. Join us in shaping a sustainable and prosperous future for Gazipur.