

Government of the People's Republic of Bangladesh
Department of Public Health Engineering (DPHE)
Research and Development Division

**Terms of Reference (ToR) for the engagement of Individual Consultant in the WATA
implementation project supported by UNICEF, Bangladesh**

Package No: RND/WATA/24-25/PC-001
Position: Program Coordinator
Duration: 9 months from contract signing
Location: DPHE Headquarter, Dhaka with frequent field visits to WATA implementation sites
Reporting to: Research and Development Division, DPHE

1. Background:

Bangladesh faces significant challenges in ensuring safe drinking water due to contamination from biological and chemical pollutants. It is fact that chlorine is the mostly utilized and useful disinfectant for safe water supply although ensuring a steady and locally available source of chlorine is critical for disinfection, particularly in remote and disaster-prone areas. Moreover, traditional chlorine supply methods are often unreliable due to logistical constraints and degradation of chemicals over time.

In this context, WATA technology offers a decentralized solution, enabling local chlorine production and improving the resilience of water supply system of Bangladesh. WATA is a cost-effective, sustainable solution for producing active chlorine through electrolysis of salted water, which helps disinfect drinking water and maintain hygienic conditions in health structures, schools, and waste management plants. WATA technology ensures safe and reliable chlorine production at the point of use, addressing challenges in accessing disinfectants in remote and vulnerable communities.

The Department of Public Health Engineering (DPHE) is piloting WATA technology at 10 different sites across Bangladesh to improve water quality in Bangladesh. To ensure the successful execution of this pilot project, a project coordinator (consultant) is required. This consultant will be responsible for coordinating implementation activities, engaging with stakeholders, overseeing water quality assessments, and ensuring that the WATA technology is effectively integrated into targeted communities. Given the complexity of multi-site deployment and the need for continuous monitoring, the consultant will play a crucial role in achieving the project's objectives.

2. Objectives of the Assignment:

- To coordinate and oversee the successful implementation of WATA technology at selected sites.
- To monitor water quality improvements through the application of WATA technology.
- To arrange training and awareness program on WATA technology usage.
- To document and report project progress and lessons learned.

3. Scope of Work:

- Conduct preliminary site assessments and site selection.
- Oversee WATA device distribution and installation.
- Monitor and evaluate water quality before and after chlorination.
- Arrange training workshops for DPHE personnel and stakeholders on WATA usage.

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- Integrate water quality data into the web-based platform known as AQUAWATCH (www.aquawatch.dphe.online) developed by Research and Development Division, DPHE.
- Engage with relevant authorities, DPHE, UNICEF, and stakeholders.
- Prepare monthly progress report and final implementation report.

4. Deliverables and Timeline:

The deliverables and timeline outline the key milestones for the WATA implementation, ensuring structured execution and timely completion. The table below summarizes the major deliverables along with their corresponding timelines.

Table 1 Deliverables and Timeline

Sl.	Deliverables	Timeline
D1	Inception report, Budget and financial plan	Month 1
D2	Site assessment and selection	Month 2
D3	Training sessions arranged and completed	Month 3-6
D4	WATA installation and piloting	Month 3-6
D4	Water quality monitoring reports	Month 3-9
D5	Follow up and oversee WATA functionality along with reporting	Month 3-9
D6	Monthly progress report	Each Month
D7	Final Reporting	Month 9

5. Qualifications & Experience:

The minimum qualifications and experience criteria are outlined in table below.

Table 2 Qualifications and Experience Criteria

Sl.	Qualification Areas	Qualification Criteria
1	Education	At least Master's in Environmental Science/ Civil Engineering/ Water Resources Engineering/ Chemical Engineering/ Applied Chemistry/ Public Health, or related field.
2	Experience	Minimum 5 years' experience in WASH projects and water quality management.
3	Technical Skills	Knowledge of chlorination, water disinfection, project coordination, and stakeholder engagement.
4	Communication Skills	Excellent verbal and written communication skills in both English and Bengali.
5	Reporting & Analysis	Experience in data analysis and reporting.

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6. Facilities to be provided:

Office space, equipped with basic furniture and utilities (electricity, water, internet), will be provided at the CR-WASH Project office (DPHE)/ the Research & Development Division, or another suitable location as available. However, transportation to and from the office will be the responsibility of the consultant.

7. Contract and Payment Terms:

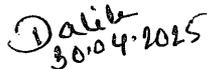
- Payment will be made in equal monthly installments based on the deliverables mentioned in Table 1.
- The consultant will be responsible for the payment of all incurred taxes as per government regulations.

8. Duration of the Assignment:

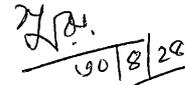
- 9 months from the date of contract signing.

9. Reporting:

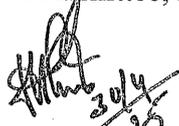
- The consultant will report to the Research and Development Division, DPHE along with UNICEF Bangladesh.
- Regular updates will be provided to the Project Director of Climate Resilient Water Supply Sanitation & Hygiene (CR-WASH) Project, DPHE.


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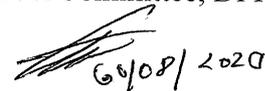
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Executive Engineer, Arsenic Management
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Member, ToR Committee, DPHE.


30/08/2024

(Dr. Sushanta Roy)
Executive Engineer
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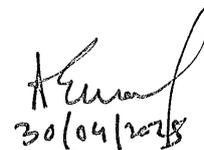
(Md. Shafikul Alam)
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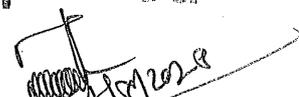

30/04/2025

(Shishir Kumar Biswas)
Executive Engineer, SIR Division &
Member Secretary, ToR Committee, DPHE.


30/04/2025

(Mohammed Anwar Eusuf)
Superintending Engineer, Planning Circle &
Member, ToR Committee, DPHE.

Approved


30/04/2025
Tushar Mohon Shaikh Khan
Chief Engineer
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MR


30/04/2025

(Bidhan Chandra Dey)
Superintending Engineer
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