

## **Terms of Reference for Resident Engineer for the Construction of Transmission System from Laasdhure Aquifer to NGDPS, Hargeisa Water Agency (HWA)**

### **1. Background to SDF2**

The Somaliland Development Fund (SDF) was established in 2012 to provide a single vehicle through which development partners could support Somaliland's development goals. The first phase of the SDF was implemented in 2013-2017 and supported the Government of Somaliland (GoSL) filling a critical gap through funding projects that are fully aligned to the National Development Plan (NDP) while at the same time recognizing the role of GoSL in the delivery of basic services.

The Somaliland Development Fund – Phase 2 (SDF2) covers the period 2018-2024. SDF2 is conceived as an inclusive economic development programme. It supports the GoSL in delivering infrastructure that is relevant for inclusive economic development. It focuses on sustainable investments that spur job creation and fast growth, while at the same time laying the foundation for long-term resilience and development, leading to a more stable and peaceful Somaliland. SDF2's ambitions are fully aligned with government priorities as defined in Somaliland's second National Development Plan (NDP2 – 2017-2021) and reflect the priorities set out in Somaliland Vision 2030. The Fund Manager is responsible for the day-to-day management and administration of the Fund.

The objectives of the SDF2 are threefold:

- Support increased inclusive economic growth through investment in productive, strategic infrastructure to enhance economic growth and revenue generation.
- Strengthen and maintain the capabilities of the government of Somaliland to prioritize and manage the sustainable and equitable development of Somaliland's infrastructure.
- Support strong government ownership of development priorities aligned with the National Development Plan.

### **2. SDF Funded Hargeisa Water Agency Project**

The SDF has allocated funds to Hargeisa Water Agency to implement the Increasing Water Production from Laasdhure Aquifer and Connecting to Existing System at New Geed Deeble Pumping Station (NGDPS) Project. The project contains four major outputs:

#### **Output 1: Capacity building**

The first component involves capacity development for HWA to enhance its institutional ability to effectively initiate, deliver, and support the management of investments/projects. Crucial for economic development and value for money being realized as a result of the projects, will be the ability to select investments with comparative strategic economic and social advantage for diverse members of the population and which are resilient to current and future shocks (climate and otherwise).

#### **Output 2: Community engagement**

The second component involves community engagement through creation/enhancing or formation of community water committees in the areas directly affected by the project areas in Hargeisa. The

purpose of the water committees will be for disseminating project information and dialogue on project issues, especially the use of the water supply among the different communities in Hargeisa.

### **Output 3: Increased water production through groundwater abstraction in Laasdhure aquifer and connecting to the existing system at Geed Deeble**

The third component involves drilling of 4-6 boreholes, design of the wellfield collector system, supply and installation of pipes, fittings, valves, and electromechanical equipment to connect the boreholes to the NGDPS.

### **Output 4: Technical studies**

The fourth component involves conducting three technical studies: (1) Comparative advantage of investing in rural versus urban water supply projects, based on clear VfM considerations, risk, results, need and other possible financing options; (2) Study on increased accountability on performance and pricing of water in urban water supply systems including pro-poor tariff study; (3) Study on sustainable water provision to Hargeisa looking at the present water demand vs water supply, future water demand and population and city growth prospects and updating of the 2007 HWA master plan.

## **3. Scope of Work**

The SDF Secretariat (Client) intends to award supply and install contracts for construction works to up to three different contractors as follows:

- LOT1: Supply and installation of 7,565m pipeline including civil works for the three boreholes and pipelines from the three boreholes to junction 3 or J-3.
- LOT 2: Supply and installation of 4,384m pipeline including civil works from J-3 to NGDPS.
- LOT 3: Supply and installation of electromechanical equipment/works on the three borehole pumping stations including installation of SCADA System for the three borehole stations and water reservoir at NGDPS.

A Resident Engineer (RE) will be responsible for the overall supervision of the implementation of project works. The RE is expected to ensure that the project delivers its results in line with the provided time and budget. In doing so, s/he will streamline the project activities as per technical and administrative aspects of the construction in compliance with the condition of contract, approved design, specifications, and sound engineering practice. The RE will assist the HWA Project Management Team (PMT) on various technical matters for smooth implementation of the project on a day-to-day basis. The role will report to the Project Manager and will work under technical guidance of the Technical Advisor and SDF Secretariat Sector Specialist. The RE will be assisted by a Site Engineer. S/he will also supervise Technical Officers and Interns engaged under the project.

## **4. Key tasks**

The Resident Engineer is expected to conduct the following tasks:

### **Task 1: contract preliminaries**

- Review/study Laasdhure designs, drawings, BOQs, and pipes and fittings supplied by the Contractors and alert HWA/SDF Secretariat on any discrepancies or design modifications required and/or materials to be ordered.
- Review the qualifications of the proposed key management personnel of the Contractors and make appropriate recommendations to the Client.
- Receive from the Contractors, check for compliance with contract requirements, and approve all performance bonds, insurance certificates or policies and guarantees relating

to the contract before submitting to the Employer for acceptance.

### **Task 2: Work programme**

- Review the programme submitted by the Contractors for the execution of the Works to establish whether the methods, arrangements, order, and timing of the activities are realistic and coherent in relation to the conditions pertaining to the site. The RE shall examine the works to ensure that, as far as is practicable, the Contractors are able to meet the required Service Quality Levels as specified in the timetables for compliance in the contract specifications.
- Identify from the approved programme the information needed by the Contractors for the execution of the Works and ensure that such information is made available to the Contractors in a timely manner. The requirement for standard drawings and information relating to the drainage works should be given adequate consideration.

### **Task 3: day-to-day management**

- Monitor closely the progress and quality of the works and inform the Client in a timely manner of any problems that could adversely affect the costs or time for completion of the works and instruct the Contractors to take any remedial measures deemed necessary for the timely completion of the works.
- Assist the Contractors with day-to-day technical issues arising from the design specifications and drawings as issued by the design firm.
- Check the quality of all the executed works, quality of installed and built materials and installed items of plant and order replacement or making good of any sub-standard workmanship encountered anywhere in the permanent works.
- Review and approve all material submittals of the Contractors.
- Maintain records of completed works with details of any deviations from contract documents i.e., drawings, technical specification etc.
- Check quantities/percentages contained in the Contractors' Interim Payment Certificates (IPC), approve when agreed and issue payment certificate.
- Where necessary, issue change orders provided no change in cost/extension of time is involved and once endorsed by the Client.
- Advise and seek approval from the Client for change orders where an increase or decrease in cost or extension of time is involved.
- Review and approve the testing plans, performance tests and commissioning plans in accordance with the technical specifications and conditions stipulated in the contract documents for all the mechanical plant envisaged.
- Keep a diary or logbook, recording Contractors' hours on the job site, weather conditions, materials on site, equipment on site, staffing levels and data relative to questions of extras or deductions, list of visiting officials, daily activities, and observations in general.
- Chair weekly site meetings and monthly site progress meetings and prepare and issue minutes to all concerned parties.
- Prepare and submit the monthly progress reports which shall include progress reporting, photos, physical and financial progress schedules, and environmental mitigation measures taken.
- Ensure that project cross-cutting issues such as Environmental and Social Impact Assessments, safety, health and risk management requirements, Value for Money, Risk Management, Gender Equity and Social Inclusion, Conflict Sensitive Programming, and project contribution to economic growth aspects are fully integrated into the project outputs.
- Supervise the Contractors in all matters of Health & Safety and care of the Works and establish an Incident and Injury Free (IIF) culture.
- Prepare the as-built drawings upon completion of the Works.

- Undertake a final review/inspection with the Client to confirm compliance and quality acceptability and issue certificate of substantial completion with a list of all outstanding defects (snag list) to be made good during the defects liability period.
- Supervision of defects on the long term are excluded from this assignment; however, the Client could seek assistance of the RE where the situation needs the RE's support. Such short-term inputs shall be made under specific agreements.

#### **Task 4: Review of technical documents submitted by the Contractors**

- As required in Special Conditions of the works contract, review all documents for the design of the works issued by the Contractors and grant approval or disapproval not exceeding 21 days following receipt. The RE shall liaise with the Contractors to resolve any issues as quickly as possible. The Contractors shall not commence works prior to receipt of approval from the RE.
- Render written decisions within a reasonable time, on all claims, disputes and other matters in question relating to the execution or progress of work or the interpretation of the construction contract documents.

#### **Task 5: Modifications**

- Consider and evaluate Contractors' suggestions for modifications in drawings or specifications and report them to the Client with recommendations.
- Examine Contractors' proposals for changes and provide recommendations to the Client for approval when changes affect cost. Changes which do not affect cost or quality may be approved on-site and recorded in the monthly progress reports. Such changes shall be affected by written orders issued by the RE.

### **5. Duration and Locations**

The assignment is expected to last 15 months from the commencement of the contract. The construction contract duration may be more or less than the 15 months. The RE will commence work one month before the construction work commences in order to review the documentation of the works. The RE shall spend one month after the finalisation of the contracts in order to close out the works contracts and any outstanding issues such as operation and maintenance manual and defects detected at the end of the works. The RE will be based in Laasdhere but accommodation will be in Hargeisa.

### **6. Reporting Arrangements**

The RE will work under the overall supervision of the SDF Secretariat Sector Specialist. On a day-to-day basis, the RE will work with the PMT, especially with the Project Manager and Technical Advisor.

### **7. Deliverables**

The RE will prepare and submit to the Client the following reports, including soft copies in editable formats (in Word, Excel, etc.). Submission shall be in draft form and final copy upon approval of the draft reports.

- Inception report.
- Weekly and Monthly progress reports.
- Site mission reports.
- End of assignment report.
- All soft copies should be presented in the original software used for its production. PDF

alone will not be accepted.

## **8. Required Qualifications, Skills and Experience**

### Qualifications and skills

- At least a Bachelor's degree in Civil Engineering or Water Engineering.
- Registration with relevant recognised professional body.
- Demonstrated excellent command of spoken and written English.
- Proficiency in basic computer software such as MS Access, Excel, Word, PowerPoint, AutoCAD, and water modelling software such as EPANET.

### General professional experience

- Minimum of 10 years' experience in implementation/supervision of water supply system projects.
- Minimum of 3 years' experience in countries with water supply conditions similar to Somaliland.

### Specific professional experience

- Minimum of 7 years' experience as Resident Engineer in large water supply projects of similar size and complexity.
- Have been Resident Engineer in at least two projects similar in scope and size to Laasdhure in the last 7 years.
- Minimum of 5 years' experience in preparation and modification of drawings in AutoCAD. The applicant should share some drawings he/she prepared to demonstrate his/her skills.
- Minimum of 5 years' experience in contract management and dealing with contractors / implementing partners.

## **9. Equipment**

No equipment is to be purchased on behalf of the Client/Contracting Authority as part of this service contract or transferred to the Contracting Authority or local counterparts at the end of this contract. The Expert is expected to either rent or bring his/her equipment to complete the consultancy assignment with all the necessary software installed.

## **10. Fees and Allowances**

- The successful candidate will be offered competitive daily fees.
- Fees will be paid on monthly basis against submission of agreed reports and approval of timesheets and invoice.
- Final payment will be made after the completion and approval of the final report.
- The SDF Secretariat shall organise and pay for the Expert's accommodation, travel within Somaliland, and DSA as per SDF guidelines.

## **11. Duty of care**

- The Expert will work under the overall SDF Secretariat Health, Safety and Security protocols.
- The Expert will be expected to provide own insurance for health care (which must include Medevac provision which caters for COVID-19 related evacuation), accidents, and other risks associated to the assignment. The SDF Secretariat shall be free from any liabilities arising from the same.

## **12. Other provisions**

- **Accountability:** The Expert will be accountable to the SDF Secretariat Team Leader or his designate. However, the Expert will technically report to the Sector Specialist at the SDF Secretariat and will work on a day-to-day basis with the Project Management Team at HWA, specifically the Project Manager and Technical Advisor.
- **Duty post:** The workstation is the project site is Laasdhure.
- The SDF Secretariat will arrange all transport by road or air as needed.
- The SDF Secretariat will arrange accommodation.