

Government of the People's Republic of Bangladesh
Host and Rohingya Enhancement of Lives Project (HELP)
Department of Public Health Engineering (DPHE)

Terms of Reference (TOR)
Position: Structural Engineering Consultant
Package no. SD-9

Background

The Government of the People's Republic of Bangladesh (GoB) has received a grant and credit from the International Development Association (IDA) to finance the Host and Rohingya Enhancement of Lives Project (HELP). The project is being implemented by the Department of Public Health Engineering (DPHE) under the Ministry of Local Government, Rural Development, and Cooperatives (MLGRD&C).

The Project Management Unit (PMU) is tasked with overseeing the project to ensure that funds are utilized efficiently, exclusively for their intended purposes, and in full compliance with the Borrower's obligations. To support effective Structural Engineering issues, DPHE intends to allocate a portion of the grant and credit to engage a Structural Engineering Consultant, in accordance with the World Bank Procurement Regulations.

Objective

The main objective of the consultancy is to support the PMU and RPMU, DPHE with structural Engineering Services, providing technical expertise and guidance to ensure the successful structural design, analysis, and implementation of WASH facilities particularly as it relates to identifying defects and offering solutions to correct these deficiencies

Key tasks/responsibility

- Review and provide support in finalizing structural designs of WASH facilities as necessary in the project, including piped water supply schemes, community water options, household toilets, community latrines, public toilets, integrated waste management systems etc.
- Ensure designs meet safety, durability, and sustainability standards while being aligned with the project's objectives and the latest building codes and standards.
- Oversee the implementation of structural designs during the construction phase, ensuring adherence to approved plans and quality standards.
- Monitor construction progress and address structural issues as they arise.
- Conduct on-site inspections to confirm that work aligns with design specifications and safety requirements.
- Identify structural defects or inconsistencies during or after construction.
- Provide expert recommendations and corrective measures to address identified deficiencies effectively.
- Collaborate with the PMU, RPMU, design and supervision consultants and contractors, and other stakeholders to:
 - Ensure cohesive interpretation of construction drawings.
 - Align structural designs with architectural and electro-mechanical plans.
 - Resolve discrepancies or challenges during project execution.



- Prepare detailed reports on structural design reviews, defect analyses, and construction monitoring activities.
- Document lessons learned and best practices for future reference and use in similar projects.
- Ensure designs incorporate energy-efficient, sustainable and climate resilient practices, including considerations for local environmental and social factors.
- Address challenges related to site-specific conditions, such as geotechnical constraints, seismic considerations, and water table variations.
- Any other official task given by Authority.

Key Qualifications and Responsibilities

Educational Qualifications and Professional Experience of the Consultant are:

a) Educational Qualification:

Minimum BSc. in Civil Engineering from any reputed recognized university. Master of Civil Engineering in Structure will get preference.

b) Experience:

- A minimum of 10 years of professional experience in the structural design and planning of infrastructure projects, including WASH facilities, energy-efficient building structures, and facilities in government, semi-government, or donor-funded development projects.
- At least 5 years of working experience in the World Bank/ADB or other development funded project as Structural Engineering Consultant.
- Should have Structural Engineering based software like ETABS, SAP2000, SAFE and AutoCAD.
- Experience on supervision and monitoring of high-volume construction and WASH related facilities.
- Should have practical experience on large scale sewage and drainage structure
- Possess strong working knowledge of architectural design, estimation, and preparation of specification of materials and work methodology;
- The incumbent shall be responsible for ensuring that the designs are correctly prepared and reported;
- S/he shall have an extensive knowledge in building design and analysis work;

Duration of the Assignment

The Consultant shall perform the Services for 42 months or project closing date, whichever is earlier. However, the duration will depend on performance of the individual in this position

Reporting Obligations

- Necessary Reports as mentioned in Scope of Works;
- Monthly Activity Report;
- Assignment completion report;
- Any other reports as required by PMU.

Institutional Arrangement

The Consultants will work at PMU, Dhaka under direct control of the Project Director. S/he will report directly to the Project Director with close collaboration with other officials of the project.



The consultant shall be accountable to the Project Director for his day-to-day activities. The Consultant might have extensive field visit in Project field office. The PIU will provide necessary assistance (like office accommodation, computer, logistic services, consumables and other things or related services) to the Consultant in carrying out his/her scheduled activities under the project. The PIU will also provide necessary assistance to carry field trips - when necessary.

Source of Funding:

The project is jointly financed by the Government of Bangladesh (GoB) and the International Development Association (IDA).

Mode of Payment:

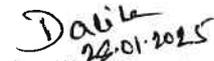
Payments will be made on a monthly basis, subject to the submission of a valid invoice by the consultant.

Ownership of Materials:

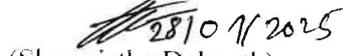
All reports, drawings, and designs created or prepared by the consultant shall be the sole property of the Project.

Selection Method:

The consultant will be selected and contracted in accordance with the "Individual Consultant (IC) – Open" selection method outlined in the World Bank Procurement Regulations for IPF Borrowers, as updated in September 2023.


24.01.2025
(Dalila Afroze)

Executive Engineer, Arsenic Management
Division &
Member, ToR Committee, DPHE.


28/01/2025
(Sharmistha Debnath)

Executive Engineer, Design Division &
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28/01/2025
(Mohammed Anwar Eusuf)

Superintending Engineer, Planning Circle &
Member, ToR Committee, DPHE.


28/1/25

(Md. Shafikul Alam)
Executive Engineer, Ground Water
Division &
Member, ToR Committee, DPHE.


28/01/2025
(Shishir Kumar Biswas)

Executive Engineer, SIR Division &
Member Secretary, ToR Committee,
DPHE.


28/1/25
(Noor Ahmed)

Project Director, DPHE
Host and Rohingya Enhancement of Lives
Project (HELP) &
Convener, ToR Committee, DPHE.

Approved


28/2/2025
Tushar Mohon Shadhu Khan
Chief Engineer
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Govt of Bangladesh, Dhaka.


28/01/25
(Bidhan Chandra Dey)

Superintending Engineer, Ground Water
Circle, Project Director &
Convener, ToR Committee, DPHE.