



TERMS OF REFERENCE OF ENGINEER

1. Purpose:

The Government of the Republic of Maldives has received financing (loan assistance) from French Development Agency (AFD) and is working on a project entitled “*Maldives tsunami infrastructure rehabilitation project*” and intends to apply part of the proceeds towards procuring the Services of an **Individual Consultant** – Engineer to provide technical support to develop and implement projects related to improving access to safe Water and Sanitation.

2. Background:

Maldives is a small island nation with fragile environment and scarce water resources. Its population of over 30,000 is thinly dispersed over 198 islands out of total 1192 islands, the remaining being uninhabited. There are practically no surface water sources and the limited ground water is vulnerable to salinity ingress and contamination from indiscriminately discharged waste water. The wide and uneven distribution of population and vulnerable water resources pose many challenges to the provision of basic services such as access to water and sanitation. Rainwater harvesting and desalination of sea water are practiced on large scale to augment water resources and meet with the increasing water demand.

3. Need for an engineering consultant:

The Ministry of Housing and Environment (MHE) in the Government of Maldives, is undertaking improving access to Safe Water and Sanitation in the islands. However in view of its limited technical staff and lack of experienced hands to cope with such projects, the Ministry is looking for a project engineer of international repute to provide consultancy services.

4. Major duties and responsibilities:

The incumbent shall be a technical team leader assisting the Ministry (MHE) in providing technical inputs during the period of assignment is outlined below.

- Visit project sites and inspect the civil works of the water supply and sewerage projects and give site specific suggestions where necessary

- Assist in designing water supply and sewerage systems in the islands and preparation of bid documents, contract documents and technical reports.
- Assist MHE in carrying out feasibility assessments and scoping support required for sustainable management of community water supply and sanitation services.
- Assist the staff during field surveys and site visits and provide guidance to the staff in carrying out the works effectively.
- Assist in the tendering process.
- Assist the Ministry (MHE) in developing and reviewing proposals, concept and designs pertaining to water and sewerage projects and provide necessary comments and suggestions.
- Organize orientation training workshops for the staff on all aspects of the project related work. Facilitate technical meetings related to projects on hand. Undertake capacity building programmes to enhance skills and competencies of MHE staff including but not limited to (a) *design and evaluation of water supply and sewerage systems* (b) *contract negotiations / evaluation* (c) *preparation of bid / contract documents* (d) *project management & monitoring* and (e) *empowering local communities to operate and maintain the systems in sustainable manner*.
- Review the operation and maintenance manuals submitted by the contractors; and provide guidance where necessary in establishing operation and maintenance procedures for water supply and sewerage systems in consultation with MHE and the island communities.
- Undertake other technical tasks as required by the MHE from time to time.
- Train at least two (02) staff from the sector to the level of Project Manager.

5. Qualifications:

- The applicant should possess following educational background and experience.
 - A Bachelor degree or higher in civil or environmental engineering with water supply and sanitation elective subjects.
 - Minimum ten years field experience of designing and implementing water supply and sewerage projects.
 - Previous experience in working with International Agencies will be an advantage.
 - Working experience in municipal projects will be an advantage
 - Experience of executing /operating rainwater harvesting/desalination/ground water recharge projects will be an asset
 - Should possess sound knowledge of computer aided design software/applications
 - Should have excellent command over English with proven communication and, presentation and negotiation skills
 - Should be capable of providing leadership, motivation and training to the staff and stakeholders

- Preference will be given to a person having experience of working in Maldives

6. Reporting Requirements

The consultant is required to submit a Monthly report at the end of each month in a format agreed with MHE representative. At the end of each quarter a consolidated report (Quarterly Report) summarizing the activities including training conducted of the months preceding shall be submitted in place of the monthly report

7. Other related information:

- Contract period : 1 year
- Duty station : Male', Maldives with frequent visits to the islands
- Type of appointment : Full time
- Whom to report : Director General of Water and Sanitation Department, MHE.
- Salary : Consolidated. Negotiable depending on the qualifications and experience
- Annual leaves : 15 days leave in one year
- Health insurance : Candidates own responsibility.