


Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	1 of 33	02	<b>KOBWA</b> WATER FOR EVER



## **TERMS OF REFERENCE**


### **PROVISION OF ELECTROMECHANICAL MAINTENANCE SERVICES FOR THE DRIEKOPPIES AND MAGUGA DAMS**

**TENDER NO. KOB/DD/08/2024**

CLOSING DATE OF SUBMISSIONS: 22 November 2024

TENDERS MUST BE HAND DEPOSITED AS FOLLOWS:

Komati Basin Water Authority Maguga Dam Pigg's Peak <b>ESWATINI</b> Telephone +268 2437 1463/4	Komati Basin Water Authority R570 Driekoppies Dam Offices Schoemansdal <b>Republic of South Africa</b> Telephone 013 7810 317/8
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Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	2 of 33	02	

## Table of Contents

### Sections

1. Request for Proposal
2. Supplementary Information
3. Appendix A - Scope of Services
4. Appendix B - Rates
5. Appendix C – Certificate of attendance at compulsory site meeting


CONTROLLED

Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	3 of 33	02	

## SECTION 1: REQUEST FOR PROPOSALS

### PROVISION OF ELECTROMECHANICAL MAINTENANCE SERVICES FOR DRIEKOPPIES AND MAGUGA DAMS

1. Interested Professional Service Providers (PSPs) are invited to submit a services proposal and, under separate envelope, a financial proposal for the provision of electromechanical maintenance services for Driekoppies and Maguga dams. Proposals would form the basis for negotiations and an agreement between the successful bidder and the Komati Basin Water Authority (KOBWA).
2. The purpose of the services requested is to conduct electromechanical maintenance services for Driekoppies and Maguga dams.
3. To assist bidders in preparing proposals, the following are enclosed:
  - a. Supplementary Information (Section 2),
  - b. Appendix A - Scope of Services (Section 3),
    - Proposals should be submitted in the format provided for in Section 2 to be evaluated in two stages. Initially the services proposal will be evaluated and rated. **Should a rating of less than 80% be achieved the proposal will not be acceptable and the financial proposal will not be opened.**
    - Weighting;
      - (i) Technical Proposal 80%,
      - (ii) Financial Proposal 20%
4. Mandatory Bid Requirements - the following are ALL mandatory attributes to qualify to make the bid and should form part of the technical proposal;

Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	4 of 33	02	

- (i) Certified Company registration.
- (ii) Original Bid and a Copy – (both hard copies clearly marked as either original and copy and one ELECTRONIC COPY – USB/ document sharing link).
- (iii) Proof of payment for the purchased TOR.
- (iv) ECSA Pr. Reg. Eng/Tech: Mechanical & Electrical Engineering.
- (v) Current tax clearance certificate not older than three months.
- (vi) Liability insurance cover.
- (vii) Attendance of compulsory site visit on 31 October 2024 at Maguga Dam and 01 November 2024 at Driekoppies Dam at 11:00 am

5. Proposal Evaluation - the services proposal will be evaluated using the two-stages bidding process as follows:

5.1 Functionality Criteria; and


5.2 The 80/20 preference point system.

A maximum of 80 points representing price and 20 points representing Broad-Based Black Economic Empowerment for South Africa. Only bidders who meet the minimum requirements of the functionality criteria will be considered in this phase. The following formula will be used for the preference point system.


Furthermore, the financial proposal must clearly show the following among others;

5.2.1 Split between scheduled and adhoc maintenance as explained in Section 2.

6. Functionality Proposal Evaluation

<b>Effective date</b>	<b>Document No.</b>	<b>Dept.</b>	<b>Rev.</b>	<b>No. of Pages</b>	<b>Supersedes</b>	
May, 2023	KOB/DD/08/2024	FIN	03	5 of 33	02	

<b>CRITERIA FOR FUNCTIONALITY</b>	<b>RATINGS</b>	<b>WEIGHT</b>
Company experience in the industry	Each year equal to one point Between 0 – 5 years: 5 Between 6-10 years: 10	10
Personnel Qualifications & Experience. Attach organogram and CVs with certified copies. <ul style="list-style-type: none"> <li>Pr. Tech/Eng: Electrical</li> <li>Pr. Tech/Eng Mechanical Engineering</li> <li>Hydraulics</li> </ul>	Team Leader: 15 <ul style="list-style-type: none"> <li>Qualifications and Affiliation as a Pr. Tech/Eng, Electrical and Mechanical: 10</li> <li>Experience: Min 5 years: 5</li> </ul> Support staff (+2): 10 <ul style="list-style-type: none"> <li>Cand. Reg. Eng: 5</li> <li>Experience: Min 5 years: 5</li> </ul>	25
Proposed Operational Plan	Technical Aspect  Provide proposed project approach, clearly outlining the following; <ul style="list-style-type: none"> <li>Turn-around time in adhoc events.</li> <li>Operational Plan (Scheduled and Adhoc service and/or maintenance).</li> <li>Skill transfer plan.</li> <li>Innovating ideas to prolong the lifespan of the equipment.</li> <li>Hazard Identification and Risk</li> </ul>	45

<b>Effective date</b>	<b>Document No.</b>	<b>Dept.</b>	<b>Rev.</b>	<b>No. of Pages</b>	<b>Supersedes</b>	
May, 2023	KOB/DD/08/2024	FIN	03	6 of 33	02	


<b>CRITERIA FOR FUNCTIONALITY</b>	<b>RATINGS</b>	<b>WEIGHT</b>
	Assessment (HIRA) and proposed mitigation measures.	
Safety, Health, Environment and Quality Compliance.	Provide policy statement and manual signed by top management – 10 <ul style="list-style-type: none"> <li>• Statement: 3</li> <li>Manual: 7</li> </ul>	10
Institutional Experience -Track Record of clients	Provide a list of five (5) testimonials with project values bearing a date of not more than 36 months ago.	5
Financial Stability	Bank Rating of transactability: C or better - 5; D - 3; E or Lower - 0;	5
<b>Total</b>		<b>100</b>

7. The financial proposal will be evaluated as follows:

The financial proposal with the lowest Total Designated Cost (TDC) will be assigned the maximum of 100. The TDC is defined as the total of all costs directly related to personnel allowances (salary, social benefits, transport of personnel and effects), fees and directly reimbursable expenses for project items such as vehicles, computers etc. The financial proposals will be scored as:

$$Px = 100Cm/Cx$$

Where:

Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	7 of 33	02	

Px = Rating assigned to a financial proposal,

Cm = Cost of the lowest TDC

Cx = TDC of proposal being assessed.

#### 8. The 80/20 preference point system

A maximum of 80 points representing price and 20 points representing Broad-Based Black Economic Empowerment for South Africa. **Only bidders who meet the minimum requirements of the functionality criteria will be considered in this phase.** The following formula will be used for the preference point system:

$$P_s = 80 - 1 - \left[ \frac{P_t - P_{min}}{P_{min}} \right]$$

Where:


P<sub>s</sub> = Points scored for comparative price of offer under consideration.

P<sub>t</sub> = R value of offer under consideration.

P<sub>min</sub> = E/R value of lowest acceptable offer.

B-BBEE Statuses Level of Contributor	Number of Points (80/20 System)
1	20
2	18
3	16
4	14
5	12
6	10
7	8
8	4
<b>Non-Compliant Contributor</b>	<b>0</b>
<b>For Eswatini companies:</b>	
<b>+50% Eswatini citizen ownership</b>	<b>20</b>

For Eswatini companies there must be proof of 50% Swazi ownership

Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	8 of 33	02	KOBWA WATER FOR EVER

9. Costs for preparing the proposal and for any negotiations are not reimbursable

10. Proposals including costs should be valid for a period of at least 90 days from the closing date for submissions.

11. Compulsory site visit will be held at Driekoppies dam on 31 October 2024 at Maguga dam and 01 November 2024 at Driekoppies dam at 11:00 am

12. Proposals must be physically submitted and signed for on the register on or before 12h00 hours on the 22 November 2024 into a tender box at the following address.

**Komati Basin Water Authority  
Maguga Dam Offices  
P. O. Box 678  
Pigg's peak  
H108**

**Komati Basin Water Authority  
Driekoppies Dam Offices  
P. O. Box 518  
Schoemansdal, Along R570 Road  
1331**

13. Proposals should be submitted in two separate, sealed envelopes as follows:

Technical Proposal – Ref: **KOB/DD/08/2024a**; and

Financial Proposal – Ref: **KOB/DD/08/2024b**

Any request for more information or clarifications should be made in writing, no later than five (5) days before the tender closing date at the following contact details:

Mr. Thabo Mahlobo – Infrastructure Maintenance Technologist

Mr. Monde January – Corporate Services Director


Tel: (+27) 13 591 2633/44

Email: [thabo.mahlobo@kobwa.co.za](mailto:thabo.mahlobo@kobwa.co.za) copy to: [sakhiwe.nkomo@kobwa.co.za](mailto:sakhiwe.nkomo@kobwa.co.za)

[monde.january@kobwa.co.za](mailto:monde.january@kobwa.co.za)

[maguga.office@koba.co.za](mailto:maguga.office@koba.co.za)




Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	9 of 33	02	

## SECTION 2: SUPPLEMENTARY INFORMATION

Supplementary Information to include, but not limited to the following:

### Table of Contents

1. General
  - 1.1 Preparation and submission of proposal
  - 1.2 Proposed Schedule for submission, evaluation, negotiation, and award
  - 1.3 Negotiations
  
2. Tender Purpose
  - 2.1 Background
  - 2.2 Implementation
    - 2.2.1 Scheduled Maintenance
    - 2.2.2 Adhoc Maintenance
  
3. Institutional Experience
  
4. Overall Approach
  
5. Financial Proposal

Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	10 of 33	02	

## 1. General

### 1.1 Preparation and submission of proposal

**1.1.1. Submission of Qualifications:** Bidders should submit abridged Curriculum Vitae's (CV's) of the proposed personnel in the evaluation criteria.

**1.1.2 Compliance with Laws:** In connection with the furnishing of supplies or performance of work under the contract, the Consultant agrees to comply with the relevant state laws applicable in the Republic of South Africa.

### 1.2. Proposed schedule for submission and commencement of services:

- Closing Date: 22 November 2024
- Commence services 01 April 2025


### 1.3 Negotiations

The required negotiations to reach agreement on all components of the required services will result in a contract. Negotiations will commence with the services proposal and proceed to the financial proposal focusing on underlying or unit cost rates.

## 2. Tender Purpose:

Background - This section provides for the clear and concise description of the existing maintenance plan.

KOBWA has Electrical and Mechanical equipment located at various locations of the dam wall for each respective dam. These equipment need to be maintained as per Operations & Maintenance Manual. Maintenance team do regular inspections in accordance with the

Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	11 of 33	02	

existing O&M Manual to observe any signs that indicate presence of soiling, nesting and any other concerns that can cause operational problems.

## 2.1. Driekoppies dam

2.1.1 Operating Deck: Operating deck and control room is inspected daily for operational purposes and for resetting the outlet control sleeve valves and for essential visual confirmation that all electrical equipment and recording instruments are functioning correctly. Functioning of all light fitting are also confirmed and defective fittings are replaced without delay.

The standby generator is activated once in two weeks to switch in automatically and then kept running underload for at least an hour. There is always a full drum of fuel in reserve and one air filter and one oil filter always available as spares.


Servicing of this diesel generator, cranes, the mini sub and electrical switchgear must be done by a competent PSP.

2.1.2 Valve Shaft and Staircase: All seven 2000mm butterfly valves in the Valve Shaft are inspected on a weekly basis. During these inspections the defective light fittings at the valves and staircase is replace. KOBWA has also an intercom system which require to be inspected and defects `fixed.

Indications of corrosion of steel reinforcement in the concrete, any possible leakage at the butterfly valves and associated pipework is also recorded. The gearboxes are checked for oil leaks and should any leakage be detected it is repaired without delay.

Internal inspection of the outlet pipework, 2000mm diameter butterfly valves and actuators are done by a PSP.

2.1.3 Valve House: Weekly inspection is done, during the visits the correct functioning of all inside and outside light fittings is confirmed. The hydraulic drive system for the sleeve

Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	12 of 33	02	

valves (hydraulic pack, feed and return pipes as well as cylinders) is inspected for any possible leakage of hydraulic fluid. Two submersible pumps are provided at the sump in the floor of the deep chamber in the Valve House which are used to drain seepage water and further drain water scoured from the 750mm diameter recorder shaft as well as flow from the gallery seepage.


The electrical control system for these pumps provide for the selection of either Automatic or Manual modes of control on the motor control board next to the distribution board VH2 in the Valve House. When the recorder shaft is scoured on monthly basis the correct operation of the sump pumps is confirmed. Any possible leakage from the pipework exposed in the main pipe chamber and the side chamber is recorded.

**2.1.4 Gallery:** The normal operating switches for the light fittings along the gallery are located on the main distribution board in the control room. These light fittings are connected such that every third fitting is in a particular group connected to one of the three phases of the power supply. The correct functioning of the lighting system is checked on a monthly basis by breaking the appropriate supply circuit in the main distribution board while the particular group is switched on. Any defects are reported so a PSP can be engaged.

**2.1.5 Overhead line:** The 22KV 35mm XLPE High voltage cable runs from the main gate to the Valve house to supply power to the transformer located by the control room. This line is inspected once a year and a competent PSP is required to undertake this exercise.

## **2.2. Maguga dam**

**2.2.1 Intake Tower:** The concrete structures comprising the intake tower will generally require only routine maintenance. However, leakage through cracks in the concrete must be monitored on a regular basis to ensure that it is not increasing. In the event that leakage increases, specialist advice should be sought.

Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	13 of 33	02	

Whilst the maintenance of the outlet pipework is covered elsewhere, it is the duty of any personnel

visiting the Intake Tower to record and report any leakage from the numerous large and small diameter pipe flanges, "VJ" couplings and access manholes.


It will be important also to ensure that any leakage through the tower shell or from pipework joints does not impinge upon mechanical or electrical equipment. Whilst staunching a leak through the concrete shell may be difficult, it is normally not that difficult to devise a plan to divert such leakage away from electrical equipment or from pipework. Doing so will help to prevent electrical failures or premature deterioration of the steel pipe corrosion protection.

The intake tower can be separated into distinct areas, with each area requiring particular maintenance functions to be performed.

2.2.2. Outlet Works: The outlet works of the dam is situated on the lower right flank of the main embankment and consist of a 103.3 m high free standing intake tower over a shaft with two bottom outlets and eight multi-level intakes at 7.5m separation. The intake tower and outlet tunnel house two 2 000 mm diameter penstocks. The intakes are provided with 1 800 mm diameters butterfly valves for upstream control to enable selection of the appropriate water draw off level. A single service/emergency gate has been provided for upstream closure of the intakes.

2.2.3. High Voltage Switch room: The HV switch room houses the Outlet Structure HV switchboard and battery trip unit.

The Outlet Structure HV switchboard consists of the main incoming circuit breaker to the site and feeders to the Intake Shaft minisub, the Outlet Structure transformer and a future Powerhouse. The special tools, required for operating and switching of the switchgear, are mounted against the wall. Switching must only be performed by a qualified electrician. The battery trip unit, inside the room, provides power (32V) to the control and protection circuits of the

Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	14 of 33	02	

HV switchboard. Failure of these batteries can cause a complete shutdown of the site. Maintenance of the batteries, according to the manufacturer's manual, is therefore very important. Power supply to this battery trip unit is from the Uninterruptible Power Supply (UPS) in the control room. This will ensure that the battery chargers have a constant power supply, even during power failures.

## 2.2 Implementation

KOBWA wishes to undertake maintenance of the above-mentioned equipment on a scheduled and adhoc approach, this includes regular and routine maintenance to help keep equipment up and running, preventing any unplanned downtime and expensive costs from unanticipated equipment failure.


2.3.1 Scheduled Maintenance: This will be based on inspection, servicing and load testing of the various equipment as detailed appendix A under the Scope of Work. A table will be supplied to appointed PSP detailing the projected timeframes that must be adhered to. All costs to carry out the work should be clearly stated under Rates, Appendix B.

2.3.2 Adhoc Maintenance: This will be conducted on an as and when required approach. KOBWA representative shall contact the appointed PSP to provide the required support when the need arises. The PSP reserves the right to propose for further maintenance and/or service to address scheduled maintenance findings upon approval from approved KOBWA personnel.

## 2.4 Expected Outputs / Deliverables

The expected outcomes from this tender are as follows:

- a. A detailed proposal with a scheduled maintenance and service plan.
- b. Provision of rates for the duration of the project.

Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	15 of 33	02	

### 3. Institutional Experience

Describe in detail the qualifications of the firm and the company personnel to whom the task would be assigned as well as any back up personnel.

Details should include:

3.1 Familiarity and years of service to similar institutions.

3.2 Detail of past work performance including the value of the contract.

3.3 Names of assigned personnel and their function with relation to this proposal. The personnel sent by the PSP to perform the work shall be as per the submitted bid documentation, any changes to personnel shall be reviewed and approved by KOBWA.


3.4 Experience, education and training of assigned personnel with particular regard to public entity experience.

3.5 Professional affiliations / credentials of assigned personnel as well as any pertinent publications.

3.6 Availability of personnel for consultation from other locations / specialties within the company.

3.7 References with names, addresses, and phone numbers of current clients who can be contacted by KOBWA for discussion of services provided to that client.

3.8 How the institution proposes to help KOBWA save costs.

Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	16 of 33	02	

3.9 Any additional remarks/ comments the company wishes to make to elaborate their proposal and qualifications.

#### 4. Overall Approach

##### 4.1 Work Approach

- (i) Bidders should specify their work approach, referring specifically to components of the services requested, including timeliness for both delivery and service.
- (ii) Tasks and subtasks by components should be specified.
- (iii) Involvement of key personnel should clearly be indicated and required resources.

##### 4.2 Work program and manpower schedule

Proposals should include a project plan indicating the timing and duration of tasks and subtasks.


##### 4.3 Facilities and accommodation

Appointed PSPs are expected to cater for their own accommodation and transport

#### 5. Financial Proposal

5.1 General - Please indicate clearly the costs of service, breaking it down into components, as the need arises for clarity. This should be split by phases clearly indicating the cost of implementing each phase. Pricing to match the work components, a schedule of rates to be included and the anticipated annual increase, also mark up for parts procured to be included.



Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	17 of 33	02	

5.2 Staff Costs - KOBWA is not liable for any other costs other than the actual cost of implementing the said maintenance.

5.3 Consultancy information (To be included in the Technical Proposal)

5.3.1. Name of Institution.


5.3.2. Address, telephone and fax numbers, e-mail.

5.3.3. Name and designation of contact persons to whom KOBWA can refer:

- (i) During proposal evaluation;
- (ii) To represent the institution, if requested, to negotiate for the proposed work.

5.3.4. Organizational chart showing designation and reporting relationships of staff proposed for this assignment.

CONTROLLED

Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	18 of 33	02	KOBWA WATER FOR EVER

## SECTION 3: APPENDIX A - SCOPE OF SERVICES


### 1. BACKGROUND

The Komati River Basin is an international drainage basin that is a source of water for the Republic of South Africa, the Kingdom of Eswatini and the Republic of Mozambique. The Basin comprises a total area of 11,087 km<sup>2</sup> up to the confluence of the Komati and the Crocodile rivers at Komatipoort, with a mean annual run-off of 1,438 million cubic meters.

A Treaty on the Development and Utilisation of the Water Resources of the Komati River Basin between the Republic of South Africa (RSA) and the Kingdom of Eswatini was signed in 1992. The Treaty provides for the development and utilisation of the water resources of the Komati River Basin from its headwaters in RSA to the confluence with the Crocodile River at Komatipoort. An agreement was reached regarding the distribution of the water resource between Eswatini and RSA and also the residual cross border flows into Mozambique (Piggs Peak Agreement). The Agreement recognises that Mozambique's rightful share of the water resources of the Komati River will be determined at a future date.

The Komati Basin Water Authority (KOBWA) was established as a bi-national agency in terms of the Treaty for the purpose of implementing Phase 1 of the development. Phase 1 comprises the design, construction, operation and maintenance of the Driekoppies Dam on the Lomati River in RSA (phase 1a), and the Maguga Dam on the Komati River in Eswatini (phase 1b).

The construction of phase 1 is complete and the current focus is on the operation and maintenance of the Phase 1 of the Project. Several developments have taken place both in Eswatini and South Africa intended to utilize the water from the Project.

Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	19 of 33	02	


## 2. OBJECTIVES

**KOBWA requires from a competent and experienced electromechanical maintenance PSP to perform maintenance and related tasks which will be split into 6 LOT numbers for scheduled maintenance and 6 LOT numbers for Adhoc maintenance, the PSP is expected to clearly state on the tender which LOT number they are tendering for based on their qualification and experience as described under Appendix B – Rates.**

**To NOTE: A PSP who is appointed for equipment under the scheduled maintenance will be expected to do Adhoc maintenance for that same equipment.**

### DRIEKOPPIES DAM


EQUIPMENT DESCRIPTION	TASK
Dam wall & Office Transformer	Servicing -Yearly, take oil sample for test in an approved lab. The lab results will determine the course of action. Otherwise repair when necessary.
Overhead line	Inspection- Yearly, repairs as and when required
2 Generators	Servicing – Bi Annual, Repairs as and when required
2 Cranes, 10 and 15 Ton with slings	Load testing - Yearly, repairs as and when required. Service twice a year.
7 x 2000mm dia intake selector butterfly valves, 2 x 1400mm dia and 2 x 600mm dia outlet sleeve valves. 2x 900mm butterfly valves. Cross connector	Servicing- Yearly , repairs as and when required. Inspect the whole internal pipe and valve outlet works annually and produce a report to determine course of action

<b>Effective date</b>	<b>Document No.</b>	<b>Dept.</b>	<b>Rev.</b>	<b>No. of Pages</b>	<b>Supersedes</b>	
May, 2023	KOB/DD/08/2024	FIN	03	20 of 33	02	


<b>EQUIPMENT DESCRIPTION</b>	<b>TASK</b>
pipe with 4 x 200mm butterfly valves.	
2000 dia outlet pipes ( Line A and B), 900mm dia and 1200mm dia municipal and irrigation outlet pipes	Internal and external inspection – Yearly, repairs are as and when required.
Hydraulic pack	Servicing – Yearly, repairs as and when required
2 Submersible sump pumps	Repairs as and when required
7 Actuators	Servicing – Yearly, repairs as and when required
2 grappling beams, 2 emergency gate, 4, trash-racks, 11 screens	Load test annually. Repairs as and when required
Distribution board	Repairs as and when required
Lights (Dam wall, Entertainment area	Repairs as and when required
Intercom system	Repairs as and when required

### **MAGUGA DAM**

<b>EQUIPMENT DESCRIPTION</b>	<b>TASK</b>
Butterfly Valves ND1800mm x 12	Servicing – Yearly, repairs as and when required
Outlet Sleeve Valves Large ND1200mm x 2	Servicing – Yearly, repairs as and when required
Outlet Sleeve Valves Small ND400mm x 2	Servicing – Yearly, repairs as and when required

<b>Effective date</b>	<b>Document No.</b>	<b>Dept.</b>	<b>Rev.</b>	<b>No. of Pages</b>	<b>Supersedes</b>	
May, 2023	KOB/DD/08/2024	FIN	03	21 of 33	02	

<b>EQUIPMENT DESCRIPTION</b>	<b>TASK</b>
Outlet Pipes ND2000mm x 2	Servicing – Yearly, repairs as and when required
Vertical Inlet Pipes (A&B) ND2000mm x 2	Servicing – Yearly, repairs as and when required
Bell mouths inlet ND 1800mm x10	Servicing – Yearly, repairs as and when required
JV Couplings ND18000mm x 10	Servicing – Yearly, repairs as and when required
Transformer Mini Sub 800 kVA 11000/400V x1	Servicing – Yearly, repairs as and when required
Generators x 2	Servicing – Yearly, repairs as and when required
Trash Rake Hoist 16-ton x 1	Servicing – Quarterly, repairs as and when required
Service Hoist 10 ton x 1	Servicing – Quarterly, repairs as and when required
Bulkhead gate <10-ton x 1	Servicing – Quarterly, repairs as and when required
Trash Rake Screen x <16-ton x 2	Servicing – Yearly, repairs as and when required
Hydraulic Power Pack x 5	Servicing – Yearly, repairs as and when required
Inlet Pipes ND2000 x 10	Servicing – Yearly, repairs as and when required
Valve Electrical Actuators (Scheibel) x 12	Servicing – Yearly, repairs as and when required
Inlet Pipes Reducers ND2000 to 1800mm x 10	Servicing – Yearly, repairs as and when required
Outlet Pipes to Hydro Station Reducers ND2000 to 1500mm x 1	Servicing – Yearly, repairs as and when required
Lighting System inlet tower deck and outlet Gallery Many	Servicing – Yearly, repairs as and when required

<b>Effective date</b>	<b>Document No.</b>	<b>Dept.</b>	<b>Rev.</b>	<b>No. of Pages</b>	<b>Supersedes</b>	
May, 2023	KOB/DD/08/2024	FIN	03	22 of 33	02	

## APPENDIX B


### RATES

The following rates are tendered on the work and in accordance with all requirements as stipulated in this tender document:

**SCHEDULED MAINTENANCE:** Provision of Electromechanical Services at Driekoppies and Maguga Dams for the period 01 April 2025– 31 March 2028.

#### DRIEKOPPIES DAM


<b>ITEM NO</b>	<b>EQUIPMENT DESCRIPTION</b>	<b>QUANTITY (A)</b>	<b>RATE (B)</b>	<b>TOTAL (Rands) (A x B)</b>
<b>1</b>	<b>KOB/DD/08/2024 – LOT 1</b>			
	Transformer Mini Sub 800 kVA 11000/400V x1	1		
	Generators	2		
<b>2</b>	<b>KOB/DD/08/2024 – LOT 2</b>			
	2 Cranes (10 and 15 Ton with slings)	2		
<b>3</b>	<b>KOB/DD/08/2024 – LOT 3</b>			
	7 x 2000mm dia intake selector butterfly valves, 2 x 1400mm dia and 2 x 600mm dia outlet sleeve valves. 2x 900 mm butterfly valves. Cross connector pipe with 4 x 200mm dia butterfly valves.	17		

<b>Effective date</b>	<b>Document No.</b>	<b>Dept.</b>	<b>Rev.</b>	<b>No. of Pages</b>	<b>Supersedes</b>	
May, 2023	KOB/DD/08/2024	FIN	03	23 of 33	02	

<b>ITEM NO</b>	<b>EQUIPMENT DESCRIPTION</b>	<b>QUANTITY (A)</b>	<b>RATE (B)</b>	<b>TOTAL (Rands) (A x B)</b>
	2x 2000 dia outlet pipes ( Line A and B),2 x 900 dia and 1200 dia municipal and irrigation outlet pipes	5		
	Hydraulic pack	1		
	7 Actuators	7		
	<b>SUBTOTAL</b>			
	<b>VAT</b>			
	<b>TOTAL</b>			


### MAGUGA DAM

<b>ITEM NO</b>	<b>EQUIPMENT DESCRIPTION</b>	<b>QUANTITY (A)</b>	<b>RATE (B)</b>	<b>TOTAL (Rands) (A x B)</b>
1	KOB/DD/08/2024 – LOT 6			
	Transformer Mini Sub 800 kVA 11000/400V	1		
	Generators	2		
2	KOB/DD/08/2024 – LOT 7			
	Trash Rake Hoist 16-ton	1		
	Service Hoist 10 ton	1		
	Bulkhead gate <10-ton	1		
	Trash Rake Screen x <16-ton	2		
	Trash Rake Hoist 16-ton	1		
3	KOB/DD/08/2024 – LOT 8			
	Butterfly Valves ND1800mm	12		

<b>Effective date</b>	<b>Document No.</b>	<b>Dept.</b>	<b>Rev.</b>	<b>No. of Pages</b>	<b>Supersedes</b>	
May, 2023	KOB/DD/08/2024	FIN	03	24 of 33	02	

<b>ITEM NO</b>	<b>EQUIPMENT DESCRIPTION</b>	<b>QUANTITY (A)</b>	<b>RATE (B)</b>	<b>TOTAL (Rands) (A x B)</b>
	Outlet Sleeve Valves Small ND400mm	2		
	Outlet Sleeve Valves Large ND1200mm	2		
	Outlet Pipes ND2000mm	2		
	Vertical Inlet Pipes (A&B) ND2000mm	2		
	Bell mouths inlet ND 1800mm	10		
	JV Couplings ND18000mm	10		
	Hydraulic Power Pack	5		
	Inlet Pipes ND2000	10		
	Valve Electrical Actuators (Scheibel)	12		
	Inlet Pipes Reducers ND2000 to 1800mm	10		
	Outlet Pipes to Hydro Station Reducers ND2000 to 1500mm	1		
	Lighting System inlet tower deck and outlet Gallery Many			
	<b>SUBTOTAL</b>			
	<b>VAT</b>			
	<b>TOTAL</b>			




<b>Effective date</b>	<b>Document No.</b>	<b>Dept.</b>	<b>Rev.</b>	<b>No. of Pages</b>	<b>Supersedes</b>	
May, 2023	KOB/DD/08/2024	FIN	03	25 of 33	02	


**ADHOC MAINTENANCE:** Provision of Electromechanical Services at Driekoppies and Maguga Dams for the period 01 April 2025 – 31 March 2028:

**DRIEKOPPIES DAM**

<b>ITEM NO</b>	<b>EQUIPMENT DESCRIPTION</b>	<b>TASK</b>	<b>Labour hourly RATE, Time-related cost and Travelling (Rands)</b>
1	KOB/DD/08/2024 – LOT 1		
	Dam wall Transformer	Repairs as and when required	
	Overhead line	Repairs as and when required	
	Generators	Repairs as and when required	
3	KOB/DD/08/2024 – LOT 2		
	2 Cranes, 10 and 15 Ton with slings	Repairs as and when required	
	2 grappling beams, 2 emergency gate, 4 trashracks, 11 screens	Repairs as and when required	
4	KOB/DD/08/2024 – LOT 3		
	7 x 2000mm dia intake selector butterfly valves, 2 x 1400mm dia and 2 x 600mm dia outlet sleeve valves. 2x 900 mm butterfly valves. Cross connector pipe with 4 x 200mm dia butterfly valves.	Repairs as and when required	


<b>Effective date</b>	<b>Document No.</b>	<b>Dept.</b>	<b>Rev.</b>	<b>No. of Pages</b>	<b>Supersedes</b>	
May, 2023	KOB/DD/08/2024	FIN	03	26 of 33	02	

<b>ITEM NO</b>	<b>EQUIPMENT DESCRIPTION</b>	<b>TASK</b>	<b>Labour hourly RATE, Time-related cost and Travelling (Rands)</b>
	2x 2000 dia outlet pipes ( Line A and B),2 x 900 dia and 1200 dia municipal and irrigation outlet pipes	Repairs as and when required	
	Hydraulic pack	Repairs as and when required	
	2 submersible sump pumps	Repairs as and when required	
	7 Actuators	Repairs as and when required	
<b>5</b>	<b>KOB/DD/08/2024 – LOT 4</b>		
	Intercom system	Repairs as and when required	
<b>6</b>	<b>KOB/DD/08/2024 – LOT 5</b>		
	Lights(Dam wall ,Entertainment area)	Repairs as and when required	
	Distribution board	Repairs as and when required	


Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	27 of 33	02	

## MAGUGA DAM

ITEM NO	EQUIPMENT DESCRIPTION	Task	Labour hourly RATE, Time-related cost and Travelling (Rands)
1	KOB/DD/08/2024 – LOT 6		
	Transformer Mini Sub 800 kVA 11000/400V	Servicing – Yearly, repairs as and when required	
	Generators	Servicing – Yearly, repairs as and when required	
2	KOB/DD/08/2024 – LOT 7		
	Trash Rake Hoist 16-ton	Servicing – Quarterly, repairs as and when required	
	Service Hoist 10 ton	Servicing – Quarterly, repairs as and when required	
	Bulkhead gate <10-ton	Servicing – Quarterly, repairs as and when required	
	Trash Rake Screen x <16-ton	Servicing – Quarterly, repairs as and when required	
	Trash Rake Hoist 16-ton	Servicing – Quarterly, repairs as and when required	
3	KOB/DD/08/2024 – LOT 8		
	Butterfly Valves ND1800mm	Servicing – Yearly, repairs as and when required	
	Outlet Sleeve Valves Small ND400mm	Servicing – Yearly, repairs as and when required	


<b>Effective date</b>	<b>Document No.</b>	<b>Dept.</b>	<b>Rev.</b>	<b>No. of Pages</b>	<b>Supersedes</b>	
May, 2023	KOB/DD/08/2024	FIN	03	28 of 33	02	

<b>ITEM NO</b>	<b>EQUIPMENT DESCRIPTION</b>	<b>Task</b>	<b>Labour hourly RATE, Time-related cost and Travelling (Rands)</b>
	Outlet Sleeve Valves Large ND1200mm	Servicing – Yearly, repairs as and when required	
	Outlet Pipes ND2000mm	Servicing – Yearly, repairs as and when required	
	Vertical Inlet Pipes (A&B) ND2000mm	Servicing – Yearly, repairs as and when required	
	Bell mouths inlet ND 1800mm	Servicing – Yearly, repairs as and when required	
	JV Couplings ND18000mm	Servicing – Yearly, repairs as and when required	
	Hydraulic Power Pack	Servicing – Yearly, repairs as and when required	
	Inlet Pipes ND2000	Servicing – Yearly, repairs as and when required	
	Valve Electrical Actuators (Scheibel)	Servicing – Yearly, repairs as and when required	
	Inlet Pipes Reducers ND2000 to 1800mm	Servicing – Yearly, repairs as and when required	
	Outlet Pipes to Hydro Station Reducers ND2000 to 1500mm	Servicing – Yearly, repairs as and when required	
	Lighting System inlet tower deck and outlet Gallery Many	Servicing – Yearly, repairs as and when required	

<b>Effective date</b>	<b>Document No.</b>	<b>Dept.</b>	<b>Rev.</b>	<b>No. of Pages</b>	<b>Supersedes</b>	
May, 2023	KOB/DD/08/2024	FIN	03	29 of 33	02	

<b>ITEM NO</b>	<b>EQUIPMENT DESCRIPTION</b>	<b>Task</b>	<b>Labour hourly RATE, Time-related cost and Travelling (Rands)</b>
	<b>SUBTOTAL</b>		
	<b>VAT</b>		
	<b>TOTAL</b>		

CONTROLLED

<b>Effective date</b>	<b>Document No.</b>	<b>Dept.</b>	<b>Rev.</b>	<b>No. of Pages</b>	<b>Supersedes</b>	
May, 2023	KOB/DD/08/2024	FIN	03	30 of 33	02	

**APPENDIX C**

**CERTIFICATE OF ATTENDANCE AT COMPULSORY SITE MEETING**

This is to certify that

.....(Tenderer)

of

.....(address)

.....  
was represented by the person(s) named below at the compulsory meeting held for all tenderers at

.....(location) on.....(date), starting at.....

We acknowledge that the purpose of the meeting was to acquaint ourselves with the site of the works and / or matters incidental to doing the work specified in the terms of reference in order for us to take account of everything necessary when preparing the our proposals and rates, as per the terms of reference.

Particulars of person(s) attending the meeting:


Name.....Signature.....

Capacity.....

Attendance of the above persons at the meeting is confirmed by the employer's representative namely:

Name.....Signature.....

Capacity.....Date & Time.....-

Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	31 of 33	02	

### **3. MANAGEMENT AND ADMINISTRATION PROCESS**

The KOBWA Tender committee will submit their report including their recommendation to the KOBWA Management. The KOBWA Board will be responsible for the final approval on recommendation from the KOBWA Management

### **4. INFORMATION NEEDS.**

The PSP will consult Management to ensure that desired objectives are met.

### **5. IRREVOCABILITY OF BIDS & ADDITIONAL CRITERIA**

5.1 All bids submitted are irrevocable after the due submission date until the expiry of the bid validity period indicated below, and as such the bidder binds himself that he will enter into negotiations with KOBWA based on the submitted bid.

### **6. BIDDING COSTS**

6.1 All bidding costs relating to the preparation of the bid are for the bidder's account and are not recoverable from under any circumstances;


6.2 The bid document costs a nonrefundable E/R500.00 and a receipt, as proof of payment must accompany the bid submission;

### **7 BID VALIDITY AND PRICING**

Bids will be valid for at least 90 days after the closing date and prices will be firm for the entire implementation period.

### **8 CURRENCY AND TAXES**

Prices quoted in South African Rands or Eswatini Emalangeni.

Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	32 of 33	02	

## 9 ADDITIONAL INFORMATION

### 9.1 Acceptance of Bids

This Invitation to Bid should not be construed as an agreement to supply the required solution. KOBWA is not bound to enter into a contract with the bidder who submits the lowest priced bid. Bids will only be assessed in terms of the evaluation criteria. KOBWA may at her sole discretion choose to award the Lots to different organisations or to award only one Lot without consulting the bidders.

### 9.2 Modification of Terms

KOBWA reserves the right to modify the terms of this Invitation to Bid at any time in its sole discretion. This includes the right to cancel this Invitation to Bid at any time prior to entering into a contract with the successful bidder; notice to that effect shall be given to all bidders. Further information requests and clarifications will be closed five (5) days before the submission deadline.

### 9.3 Ownership of Bids


All documents, including bids, submitted become the property of the KOBWA.

### 9.4 Confidentiality of Information

All bids submitted by bidders shall be held in strict confidence and will not be revealed to any other party.

All Information pertaining to this bid obtained by the bidder as a result of participation in this project is confidential and must not be disclosed without written authorisation from KOBWA.



Effective date	Document No.	Dept.	Rev.	No. of Pages	Supersedes	
May, 2023	KOB/DD/08/2024	FIN	03	33 of 33	02	

## 9.5 Acceptance of Terms

All terms and conditions of this Invitation to Bid are deemed to be accepted by the bidders and incorporated by reference in their bids, except such conditions and provisions that are expressly excluded. There will be an opportunity to review these conditions upon selection of the successful bidder and during subsequent negotiations.

The proposal or sections thereof of the successful bidder will form part of the final contract.

CONTROLLED