# CALL FOR EXPRESSION OF INTEREST (EOI)

## Develop environmentally friendly STP and sludge management option for Maldives

### 1. Purpose
The purpose of this expression of interest is to hire a company/firm/institution to support WHO Maldives and Ministry of Health to conduct feasibility study to develop environmentally friendly sustainable sewage treatment and sludge management options for the islands of Maldives.

### 2. Background
Sanitation facilities developed in most of the islands lack proper sewage treatment options due to high operation, maintenance, and management cost. As a result, the sewage generated in most of the islands is collected and discharged directly to the sea, which poses significant risks to coral reefs, beaches and the marine ecosystems surrounding the islands. Most of the islands without a sewage network use septic tanks and soak-pits for the sewage disposal. The damage caused to the household septic tanks resulted in contamination and deterioration of the fresh water aquifer. Therefore, the island communities have been facing the problem of groundwater contamination.

The need and requirement for conducting a feasibility analysis to develop environmentally friendly - sustainable sewage treatment with sludge management options in the islands of Maldives is also highlighted in the National Water and Sewage Strategic Plan (2020-2025). Hence, Government of Maldives represented by Ministry of Environment, Climate Change and Technology intends to use funds from World Health Organization (WHO) to evaluate existing installed sewage treatment plants and sludge management facilities at different categories (inhabited islands (small, medium, large population islands), tourism, industrial commercial establishments) and introduce an environmentally friendly - sustainable sewage treatment options of low operation, maintenance and management cost with proper sludge management.

### 3. Detailed statement of work to be performed (TOR)

**Objective:** The objective of this assignment is to conduct a feasibility analysis to evaluate existing installed sewage treatment plants and sludge management options in different categories (inhabited islands (small, medium and large population islands), tourism, industrial commercial establishments) and provide environmentally friendly - sustainable sewage treatment options of low operation, maintenance, and management cost with proper sludge management.

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<th>MAJOR TASKS</th>
<th>DETAILS</th>
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<tr>
<td>1.0 Phase 1A - Inception Report</td>
<td>Baseline assessment of existing management STPs and sludge management facilities on focus islands of the different categories Comparative analysis of the existing operations</td>
<td>Phase 1A – Inception Report</td>
<td>60 days from Contract Sign</td>
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### 2.0 Phase 2 – Proposal of Environmentally friendly sewage treatment and sludge management options

| Detailed analysis of proposed STPs
| Detailed analysis of proposed sludge management options
| Phase 2A – Conceptual design report of the proposed STP
| Phase 2B – Conceptual design report of proposed sludge management options
| Phase 2C – Develop tariff structure and strategy to recover O&M cost
| 80 days from activity 1.0 |

### 4. Specific requirements

#### Qualification and Experience

To be eligible for the selection of this assignment, the Consultancy firm should consist of two experts, that is an Environmental/Water & sewerage expert and a Legal expert as a translator.

Environmental expert/Water & sewerage expert is expected to have the following qualifications and experience:

- Minimum Bachelor’s degree in, the field of Environmental Science, Management studies, Urban Planning, water resources, Environmental Engineering, Social Safeguard or related field.
- Experience in working with government sector, donors and international agencies will be an added advantage.
- Demonstrated experience in preparing National Reports, Surveys and Plans would be an asset.
- Sound knowledge / experience of Environment, Water and Sewerage sector will be an advantage.
- Experience in environment regulation development would be an added advantage
- Ability to work in a team and effectively work to achieve the project objectives and expected outcomes.
- Proficient with the usage of Microsoft Office applications, such as MS Words, MS Excel, MS and Power Point.
- Good communication and interpersonal skills.
- Fluency in Dhivehi and English language.

#### Language requirements:
- English and Dhivehi – fluency

### 5. Expected Outcomes/Deliverables
Under the Consultancy Services to Conduct a Feasibility Study to develop Environmentally Friendly-Sustainable Sewage Treatment and Sludge Management Options for the islands of Maldives, below outputs are expected to be achieved:

- Inception report. Baseline assessment of existing STPs and Sludge management options
- Conceptual design report of the proposed SIP and sludge management options

6. Timeline

- December – April 2023

7. Application

Interested companies/firms/institutions are requested to submit their CVs/profiles along with a proposal (including technical/financial details) for the project to sewhomav@who.int by 18th November 2022. For more information and clarifications, please contact hudhaf@who.int.

Note: This EOI is not open to individual consultants