



**TERMS OF REFERENCE
FOR
CLEANING UP & REHABILITATION OF ORANJEMUND
SHORELINE (BEACH AREA) & ORANGE RIVER MOUTH
2021**



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1. BACKGROUND

The Orange-Senqu River originates in the Lesotho Highlands, from where it flows westwards to its mouth at Alexander Bay/Oranjemund on the Atlantic West Coast. The river basin is the third largest in Southern Africa, after the Zambezi and the Congo, covering a total area of 1,000,000 km² of which almost 600,000 km² is inside the Republic of South Africa. Four countries – Botswana, Lesotho, Namibia and South Africa - share the Basin, and the river forms the border between South Africa and Namibia at its lower reaches.

Lesotho, the upstream country falls entirely within the basin and contributes over 40% of the stream flow from only 3.4% of the total basin area but is one of the smallest users of water from the basin. South Africa is by far the biggest user of water from the Orange-Senqu River Basin, and this use drives the economic heartland of South Africa. The Botswana part of the Basin is entirely covered by the Kalahari Desert with very little surface runoff, but groundwater contributes to the water demands in this portion of the basin.

The water requirements in the lower reaches of the river are driven primarily by irrigation demands from both Namibia and South Africa, and the need to maintain environmental flows to the estuary. As the most downstream portion of a heavily used basin, water resources quality in this stretch is a concern. Similarly, the middle and lower reaches of the river are subject to periodic and often devastating floods. The Orange River estuary is ranked as one of the most important wetland systems in Southern Africa but has experienced environmental degradation. This wetland system was designated as a Ramsar Site, but because of its threatened status it was placed on Montreux Record in 1995.

The effective management of the Orange-Senqu River Basin is, therefore, particularly complex, but is also vital to the economy of the region. As a result, the riparian States prioritised this basin for the establishment of a Shared Watercourse Institution under the revised Southern African Development Community (SADC) Revised Protocol on Shared Watercourses. ORASECOM was one of the first of the Shared Watercourses Institutions to be established in SADC.

ORASECOM is an advisory body, issuing recommendations to its Member States (The Parties) aimed at optimizing the development and management of the water resources of the Orange-Senqu River Basin for the benefit of all the people in the Parties.

2. INTRODUCTION

Flash floods were experienced along the Orange River late December 2020 and early January 2021. With the Orange River mouth directly depositing in the Atlantic Ocean, flash floods brought along tones of debris into the sea which were then washed back along the beach in Oranjemund including parts of the Orange river banks.

In response, the Oranjemund Town Council responded in terms of mitigating the hostile condition along the beach. Immediate rehabilitation (physical cleaning) of the area was initiated and managed to clear about a hectare of the affected. However this was stopped due to financial

challenges. Thus the Oranjemund Town Council through the Ministry of Agriculture, Water and Land Reform is now partnering with ORASECOM to ensure that the beach area is cleaned and returned to its natural and aesthetic condition.

Some of the debris has since been buried under sand due elements of weather and as such, immediate intervention is required to avoid such from happening. The total estimated affected area is +/- 10 hecters.



3. OBJECTIVES OF THE PROJECT

The project seeks to achieve the following;

- To rehabilitate the general environment along the Orange river mouth together with the entire affected shoreline.
- To reduce/minimize the risk of snake habitation patterns along the beach thus avoiding snake bite incidents.
- To uplift the safety of beach users including Tourists by eliminating the danger of wood prick on citizens taking leisure at the beach.
- To eliminate the possibility of any negative effect/s imposed onto the Marine ecosystem, both known and unknown.
- To ensure and maintain a clean shoreline at all times.

4. ACTIVITIES AND CLEANING PROCESS



To achieve the above set objectives, the following activities will be undertaken:

4.1 Debris removal process (Cleaning up) & site size

This activity involves the clearing of almost 10 hectares of the Oranjemund beach area of the debris. Specifically;

- Cutting of large and long wood (logs) into small pieces for easy carriage, loading and transportation from the affected area.
- Removal of small pieces from the sandy by digging, hand picking and raking to create heaps.
- Collecting and pilling of large portion of woods by hand.
- Through gathering, heaping and collection of small fragmented sharp obstacles buried under sand by hand or hand tools such as rakes.
- Collection of all heaps and loading into tipper truck/s using appropriate machinery.

The activity is high risk as it may injure workers hence a clear strategy on avoiding and dealing with workplace injuries is required.

4.2 Transportation of debris and Personnel

- Transport all loaded wood for disposal at the Oranjemund landfill site or any other designated site.
- Transport small pieces of debris to the compositing site
- Transportation of human resources (personnel) to and from the affected area on a daily basis.

4.3 Harvesting of wood

- Cut wood into small size for firewood
- Chip some of the wood into small particles for composting.

4.4 Soil rehabilitation

- Levelling and proper flattening of the surface after digging out all underground debris.

5. EXPECTED RESULTS

It is expected that at the end of the project, the following will be achieved;

- The site is rehabilitated to original state and aesthetic condition.
- All the rubble is well cleared and no unwanted items and material in the project site.
- All waste has been managed properly and disposed safely in agreement with the Oranjemund Town Council.
- All employees that were engaged in this activity have been paid as per their contractual agreements (written or verbal).
- Company to receive project completion certificate from ORASECOM.

6. CONTRACT REQUIREMENTS

6.1 Personnel required;

- Project foreman
- Site supervisor
- Health and Safety coordinator
- Environmental Coordinator
- Team Members
- Site security guards

6.2 Qualifications and Experience of Personnel;

- All personnel to have acceptable levels of qualifications, skills and required minimum experience to successfully execute the project.

6.3 Experience of the Company;

- Preferred company should be able to prove relevant experience in similar or related activities together with capability to attain project goal.
- Local companies to be given preference and conditioned to source local labour.
- Company with experience on cleaning services, waste management
- Company with required means of transportation

7. FINANCIAL REQUIREMENT AND PROJECT ASSISTANCE

- Company should have good standing with the bank
- Company has letter of intent with bank
- Margin of preference should apply – company should quote not less than 10% of project estimate cost and not more 10% of the project estimate cost.

8. PROJECT TIME LINE

8.1 Estimated time for issuing bids and bid closing date

- Bids will be issued starting on the 20th September 2021 and they shall run for a period of 14 calendar days and close no later than 1500hrs on the 07th October 2021.
- The manner of bid advertising shall be RFQ or as agreed upon by both parties.

8.2 Estimated commencement date of actual work

- Actual work shall commence at least one week from the signing of the contract with the procuring entity.
- Any deviation from this the above instruction shall be communicated in advance.

8.3 Estimated Project Duration

- It is expected that the project will be undertaken and completed within Two (2) calendar months.

9. Institutional Arrangements

The contractor is expected to commence work one (1) week after concluding all necessary contractual arrangements with the ORASECOM Secretariat.

The successful Consultant will work under direct supervision of the Oranjemund Town Council Manager and the ORASECOM Environment/Water Quality Expert. Unforeseen costs incurred may be reimbursed based on acceptable justification and documentation. However, the Contractor shall be responsible for supplying own office facilities, equipment, transport, meals and accommodation during fieldwork.

Tender Submission

Interested entities should submit separate **Technical and Financial Proposals** clearly detailing how the assignment will be undertaken and how much it will cost. The total cost

should be all inclusive to eliminate ambiguity. The term “all-inclusive” implies that all costs (professional fees, communications, consumables, VAT etc.) that could be incurred by the consultant in undertaking the project.

Electronic Technical and Financial proposals should be submitted with a subject line clearly titled: “**CLEANING UP & REHABILITATION OF ORANJEMUND SHORELINE (BEACH AREA) & ORANGE RIVER MOUTH 2021**” in through email to Mr Michael Ramaano (mike.ramaano@orasecom.org) with a copy to communication.orasecom@gmail.com and mike.ramaano@gmail.com no later than **1600hrs on Monday 08th November 2021.**

Request for clarifications should be **emailed (preferred mode of communication)** to the above contacts, mobile +27 843051002, no later than 1600hrs on 01st November 2021.

