

Terms of Reference

for

JUNIOR CIVIL ENGINEER OF WATER SUPPLY & SANITATION FOR AIAS - GAZA

1. Purpose

The purpose of these Terms of Reference (TOR) is to describe the assignment of the Junior Water & Sanitation Engineer position for Water and Sanitation Infrastructures Management Board (Administração de Infra-estruturas de Água e Saneamento - AIAS), funded by the World Bank (WB) Emergency Resilient Recovery Project. As part of the WB project team, the Junior Water & Sanitation Engineer will work as the technical support for addressing the implementation of the water supply rehabilitation project of the Chicualacuala and Funhalouro small towns in Gaza and Inhambane provinces, respectively.

2. Background

The Government of Mozambique (GOM) is currently implementing a capital investment program in water supply and sanitation, rehabilitating major infrastructures, including treatment facilities, pumping stations, transmission mains, and distribution networks in major urban areas as well as in medium sized cities and towns throughout the country. To meet this objective, new institutions are being created to assist in the development of this sub-sector and faster the decentralization and deconcentration processes. While physical rehabilitation and expansion of the various infrastructures is a major step in the process of developing the sector, the Government also recognizes the importance of providing adequate support to the operation of these newly rehabilitated systems. The Government is keen to align policy and institutional development with capital investment. The GOM has created AIAS which is responsible to oversee development on water supply in medium-sized cities and towns and sanitation in all urban centers, by ensuring involvement of private sector and autonomous entities in some cities

and towns at first stage toward a sustainable service which, once successfully piloted, will be rolled-out to all urban centers and thus complement investments already done.

Thus, the Government mobilized financial resources and created an emergency program as to deal with emergency works because of the extreme flooding occurred late in January and February of 2015. One of the sub-component of the emergency program, will focus on fixing and upgrading the intake of the Mocuba drinking water supply system, which is currently located in the Lugela River and is highly vulnerable to shocks during both the rainy and dry seasons.

However, due to the droughts that affected the southern and central parts of Mozambique in 2015 and 2016, the Government of Mozambique made a request for an additional fund to address the resulting critical emergency in specific areas. It was within this context that an additional fund of US\$ 5.5 Million was approved for the rehabilitation of the Chicualacuala and Funhalouro Water Supply Systems in Gaza and Inhambane Provinces.

This Terms of Reference (ToR) are for the procurement of a Junior Civil Engineer which will have as the main task of assisting AIAS's team in the implementation of the project. This position will be based in AIAS headquarters in Maputo with regular site visits to both small towns.

2.1. Rehabilitation of Water Supply Systems

The objective of this component is to support the physical rehabilitation of the components that are part of the water supply systems of the Chicualacuala and Funhalouro small towns. This will be achieved through interventions to be made in the intake, mainline, treatment plant, reservoirs up to the distribution network. To achieve this broader objective, the following activities will be carried out:

i) Detailed designs and tender documents for the rehabilitation and extension of the Chicualacuala and Funhalouro Water Supply Systems

Water supply in these two small towns has been always challenging and based in sparse water source alternatives mostly through boreholes connected to stand pipes. However, the major problem has always been the lack of surface water sources near the two small towns and the fact

that the groundwater sources have Electrical Conductivity values far above the ones recommended by World Health Organization for drinking purposes.

Therefore, the main objective of the detailed design is to carry out a conceptual study which will identify water supply options for the small towns and recommend the most economic and sustainable alternatives to be further investigated in the detailed design phase for a project horizon of 20 years from the date of commissioning of the system. This component includes tender documents for the rehabilitation and expansion of the water supply systems of the two small towns.

ii) Civil works of rehabilitation and extension of the Chicualacuala and Funhalouro Water Supply Systems

After the detailed design and tender document phase, a tender will be launched for the construction works. The construction works are expected to have a duration of between 12 and 14 months and will take place simultaneously in the two small towns.

3. General Scope of Responsibilities

The Junior Water Supply & Sanitation Engineer, will be responsible for the follow up of AIAS Project Portfolio under the addition fund (Chicualacuala and Funhalouro components) for the Emergency Resilient Recovery Project for the Northern and Central Regions. This position reports to AIAS through AIAS Head of Control, Operations and Technical Assistance Department (DCOAT), and will be based in Maputo with regular site visits to Funhalouro and Chicualacuala.

3.1. Duties:

- Oversee the overall implementation of water and sanitation projects, and support AIAS in monitoring the implementation of environmental and resettlement plans;
- Contribute for the development and regular update of Implementation Plans, Work Plans, and Financial Plans for the project;

- In coordination with AIAS Head of DCOAT, manage the project schedule and budget, monitor and report on the physical and financial progress of the works undertaken by the consultants and contractors on quality of goods, works, and services provided;
- Participate in project's progress meetings with the relevant parties;
- Contribute in provision of key reports and documentation needed by AIAS for implementation, ongoing monitoring of performance of AIAS responsibilities described in the implementation agreement, timely review and coordination on all elements of the Work Plan;
- Verify that all the Contractors have obtained all necessary environmental permits including, but not limited to permits required for work camps, quarry operations, waste disposal sites, borrow pits, and blasting activities;
- Provide technical assistance to AIAS (headquarters and delegations) in any technical assistance if necessary.
- Other duties related with project scope of works as allocated by AIAS Head of DCOAT.

4. Qualification and Experience

- University degree, Civil or Hydraulics Engineering or all together, with recognizable experience in design, contract management and other relevant activities in the field of water and sanitation;
- At least 5 years working experience in water supply and sanitation;
- Knowledge in planning, design and supervision of projects;
- Excellent reporting and writing skills;
- Language Proficiency – fluent in Portuguese and good English skills;
- Less than 35 years old.

5. Deliverables

The consultants must present the following reports. The reports must be presented to AIAS Head of Control, Operations and Technical Assistance Department who will provide feedback and approval.

Deliverables	Frequency
Updated Implementation Plans,	Monthly, Quarterly and Annually
Comments on the Progress Reports of the detail design phase	As required
Comments on the Progress Reports of the Supervision of construction works	As required
Supporting documents and Reports required for projects implementation, monitoring of performance in compliance with specific safeguards defined in the project agreement	As required

6. Duration

The contract will have overall duration of 1 year, with possibility to be extended up to the end of the project, depending on the performance of the consultant under evaluation on annual basis.