

Bangladesh Municipal Water Supply and Sanitation Project (BMWSSP)
Terms of Reference (TOR)
Consultant's Position: Senior Water Supply Consultant
Package No. S - 7

A. Background

Government of Bangladesh through the Department of Public Health Engineering (DPHE) had been implementing provision of safe and sustainable water services under different Project mainly in rural Bangladesh. DPHE has taken a World Bank financed Project for strengthening the WSS services delivery system along with infrastructure development at secondary town level / selected municipalities. Project aims to address capacity deficits by: (i) infrastructure provision and operationally sustainable services delivery by private sector; (ii) institutional capacity strengthening of municipalities to enable them to play increasingly central roles in planning and supervision of services delivery by private sector; and (iii) strengthening DPHE to focus more on policy and facilitation roles (away from direct infrastructure provision).

The Project's approach is part of the national law and policy to devolve water and sanitation responsibilities to the local governments in order to ensure sustainability and cost-effectiveness. It directly supports the SDP target of improved services (with piped water and fecal sludge management) in municipalities, along-side strengthening institutional capacities of municipalities to provide universal access to improved water and sanitation services in a financially sustainable manner. This involves changing mindsets and operating principles and developing the private sector. In addition, efforts will be made towards identifying opportunities for women to increase their participation in planning and implementation of water supply and sanitation services, expand their employment opportunities, and promote their safety.

Project Management Unit (PMU) will be responsible for implementation and supervision of works headed by Project Director and with adequate staffing along with experienced Consultants.

B. Rationale/Objective

The complexity and magnitude of the activities under the proposed BMWSSP, DPHE would need a dedicated and experienced Senior Water Supply Consultant who will provide technical assistance and support to the PMU. The Consultant will help ensure that the water supply-related activities and obligations under the Project are implemented smoothly and orderly.

C. Key Tasks/Responsibilities

The Consultant shall perform, but not limited to, the following tasks/responsibilities:

- C1. Revise or adjust (where necessary and appropriate) the process/hydraulic design of water supply system to retrofit actual field conditions during project implementation. This includes hydraulic analysis of the water transmission and distribution network using available and acceptable software's, such as Water GEMS, Epanet, among others, based on the demand responsiveness.

- C2. Supervise and provide guidance to all the activities related to engineering design and construction of the water supply system. The task includes redesign/retrofitting, where necessary, of water sources (production wells and/or intake for surface water); appropriate treatment process or technology; pumping station and related facilities; storage facilities; transmission and distribution pipe networks and appurtenances; and service connection to consumers.
- C3. Assist the Project Director in decision-making and in addressing issues related to Project implementation and in oversight monitoring of field/sub-project activities, including the review & confirmation of quantity and quality of works.
- C4. Provide guidance and monitoring of activities of other consultants aiding the Technical Support Unit to ensure effective and efficient performance as well as strict adherence to specifications and quality of works.
- C5. Prepare sub-project appraisal reports with support from other specialists.
- C6. Assist the Project Director in ensuring that the Project and the sub-projects are implemented in accordance with the Project Implementation Manual, the Project Appraisal Document, the Loan Agreement, as well as related operational policies of the World Bank.
- C7. Assist the PMU in reviewing/evaluating reports and other related documents and support Project Director carrying out decisions relevant to critical O&M arrangements and needs of the project.
- C8. Attend meetings/workshops and coordinate with the other specialists/consultants who will be involved in analysing, designing and supervising the water supply and sanitation facilities.
- C9. Assist the PMU in other related tasks activities that the Project Director deem necessary in implementing the Project smoothly and orderly.

D. Key Qualifications of the Consultant

The Sr. Water Supply Consultant shall have the following minimum qualifications:

a) Educational Qualification

- Master's degree in Water Supply Engineering/Sanitary Engineering / Environmental Engineering/Master's degree in relevant field with Bachelor degree in Civil Engineering.

b) Experience

- At least 15 years experience in planning; designing and implementing large-scale water supply projects, of which at least 5 (five) years' experience in piped water supply sector especially in Bangladesh or its adjoining regions.
- Strong and relevant experience in the sector; capable of interpreting hydrogeological assessments; performing hydraulic analysis and design of pipe networks (transmission and distribution) using computer-aided software (Water GEMS/EPANET, etc.).
- Familiarity and working experience in preparation of treatment processes/ hydraulic design of water supply system.

- Strong experience in construction supervision of water supply system (from water source to house connection).
- Familiarity and good understanding of the national water policies, National Arsenic Mitigation Policy and WB's Social and Environmental Safeguards are desired.
- Working experience with donor-assisted government projects, as well as with national and local bureaucracy.
- Fluent in English, both oral and written.
- Competent in technical report writing.
- Age must be within 55 years.

E. Duration of the Consultant's Assignment

The duration of the assignment will be throughout the project's duration of 48 months or project closing date, whichever is earlier. But it may be extended as per requirement of the project. However, this will depend on performance of the individual in the position.

F. Institutional Arrangement

The Consultants will work 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.

G. Remuneration

The Consultant fee will be negotiated based on the consolidated remunerations, inclusive of all applicable Taxes and VAT as per existing laws of Bangladesh. Payment shall be made monthly based on satisfactory performance or output certified by the Project Director.

H. Reporting Obligations

- I. Monthly Activity Report
- II. Quarterly Summarized report
- III. Final Report
- IV. Any other reports as required by PMU.

I. Method of Hiring the Consultant

The Consultant will be hired and contracted in accordance to the "Individual Consultant (IC)" Selection method of World Bank Procurement Regulations (PR), July2016 (Revised November 2017).