

MODIMOLLE-MOOKGOPHONG LOCAL MUNICIPALITY



REQUEST FOR QUOTATIONS

Modimolle-Mookgophong Local Municipality is hereby inviting all suitable qualified Service Providers to submit quotations for the following specifications:

TERMS OF REFERENCE/ SPECIFICATIONS

DAM SAFETY EVALUATION- DONKERPOORT DAM & WELGENVONDEN DAM

Terms of reference (TOR) regarding the scope of works involved in the Dam Safety Evaluations (Inspections).

The methodology described below adheres to the guidelines set by South African National committee on Large Dams (SANCOLD) and is also in accordance with the latest Dam Safety Regulations (R.139 Of 24 February 2012) promulgated under the National Water Act of South Africa (Act 36 Of 1998).

The following scope of works will apply:

Scope of Works for Dam Safety Evaluation (Inspections)

During the desktop studies the following needs to be addressed:

Establish access routes to the dam

Establish communication channels (contact person details for each dam)

Determine the history of the dam

Determination of the dam's legal status (DWS registration etc.)

Basic verification of the dams Water Uses (DWS)

Acquiring of Background Information and Previous Report

Establishing the history of the dams, the background information on the dams:

All applicable previous reports (from the applicable stakeholders and DWS).

All previous instrumentation monitoring records (if applicable)

All construction and /or "as-built" drawings (relevant stakeholders and DWS).

Copies of all registration documents and water use licenses/ permits.

All other relevant correspondence on the dam

Surveys, Investigations, Inspections and Data Collection on Monitoring Instruments on Site

It will be essential to acquiring adequate detailed DTM contour layouts in order to establish a relation between drawdown and storage volume.

Local surveys of the dam walls/structure must also be used to compile proper sectional drawings for future dam safety reference.

Site visit to the dam, the following detailed investigations and inspections must be conducted:

Site related geology and foundation conditions to be investigated. Signs of deterioration will be noted.

Investigation of upper-catchment conditions and characteristics for the purpose of flood hydrology re-evaluation.

Inspection of the present dimensions and condition of the flood spillways and emergency spillways

Inspection of the outlet works system in terms of their present condition, purpose and functionality (i.e. Outlet pipes, conduits etc). The condition and functionality of existing measuring plates must also be investigated.

Date collection (reading and measuring) of monitoring instrumentation where applicable, in order to evaluate against previous records.

Investigation with regard to the overall dam (structure) stability with specific reference to the concrete arch.

Investigation with regard to the embankment stability with reference to settlement and slope stability. Material samples must be taken for testing in to perform a stability analysis.

Investigation of all shortcomings at the dams which need to be addressed in order to safeguard the dams in terms of the present acceptable standards for sound dam engineering practices.

Investigation of the hazard potential which the dams may pose to downstream development and infrastructure.

Processing of Surveys, Finding and Raw Data

Conducting the applicable surveys and obtaining of the DTM contour layouts, sections drawings must be generated for hydraulic evaluation purposes as to be included in the DSE report for future reference.

Also utilizing the compiled the abovementioned data, applicable area /stage, and capacity /stage curves must be compiled to establish a relationship between storage and drawdown at specific levels.

Instrumentation readings must be compared against previous records in order to evaluate the present status quo of the dam (i.e. rate of deterioration, movement , settlement etc)

Where a stability analysis is applicable, the results of the material samples tested must be properly analyzed by utilizing a computer software program. NB! Material samples shall be tested by an approved Engineering Laboratory.

Study and Analysis

Conducting of Finite Element analysis on the concrete arch wall structure in order to establish the current structural stability condition.

Compilation of Dam Safety Evaluation (DSE) Report

With reference to the Dam Safety Evaluations, the inspections, recommendations and detailed refurbishment plan (where applicable) must be compiled as a formal Dam Safety Evaluation Report. This is in line with the requirements of the new Dam Safety Regulations (R.139 of 24 February 2012) as promulgated and read in conjunction with the National Water Act (Act 36 of 1998).

During the compilation of the dam safety Evaluation Report the following issues must be addressed and noted in detail:

Re-evaluation and confirmation of geology and foundation conditions

Re-evaluation and analysis of the flood hydrology in terms of the catchment size and conditions

Re-evaluation of the flood spillways and present discharge capacity determination

Re-evaluation of the outlet works system

Re-evaluation and analysis of the present stability of the dam. Refer to Finite Element Analysis (results to be noted).

Re-evaluation of instrument reading (where applicable)

Re-evaluation of the hazard potential status of the dams in terms of current downstream development and infrastructure

Following the above, recommendations must be made regarding required betterment or maintenance works to be done, in order to comply with the latest dam safety engineering standards.

NB! The recommendations shall be prioritized and preliminary costs for the works shall be included in the report as a detailed Refurbishment Plan.

There shall liaison with the LIM 368 Local Municipality, DWS and all stakeholders prior to finalizing the mentioned report. Meetings will be held accordingly, if necessary. After liaison, the report with all relevant drawings shall be finalized for submission purposes.

Submitting of Documents

All documents (report) and drawings must be submitted in electronic format (PDF) to the municipality.

A copy of the DSE report will be submitted on behalf of the municipality to DSO (Department of Water and Sanitation), in order to update their data base and to raise their comments.

All correspondence from DSO, for the duration of the project, must be forwarded to the municipality.

1. FUNCTIONALITY

The bidders who complied administratively are considered for further evaluation on ability to execute the project. The assessment of functionality will be done in terms of the evaluation criteria and minimum threshold as specified. A bid will be disqualified if it fails to meet the minimum threshold for functionality as per the bid invitation.

CATEGORY	FUNCTIONAL CRITERIA	POINTS ALLOCATION
i	Experience of the bidder	40
ii	Key personnel qualifications and experience	40
iii	APP Registration (DWS)	20
TOTAL		100

1.1. Relevant Experience of Company (40 points)

This will take into consideration similar contract successfully completed by the bidder. The Bidder must submit proof of successfully completed similar projects. (Certified Copies of Appointment Letters and Completion Certificates must be attached).

TARGETED GOALS	POINTS ALLOCATION
Bidder has submitted no information or inadequate information to determine scoring levels	0
Bidder has successfully completed at least 3 similar projects.	20
Bidder has successfully completed at least 5 similar projects.	40

1.2. Company Skilled Personnel (40 points)

A qualified team of skilled personnel (staff). Copies of qualifications must be attached.

KEY PERSONNEL	TARGETED GOALS	POINTS ALLOCATION
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B-Tech Civil Pr. Eng NQF level 7	No information or inadequate information submitted to determine scoring level	0
	B-Tech Civil with NQF 7 and 1 – 3 years of relevant dam safety experience	20
	B-Tech Civil with NQF 7 and more than 5 years of relevant dam safety experience	40

1.3. Registration with DWS (20 points)

Registered as an APP

TARGETED GOALS	POINTS ALLOCATIONS
No relevant documents attached	0
APP Registration	20

A minimum of 70 points is required to qualify for the next evaluation criteria

2. PRICE AND SPECIFIC GOALS

The following formula must be used to calculate the points out of 80 for price in respect of an invitation for a tender with a Rand value equal to or below R50 million, inclusive of all applicable taxes:

The following conditions will apply:

- Price(s) quoted must be valid for at least ninety (90) days from the day of your offer, and be according to specification.
- Price(s) quote must be firm and inclusive of VAT (if VAT Registered)
- Company registration certificate showing percentage of shareholders e.g. CK1, CK2 etc. must be attached
- Valid Tax Clearance or Pin must be attached.
- CSD Summary Report
- In case of a Joint Venture, a Joint Venture agreement must be attached
- Municipal Rates and Taxes not in arrears for more than 3 months or lease agreement together with the proof of rates and taxes of the leased property must be attached.
- Quotation will be evaluated in accordance with Modimolle Mookgophong SCM policy and PPR 2022 80/20 points system
- Certified copies of B-BBEE/EME status level certificate or signed certified sworn affidavit must be attached (for points allocation)
- MBD 4, 8 and 9 forms be completed, signed and initialized.
- Service Providers must be registered on the Central Supplier Database and must attach the registration confirmation.
- Delivery in and around the MODIMOLLE- MOOKGOPHONG jurisdictions

NB: MBD forms are available on Modimolle-Mookgophong Municipality's website www.mmlm.gov.za, no forms will be issued from SCM offices.

THE LOWEST QUOTATION / PRICE DOES NOT MAKE YOU ELIGIBLE FOR APPOINTMENT

Quotations marked **DAM SAFETY INSPECTION** must be deposited in the Tender Box of Modimolle-Mookgophong Local Municipality, OR Tambo Square, Harry Gwala Street, Modimolle before the closing date and time. The closing date for submission is Monday, 04 March 2024 @ 11h00. Failure to comply with conditions may invalidate your offer. Any quotation received after the closing date and time will not be considered.

All Supply Chain Management queries must be directed to **T M Mohale @ 041 718 2022** or mohalet@modimolle.gov.za. Queries regarding specification must be directed to **T Selemela @ 083 377 9543** or selemelat@hotmail.com during office hours. NB: Only quotations deposited in the box will be accepted.


NB THOBELA
Municipal Manager

Notice no: 44/02/2024 – 22/02/2024