

KINGDOM OF LESOTHO
LESOTHO HIGHLANDS WATER PROJECT
THE LESOTHO HIGHLANDS DEVELOPMENT AUTHORITY



LESOTHO HIGHLANDS WATER PROJECT – PHASE II

CONTRACT LHDA No. 2193

KATSE DIVERSION TUNNEL No. 2 PLUGGING

REQUEST FOR EXPRESSION OF INTEREST

LHDA
10th Floor
Lesotho Bank Tower
Kingsway
Maseru, Lesotho

REQUEST FOR EXPRESSION OF INTEREST

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1. BACKGROUND

The Lesotho Highlands Water Project (LHWP) is a multidisciplinary, multistage, bi-national project undertaken by the Governments of the Kingdom of Lesotho and the Republic of South Africa in accordance with a Treaty signed between the two countries in 1986.

The Lesotho Highlands Water Commission (LHWC) is accountable and responsible for implementing the LHWP project, with the Lesotho Highlands Development Authority (LHDA) and Trans Caledon Tunnelling Authority (TCTA) serving as the implementing authorities in Lesotho and South Africa, respectively.

1.1 OVERVIEW OF SUBMISSION OF EXPRESSIONS OF INTEREST

The Lesotho Highlands Development Authority (LHDA) invites suitably qualified and skilled Contractors to submit Expressions of Interest in providing services for Contract No. 2193, Katse Diversion Tunnel No. 2 Plugging. The objective of this Request for Expressions of Interest is to select a short list of suitably qualified Contractors and invite the shortlisted respondents to tender on the project.

Expressions of Interest must be submitted in English and in written form to the address below (in person, by mail/courier, or by email) by the **28th November 2025**, at **14h00** (Lesotho Standard Time). They should be clearly marked "Expression of Interest for **Katse Diversion Tunnel No. 2 Plugging**", "**Contract No: 2193**".

Address for submission of Expressions of Interest:

All must be delivered to

Lesotho Highlands Development Authority,

7th Floor, LHDA Tower Building, Kingsway

Lesotho Highlands Development Authority

E-mail: procurement@lhda.org.ls

1.2 PROJECT DESCRIPTION

The Kaste dam was constructed as part of the LHWP Phase 1. Two tunnels were built to divert the Malibamats'o River's flow away from the dam construction activities. The Diversion Tunnel No. 1 was sealed, while Diversion Tunnel No. 2 was used to regulate the rate of impoundment of the reservoir and to draw down the reservoir level in case of an emergency.

These functions are no longer required, and the Diversion Tunnel No. 2 must be permanently sealed off.

The project requirement is to provide a permanent plug to the Diversion Tunnel Outlet control gates in Diversion Tunnel No. 2 and permanently seal off the Gate Operating Gallery.

2. SCOPE OF WORKS

2.1 GENERAL

The Katse Diversion Tunnel No. 2 Plugging is to be constructed under Contract LHDA No. 2193 "Construction of Katse Diversion Tunnel No. 2 Plugging".

2.2 THE SITE

The Site, which includes the main work areas, is situated in Lesotho near the Katse Dam. Its approximate coordinates are 29°20'24.42"S, 28°30'33.30"E.

The Site is described as follows:

- (a) The Katse Diversion Tunnel No. 2 Plugging at the Katse Dam near Katse village, where the following work activities will be undertaken:
 - (i) Upgrading, construction and maintenance of access to works areas.
 - (ii) Investigative work comprising, inter alia, pressure measurement in the pipe work that is subjected to the reservoir pressure and metallurgical testing of samples of the steel lining.
 - (iii) Installation of a steel bulkhead designed and fabricated off-site.
 - (iv) Plugging and grout filling steel drainage and ventilation pipes of diameters varying from 50mm ND to 600mm ND.
 - (v) Construction of a reinforced concrete bulkhead and installation of rock anchors.
 - (vi) Installation of shear reinforcement in the steel-lined section between the steel and reinforced concrete bulkheads and filling the section with concrete.
 - (vii) Filling and grouting the gate chamber (between the sluice gates).
 - (viii) Removal of all extraneous equipment in the Gate Operating Gallery.
 - (ix) Concrete filling the Gate Operating Gallery and section of access gallery.
 - (x) All associated local access roads, site offices, storage/laydown areas, management and labour camp areas and other related surface works and infrastructure, including procurement of materials for concrete, grouting, earthworks, etc.
- (b) Provision of residential accommodation for the Contractor's Management staff and the Engineer's staff in or near the Katse Village for the duration of the construction period.

2.2.1 Construction Works

2.2.1.1 Access to Site

- (i) Access to Katse Dam and Katse Village, and to the Contractor's management and labour camp areas at Katse, will be via existing public roads.
- (ii) Access to the Gate Operating Gallery will be via LHDA roads to the Katse Gallery Portals on the right bank of the Malibamats'o River and through approximately 1 km of dam drainage galleries.

- (iii) Access to the Gate Operating Gallery is possible through the dam galleries. Still, it is restricted as the galleries are narrow and low, steep in some sections, and other sections relate to steep stairs and the presence of equipment.
- (iv) The Contractor will be required to provide temporary access to the works area on the left bank to the Diversion Tunnel portals, by upgrading and repairing the abandoned gravel road which served as a construction access road from the A25 to the Katse Diversion Tunnels Outlet Portal, to a standard where the road will be fit for purpose.
- (v) Access for construction into the diversion tunnel No.2, including removal of rubble, vegetation, sediment and general cleaning. Removal, storage, and reinstatement of the tunnel portal steel gates upon completion of the work.
- (vi) Maintaining the temporary access for the duration of the construction period, including securing and removal of loose rock on the slopes above the access road and tunnel portals.
- (vii) Implementation of procedures to evacuate staff and vulnerable equipment from the works areas in the event of planned and unplanned release of water from the Katse Dam.
- (viii) The requirements of the LHWP Land Access Protocol must always be complied with.

2.2.1.2 Early-Stage Investigative Work

- (i) Installation of pressure gauges to measure pressures acting on the gates,
- (ii) Check the integrity of the existing standpipes designed to grout the cavity between the gates, confirm whether leakage into the standpipes may have occurred or not and establish the extent of damage resulting from rust at the standpipe bases.
- (iii) Cutting representative cores from the 35mm thick steel lining and having the cores tested to EN 10164. Ultrasonic scan of the 35mm thick steel lining to EN 10160. Establish the boundary between the 35mm steel lining and the downstream 16mm thick steel lining.
- (iv) Obtaining concrete cores from the existing tunnel lining and steel lining concrete backfill, and testing the cores for compressive strength.
- (v) Measurement survey of existing structure dimensions to facilitate the design and placement of the steel bulkhead. This is envisaged to be carried out as a terrestrial scan.

2.2.1.3 Steel Bulkhead

- (i) Design and fabrication of a steel bulkhead (approximately 2.24m high by 2.00m wide) and ancillary fittings necessary for installation immediately downstream of the downstream gate. The bulkhead is to be equipped with drainage valves and grouting nozzles.
- (ii) Hydrostatic loads corresponding to Katse Reservoir Full Supply Level (FSL) shall be taken as the regular (persistent) load case. Earthquake loads may be regarded as accidental loads. Grouting pressure shall be considered in the design.

- (iii) On-site installation of the steel bulkhead. This work will include on-site welding and installation of anchors as required. The work will be done under wet conditions, as a high-pressure water jet is presently being ejected along the invert of the downstream gate
- (iv) Grouting of the void/s between the bulkhead and the downstream gate.

2.2.1.4 Plugging of Pipes

- (i) Several pipes of diameters varying from 50mm to 600mm used for ventilation, aeration and drainage between the Gate Operating Gallery and the Diversion Tunnel are to be sealed and or plugged and filled with concrete or grout as appropriate.
- (ii) Reinforced concrete encasement of the compensation flow and bypass pipework and valves.

2.2.1.5 Instrumentation

- (i) Installation of instrumentation (e.g. pressure gauges and load cells) to monitor site conditions after concrete backfilling of the Gate chamber and Gate Operating Gallery within the contract period and after the contract period.
- (ii) Provision of training to the LHDA staff in the operation of the instrumentation monitoring equipment.

2.2.1.6 Concrete/Grout Backfilling Gate Chamber

- (i) Hot tapping into the chamber between the gates via the existing standpipes, including the design of the stuffing boxes.
- (ii) Inject grout into the chamber, including the design of the grout injection system and bleed systems.

2.2.1.7 Concrete Works Diversion Tunnel

- (i) Clean steel lining to bare metal.
- (ii) Installing shear reinforcement in the steel-lined section immediately downstream of the steel bulkhead installed at the downstream gate (2.2.1.3) and back-filling this section with non-shrink concrete; and
- (iii) Cavity and interface grouting.

2.2.1.8 Concrete Works Gate Operating Gallery

- (i) Dismantling and removal of all extraneous mechanical, hydraulic equipment for operating the gate, ventilation pipes and electrical equipment in the Gate Operating Gallery.

- (ii) Backfilling the Gate Operating Gallery and part of the access gallery with concrete; and
- (iii) Cavity and interface grouting.

2.2.1.9 Access Requirements within Existing Structures

- (i) The Contractor shall take cognisance that the dam galleries contain vital services and equipment for the operation of the Katse Dam, resulting in constricted access for transport of all materials and equipment in and out of the Gate Operating Gallery.
- (ii) The Contractor shall be aware of and safeguard all services and equipment within the galleries and shall repair any damage caused without delay to the satisfaction of the Engineer.

2.2.1.10 Construction Materials

It is expected that due to the low volume of construction materials required, the Contractor would use commercial sources. The Contractor will, nevertheless, be required to demonstrate compliance with the specifications.

2.2.1.11 Environmental and Other Approvals, Licences and Permits

The Contractor shall obtain all necessary environmental and Construction Approvals, Licenses, and permits for the Works.

2.2.1.12 Temporary Facilities

- (i) Provision of temporary ventilation and lighting to the working areas.
- (ii) Pumping facilities to clear seepage water from tunnel invert and portal.
- (iii) Provision of temporary electrical, water and sewerage services relating to the Works.
- (iv) Provision of temporary waste disposal systems and facilities relating to the Works.
- (v) Erection of temporary boundary and security fencing and gates, and the provision of appropriate site access controls during the Contract.
- (vi) Landscaping and rehabilitation of works areas on completion.
- (vii) Flood warning and evacuation plan.
- (viii) First aid facilities.

2.2.1.13 Remedying of Defects in the Works

All defects as per the snag list will be remedied before a Certificate of Completion is issued.

2.2.2 Facilities to be Provided & Maintained

The provision of facilities for the duration of the construction period, as required under the Contract, is listed but not limited to the following subheadings:

-
- (a) Facilities to be provided by the Employer or Others, include:
- (i) Provision of services connections where available, such as electrical, potable water and sewage.
 - (ii) Provision of housing where available (to be confirmed at tender stage).
- (b) Facilities to be provided by the Contractor for the Engineer and the Employer, include:
- (i) Fully furnished and serviced housing/accommodation.
 - (ii) Site vehicle (4x4 double cab LDVs, number to be confirmed)
 - (iii) Office space with internet and communication connections
- (c) Facilities to be provided by the Contractor for the Works include:
- (i) Accommodation for their management staff and their labour.
 - (ii) Site vehicles.
 - (iii) Office space with internet and communication connections
 - (iv) Laboratory testing facilities.

The facilities, as described above and not limited to the preceding, shall be maintained under the terms of the Contract.

2.2.3 Occupational Health & Safety Requirements

Occupational Health & Safety Requirements under the Contract will be detailed in the Specifications, which will be issued in the Tender Document.

The Contractor shall have proven that they comply with the Occupational Health & Safety Requirements before commencement of construction.

2.2.4 Environmental Requirements

The Contractor shall develop an approved Environmental and Social Management Plan (ESMP) and perform the Contract in accordance with the EMP.

The Record of Decision (RoD) from the Department of the Environment, which approves the construction of the Works in accordance with the relevant environmental legislation and any specific RoD requirements, forms part of the ESMP.

The ESMP and the RoD place a specific emphasis on the protection of the environment in general, particularly the riverine environment, as well as site rehabilitation and landscaping requirements upon completion of the Works.

The Contractor shall be required to liaise with local communities through approved channels or forums as established by the Employer, and to comply with the requirements of the following LHWP Phase II protocols:

- (a) Land access.
- (b) Communications; and
- (c) Managing social and environmental impacts, particularly with reference to HIV/Aids Awareness and Human Trafficking.

2.3 CONSTRUCTION DURATION

It is estimated that the construction duration would be between 12 and 16 months.

3. EVALUATION OF EXPRESSION OF INTEREST

Respondents submitting an Expression of Interest must clearly demonstrate in their submissions that they:

- Understand the project requirements, the technical details, financial issues and legal issues.
- Have the technical capabilities and financial resources to execute the project successfully.

3.1 TECHNICAL RESOURCES AND CAPABILITIES

It is acknowledged that this project is unique in requiring multiple different engineering disciplines to execute, and that it is highly unlikely that a similar project has been successfully undertaken within the Southern African region over the past 30 years.

It is therefore not expected that any individual respondent will have comprehensive, specific experience relevant to all requirements of this project. The evaluation of the EOI's will thus be heavily influenced by the proposed key staff individual qualifications, experience, technical skills and resources to undertake the job. Where the technical skills required are not available within the respondent's organisation, they may form Joint Ventures and/or employ subcontractors.

3.1.1 Technical Capabilities

The respondents must submit an organisational profile detailing experience in multi-disciplinary engineering construction, showing experience of:

- Design and fabrication of steel structures.
- On-site installation of steel structures, inclusive of site welding in tight, wet and cold working spaces.
- Concrete works involving the placement of concrete in difficult-to-access places by pumping.
- Tube a Manchette, cavity and consolidation grouting.

Experience with grout filling a water-filled compartment against high-pressure water and displacing the water (displacement grouting) through the tap points will be considered advantageous.

3.1.2 Financial Resources

Respondents must submit financial statements that show their turnover for the past three years.

3.1.3 Personnel Qualifications and Experience

Technical capabilities shall be demonstrated by providing the CVs and qualifications of all key staff and skilled personnel (including proposed JV and subcontractor staff) who are critical to the successful

execution of the project. The CVs and qualifications shall highlight the applicable skills, training and experience.

The respondents must submit information about the following positions:

- **Project Manager / Site manager:**

Must be able to manage this unique assignment of different natures involving mechanical, structural and civil engineering disciplines while working in tight, difficult-to-access spaces.
- **Mechanical Engineer:**

Design a steel bulkhead and supervise the installation. The steel bulkhead shall be designed to comply with all aspects of DIN 19704, EN 1993 and normative references made therein.

Design and supervise hot tapping procedures.
- **Civil Engineer (Concrete):**

Plan and supervise the provision and erection of shuttering

Plan and oversee the production and placement of concrete.
- **Civil Engineer/Supervisor (Grouting):**

Plan and supervise the installation of tube a manchette (TAM) grouting pipes, including the grouting pumps and the execution of TAM grouting. Additionally, oversee cavity grouting, consolidation, and any other necessary grouting activities.
- **Welders:**

The welders must be qualified and competent to produce deep-penetrating, homogeneous, and durable welds that will withstand high water pressures while working in cold, wet, and restricted spaces.
- **Occupational Health and Safety Manager:**

Shall be conversant with the International and Lesotho Occupational Health and Safety Laws and Acts.
- **Environmental Manager:**

Shall be conversant with the international and Lesotho Environmental Laws and Acts.

3.1.4 Equipment

General Equipment:

- Concrete mixing plant
- Excavator
- Crane
- Generators
- Concrete Pumps
- Welding Equipment

Specialised equipment:

- Hot Tapping equipment capable of cutting holes up to 120mm diameter through a 35mm thick steel plate (BS4360 Grade 50D) into a pressurised compartment. The 35mm thick steel plate is located at the bottom end of two vertical standpipes (3.2m in length) with access at the top of the standpipes.
- Grouting equipment capable of grouting the pressurised compartment through the standpipes.
- Rock/Concrete drilling equipment capable of drilling holes to install 10m long 40mm diameter steel anchors (500/550 GEWI bars).
- All-terrain Telehandler or telescopic forklift to enable the installation of the steel bulkhead and to handle equipment and materials.

3.2 EVALUATION CRITERIA AND SHORTLISTING

Each timely and correctly submitted EOI will undergo a numerical assessment against the Evaluation Criteria listed in Attachment 5. Only the information provided in the EOI submission will be considered during the evaluation.

The Respondents whose Expressions of Interest score at least 70 points will be shortlisted. This shortlist will then be published on the LHDA website.

Only the shortlisted firms will receive a Request for Proposal (RFP) package to submit their proposals. The contract award is subject to the prior review and approval of the LHDA and the Lesotho Highlands Water Commission.

LHDA reserves the right to accept or reject all or any application, or to annul the expressions of interest at any time without incurring any liability to any applicant.

3.3 INELIGIBILITY

Any Expression of Interest received after the deadline will be automatically rejected, even if the postmark indicates a date before the deadline or if the delay is due to the mail service.

3.4 LHWP ANTI-CORRUPTION POLICY

The LHDA is committed to the LHWP Anti-Corruption Policy. The provisions of the Policy (see Attachment 6) will be integrated into the Contract, and all contractors and consultants will be required to adhere to it.

The respondent shall demonstrate that they have read the LHWP Anti-Corruption Policy, fully understand the policy, and comply with all its stipulations.

3.5 CONDITIONS OF CONTACT

The Conditions of Contract are the **“Conditions of Contract for Construction, For Building and Engineering Works Designed by the Employer, Multilateral Development Bank Harmonised Edition (2010)”** (Pink Book), published by the Fédération Internationale des Ingénieurs-Conseils (FIDIC).

The Respondent is considered to be familiar with the above Conditions of Contract, which shall form an integral part of the Contract and will be incorporated by reference.

4. JOINT VENTURE AGREEMENTS

Contractors may associate to enhance their qualifications. The “association” may (but is not required to) take the form of a Joint Venture. In the case of a Joint Venture (JV), all members of the JV will be evaluated jointly for shortlisting and shall be jointly and severally liable for the assignment. They shall sign the contract if an award is made to that JV group. Interested contractors should clearly indicate the structure of their association, including the duties of partners and subcontractors, in their application. Unclear expression of interests in terms of “in association with” and/or “in affiliation with”, etc., may not be considered for shortlisting. Please note that a firm shall submit only one EOI in the same selection process, either individually as a contractor, as a partner in a joint venture, or as a subcontractor to another firm. No firm can submit an EOI in more than one submission in the selection process for an individual contract.

5. CONTENTS OF EXPRESSION OF INTEREST (EOI) SUBMISSION

- (a) **Covering Letter** indicating the nationality and shareholding structure of the firm, legal status, and principal place of business. Covering letter shall also include an acknowledgement of the Lesotho Highlands Water Project’s Anti-Corruption Policy (included as an annexe hereto).
- (b) **Expression of Interest Details** (Attachment 1) – Completed Expression of Interest details as per the instructions provided. This area encompasses the roles of the firm(s) and the proposed organisational structure for the assignment.
- (c) **Specific Experience Details** (Attachment 2) – Completed Specific Experience details as per the instructions provided.
- (d) **Proposed Key Staff** (Attachment 3) – Completed details of proposed Key Staff, with attached CVs, as per the instructions provided. To enhance their qualifications, international contracting firms are encouraged to associate, form joint ventures, or subcontract with Southern African (i.e., South African- or Lesotho-based) firms, or otherwise engage local (Lesotho-based) employees.
- (e) **Proposed Equipment** (Attachment 4)– Completed list of the proposed key equipment detailing manufacturer, model, date of manufacture, owned or hired.
- (f) **Certified copies of company registration certificates**
- (g) **Letter(s) of Good Standing/Bank Reference Letter for all partner firms**
- (h) **Letter of intent to form a joint venture or certified copies of joint venture/association agreement**
- (i) **Certified copies of tax clearance certificate(s)**

ATTACHMENT 1: PROJECT ORGANISATION

Attachment 1 must follow the structure below.

ROLES

A brief outline (one (1) paragraph) indicating the roles of the participating firm(s).

For a Joint Venture submission, clearly list all participating firms and identify the specific areas of responsibility (including administrative, financial and the specific specialties) for each firm.

ORGANIZATIONAL STRUCTURE

Describe the organizational structure (two (2) pages maximum) for the project including:

- Organizational Structure for:
 - Project Management
 - Design
 - Construction

The description of the organization structure must be tied to the make of the project partners including sub-contractors and service providers.

- Allocation and description of tasks to be executed by the firm, JV partner, and/or sub-contractor.
 - Organogram
- The organogram must be tied to the Project Key Staff listed in Attachment 3: Proposed Key Staff.
- Reporting Relationships and interfaces with the Client.

ATTACHMENT 2: DETAILS OF SPECIFIC EXPERIENCE

Details of specific experience must follow the structure included in Table 2 below. Use additional copies of the table as required.

Table 2: Details of Specific Experience

1. Project name and location (City/Town, Country):
2. Project Description: <i>(Include project value and indicate relevance to this project)</i>
3. Project Key Staff and their responsibility on the project:
4. Project Owner's Name & Address and Project Owner Manager's Name & Phone Number:

ATTACHMENT 3: PROPOSED KEY STAFF

Details of specific experience must follow the structure below.

1. Proposed Project Team

- Include names and contributions of proposed project team using format of Table 3 below.
An individual candidate may be responsible for more than one Specialty.

Table 3: Proposed Key Staff

POSITION/ SPECIALITY	PROPOSED PERSONNEL	FIRM	QUALIFICATIONS	PROFESSIONAL REGISTRATION	YEARS OF SPECIFIC EXPERIENCE
Contractor's Representative / Project Director					
Project Manager/Site Manager (Katse)					
Mechanical Engineer					
Civil Engineer (Concrete)					
Civil Engineer/Supervisor Grouting					
Welders					
Occupational Health and Safety Manager					
Environmental Manager					
Other 1					
Other 2					
Other 3					

2. CVs of Key Staff

- Include CVs for each of the proposed personnel listed in Table 3 above using a format similar to below.
- Each CV must not exceed five (5) pages. Additional pages will not be considered.
- CVs to be submitted for all Key Staff.
- Add Other key staff as deemed relevant

Curriculum Vitae

1. **Name of Employee:**
2. **Proposed Position:**
3. **Company/Consortium:**
4. **Gender:**
5. **Nationality:**
6. **Date of Birth:**

7. Education

Name of Institution	Degree Obtained	Dates Attended
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8. Professional Registration

Name of Institution	Type of Registration	Dates Obtained
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9. Other Training

Name of Institution	Training Details	Dates Obtained
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10. Countries of Work Experience

Country	Dates (Start – End)
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11. Languages (Scale of 1-5: 1= excellent, 5 = poor)

Language	Speaking	Reading	Writing
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12. Employment Record *Starting with current position, list in reverse order every employment held by Expert since graduation, giving dates of employment, name of employing organization, positions and responsibilities held.*

Dates: start/end

Employer:

Position Held:

Location of Position:

Responsibilities:

13. Detailed Tasks Assigned: *Describe all tasks to be performed under this assignment.*

14. Relevant Experience *List job functions that best illustrate the individual's ability to perform the tasks assigned (including a maximum of ten projects).*

Project 1:

Dates: start/end

Locations:

Client:

Project Description:

Positions Held:

Activities Performed:

Project 2:

Dates: start/end

Locations:

Client:

Project Description:

Positions Held:

Activities Performed:

Project 3:

Dates: start/end

Locations:

Client:

Project Description:

Positions Held:

Activities Performed:

Certification

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience.

Furthermore, I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Finally, I hereby confirm my availability to commence work on this project, from January 2026.

Name of Candidate

Candidate's Signature

Date

ATTACHMENT 4: PROPOSED KEY EQUIPMENT

Details of the proposed key equipment must follow the structure in the table below.

Proposed key Equipment

- Include the details of key specialised equipment, quoting manufacturer/make, model, age or date of manufacture, relevant technical specifications.
- Add details of **Other** equipment deemed relevant to the project.

Table 4: Proposed Key Equipment

DESCRIPTION	MANUFACTURER AND MODEL	AGE/ DATE OF MANUFACTURE	TECHNICAL SPECIFICATIONS
Hot Tapping Equipment			
Welding Equipment			
Materials and Equipment handling plant			
Concreting and Grouting equipment including concrete and grouting pumps and mixers			
Drilling equipment for the forming of grout and anchor holes.			
Water and sludge pumps to remove excess water from the working areas			
Other 1			
Other 2			
Other 3			
Other 4			
Other 5			

ATTACHMENT 5: EVALUATION CRITERIA

Expression of Interest will be evaluated according to the criteria in the following tables:

No.	Criterion - Project Organisation		Maximum Score
1	Description	Criteria	15
1.1	Company history and general experience.	Evaluated on how long the firm has been in business and the relevancy of experience	3
1.2	Organisational Structure - The Respondent shall provide an organisational chart depicting the proposed organisational structure, clearly identifying the functional relationships of all members of the JV (in the case of a JV) and Subcontractors, highlighting their specific roles and responsibilities in the execution of the Contract.	Evaluation will be on completeness and relevance	3
1.3	Organogram of project staffing including Safety, Health, Environment and Quality (SHEQ) managers - Respondent shall provide an organogram depicting the Key personnel to be engaged on the project, both on site and from the Tenderer's head offices. The organogram shall include the Key staff proposed and consider the scale and complexity of the Works entailed.	Evaluation will be on completeness and relevance	6
1.4	Financial ability to undertake the services to be provided	Annual Turnover up to R100 million = 1 pt R100 Million to R200 Million = 2 more than R200 Million = 3	3

No.	Criterion - Key Personnel			Maximum Score
2	The Respondent shall demonstrate that the proposed Key Personnel satisfy the minimum experience requirements specified below. All staff shall be proficient in the English language. Key personnel will be mobilised as required, in accordance with the construction programme. Scores for the following positions will be based on the relevant experience, magnitude, and complexity of the projects, as well as the roles the personnel have played in these projects. The respondent shall provide supporting documentation (certified copies of certificates) for proof of qualifications. The proposed candidate MUST endorse all CVs. Marks will be deducted for incomplete CV submissions.			50
Item	Key Position	Experience	Criteria	
2.1	Contractor's Representative / Project Director	Multi-disciplinary projects	Will be evaluated on qualifications, training and relevant experience (number of projects and years) For positions 2.1 to 2.6 experience of 5 years will be considered with 10 years and more preferred. For positions 2.7 and 2.8 experience of 3 years will be considered with 5 years and more preferred.	4
2.2	Project Manager/Site Manager (Katse)	Dams/underground concrete and grouting projects		8
2.3	Mechanical Engineer	Steel design and fabrication, on-site welding, NDT, hot-tapping and quality control projects.		8
2.4	Civil Engineer (Concrete)	Concrete and grouting projects		8
2.5	Civil Engineer/Supervisor Grouting	Grouting projects		8
2.6	Welders	Steel fabrication, on-site welding, working in closely confined, wet and cold Spaces		6
2.7	Occupational Health and Safety Manager	Underground experience will be preferred		2
2.8	Environmental Manager	Lesotho Experience will be preferred		2
2.9	Support staff deemed relevant to be added by Respondent	Lesotho Experience will be preferred		4

No.	Criterion Contractor's Key Equipment –		Maximum Score
3	The Respondent shall indicate specific items of equipment, models, and quantities to be mobilised for this project and suggest whether the Tenderer owns each or will be leased/hired for the contract. A 'print-out' of the company equipment schedule is not acceptable. Equipment items to be evaluated are:		35
Item	Equipment	Criteria	
3.1	Drills with stuffing boxes / annular preventors for drilling into pressurised zones i.e. Hot tapping equipment	This category will be evaluated on the availability and suitability of the equipment as shown in the submission. Where a respondent show clear understanding of the function of the equipment and references equipment fully by make, model and technical specification and clear indicates the suitability he will scored high marks. Where the equipment is insufficiently detail and is clearly not suitable low marks will be scored	5
3.2	Materials and Equipment handling plant; e.g. extension rigs for holding the bulkhead in place for welding, man-rider-basket extension to allow work and inspection in the high out of reach areas of the tunnel, and equipment for removing mechanical equipment from Gate operating gallery		5
3.3	Power supply, lighting and ventilation equipment and controls		3
3.4	Drilling equipment for the formation of grout and shear reinforcement in the receiving hole.		3
3.5	Concreting and Grouting equipment including concrete and grouting pumps and mixers		3
3.6	Welding equipment including power supply, surface preparation, temperature and humidity control and weld QC equipment		3
3.7	Water and sludge pumps to remove excess water from the working areas		3
3.8	General Construction Equipment		10

ATTACHMENT 6: LHWP ANTICORRUPTION POLICY

LHWP ANTI-CORRUPTION POLICY - 2019

Adopted by the Lesotho Highlands Water Commission in January 2019

1. This Policy has been adopted pursuant to Article 16 of the Agreement on Phase II of the Lesotho Highlands Water Project between the Government of the Kingdom of Lesotho and the Government of the Republic of South Africa.

Definitions:

2. In this Policy:
 - 2.1. the Lesotho Highlands Water Project will be referred to as the Project and includes Phases IA, IB and II thereof;
 - 2.2. the Project Authority includes the Lesotho Highlands Water Commission ("the LHWC") and the Lesotho Highlands Development Authority ("the LHDA");
 - 2.3. employees of the Project Authority include employees and board members of the LHDA and employees of and delegates to the LHWC;
 - 2.4. in the context of this Policy, an agent is not a *bona fide* business, practice or individual which provides facilitation services to consultants and contractors for the purposes of registration with government authorities and for obtaining the necessary licenses, permits and clearances to practice within the Kingdom of Lesotho (e.g. Income tax clearance, trading license, work permits, etc.). In the context of this Policy, such facilitators are legitimate service providers for purposes of assisting consultants and contractors to comply with the legal requirements for permitting, licensing and registration.

Background:

3. Phases IA and IB of the Project were tainted by corruption which caused the integrity of the Project to be undermined and questioned.
4. Despite the best efforts of the Lesotho prosecuting authorities, working in conjunction with the Project Authority, and by reason of the insidious nature of corruption, the full extent of the corruption in connection with these Phases is not known, nor the identity of each and every entity or individual involved.

5. In the light of these experiences the Phase II Agreement provides in Article 16 for the development and adoption of an Anti-Corruption Policy for the Project.

Principles:

6. All persons or entities involved in the Project must observe the highest standards of compliance and ethics.
7. The Project Authority shall take all appropriate measures to combat corruption in all its forms.
8. All contracting parties or entities, and persons otherwise involved in the Project, shall take all appropriate measures to prevent and combat corruption and to refrain from engaging in corruption in connection with their involvement in the Project.

Application of Policy:

9. The provisions of this Policy shall apply to all contractors and consultants involved in the Project, including the pre-qualification of bidders and tenderers (where applicable), the evaluation of bids and tenders and the award of contracts.
10. Henceforth every contract entered into under the Project shall provide for the incorporation of this Policy into such contract.
11. The provisions of this Policy shall apply to the employment and the conduct of employees of the Project Authority.
12. The provisions of this Policy shall apply to recipients of compensation in terms of the Project.
13. For the purposes of this Policy corruption shall include the following:
 - 13.1. A “corrupt practice”, such being the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of any person or entity in connection with the Project.
 - 13.2. A “fraudulent practice”, such being any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, any person or entity in connection with the Project, to obtain a financial or other benefit or to avoid an

obligation.

- 13.3. A “collusive practice”, such being an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of any person or entity in connection with the Project. Such practices may include:
- 13.3.1. Personal conflict of interest (Col) as defined in the **Procedure for Dealing with Conflict of Interest** (copy attached); or
 - 13.3.2. Corporate conflict of interest, where two or more firms are engaged in joint pursuits elsewhere with a common business goal such that the firm or its employees “have the potential or ability to influence or be influenced in their judgement or evaluation of an offer, bid or tender of one of the firms engaged with them elsewhere such that the evaluation/assessment cannot be completely impartial/unbiased and objective”; or
 - 13.3.3. Perceived conflict of interest, defined as “when a third party observing the procurement process considers the process to be influenced or biased based on the perception of business or other relationships between the corporate entities”.

13.4. A “coercive practice”, such being impairing or harming, or threatening to impair or harm, directly or indirectly, or to influence improperly, any person or entity in connection with the Project.

13.5. An “obstructive practice”, such being:

13.5.1. the destroying, falsifying, altering or concealing of evidential material relevant to an investigation, as referred to in paragraphs 29 and 30 hereunder, or the making of false statements to investigators in order to materially impede such investigation; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to such investigation or from pursuing such investigation; or

13.5.2. acts intended to materially impede the exercise of the Project Authority’s right to access to information, as referred to in paragraphs 29 and 30 hereunder.

Participation in Contracts:

14. Where a contractor or consultant, or any employee or former employee of such contractor or consultant, or any individual, was previously involved or implicated in corruption, such contractor, consultant or individual may be excluded from any involvement in the Project. Such exclusion will be at the sole discretion of the Project Authority based on a reasonable assessment of all the facts at its disposal.

15. Any contract awarded in relation to the Project will commit the contractor, consultant or individual concerned not to involve itself or himself in corruption, whether relating to the specific contract or not, concerning any employee of the Project Authority or any other entity or person having an interest in the Project.

16. The Project Authority in dealing with the pre-qualification of bidders and tenderers, the evaluation of bids and tenders, as well as the award of contracts, will have regard to the use of agents by contractors or consultants, both in the procurement or execution of previous contracts as well as their intended involvement in the Project. Here the Project Authority will be entitled to assume,

unless shown otherwise, that such use or intended use of agents involved or will involve corruption.

Confidential Business Information/Client Privilege

17. Confidential Business Information (CBI) shall include all forms of client privilege information pertaining to fees, cost estimates, engineering design, specifications, method statements, reports, prototypes, bid and tender evaluation reports, etc. All CBI shall be protected by signed declarations by all individuals engaged on the Project or contracted to the Project Authority for purposes of carrying out professional services related to the implementation of Phase II. Such declarations shall take the form of Non-Disclosure Agreements (NDA) which will be signed by the other party and retained by the Project Authority. Examples are attached.

Specific Obligations of Prospective Contractors and Consultants:

18. Every prospective contractor or consultant shall at the earliest opportunity in any bid or tendering process disclose to the Project Authority any prior involvement by it or any of its current or former employees in corruption.
19. Every prospective contractor or consultant shall disclose both its past and present use of agents in the procurement or execution of contracts and such disclosure will specifically include the contractual arrangement with such agent including the basis upon which such agent was or will be remunerated.
20. Every prospective contractor or consultant shall at the earliest opportunity in the bidding or tendering processes or at any point during the execution of a contract, disclose to the Project Authority any conflict or potential conflict of interest, whether personal or corporate, whether real or perceived, including but not limited to any employee of the Project having an interest, financial or otherwise, in the contractor or consultant or such contractor's or consultant's proposed involvement in the Project.
21. All contractors and consultants, as well as their employees and agents, as well as employees of the Project Authority, involved in the Project, shall commit themselves to taking all appropriate measures to prevent corruption and shall immediately report to the Project Authority any corruption that comes to their attention, and any failure to so report shall be deemed to constitute corruption.

22. The Project Authority shall do everything in its power to protect the identity of employees who act in terms of their aforesaid obligation to report instances of corruption. In addition, the Project Authority shall seek to ensure that such employees are not victimised or otherwise discriminated against as a result of their so reporting.
23. The Project Authority has implemented a “Whistle-blower” policy which shall be available for anonymous reporting of corrupt or perceived corruption to ensure early warning and reaction by the Authority. All reports shall be treated as confidential and will provide protection/asylum to any party making a disclosure.
24. All contractors and consultants, as well as their employees and agents, as well as employees of the Project Authority, involved in the Project, shall, if called upon to do so, fully co-operate with the Project Authority and/or the Lesotho Director of Public Prosecutions or any person

designated by him, in any investigation into allegations of corruption, whether against them or their employee or agent, or against any other entity or person.

Sanctions:

25. In addition to any contractual rights in terms of specific contracts, the Project Authority shall have the right to cancel any contract under the Project in the event that the award of such contract or its execution is shown to have involved corruption. The Project Authority shall be entitled to exercise this right once it is reasonably satisfied on the information at its disposal that such corruption has indeed occurred. It will not however exercise such right without giving the contracting party involved a reasonable opportunity to refute any allegation or evidence of corruption levelled against it.
26. Any breach of this Policy by an employee of the Project Authority shall be deemed a material breach of his or her conditions of employment.
27. Compliance with this Policy through early disclosure will not necessarily result in punitive action or disqualification but will be subject to the ruling and determination of the Project Authority's Conflict of Interest Committee or legal counsel.
28. Determination of a Conflict of Interest is by the Project Authority and not by the respondent.

Investigation and Access to Information:

29. The Project Authority shall have the right, in the event of allegations of corruption against any contractor or consultant, or any of their employees, former employees or agents, as well as employees of the Project Authority, to investigate such allegations, and such right shall include the right of access to the said entity or person's records and/or other evidential material which in the opinion of the Project Authority may be relevant to such investigation.
30. The entity or person referred to in paragraph 29 shall be obliged to fully co-operate with any such investigation and shall make available to the Project Authority any records or other evidential material as the Project Authority may require for purposes of such investigation.
31. The investigation referred to in paragraphs 29 and 30 shall be conducted by independent investigators appointed by the LHDA Board or the LHWc.

Training and Compliance:

32. The Project Authority will require that all employees, consultants and contractors undergo Ethics and Compliance training at the commencement of services and shall undergo annual refresher courses for as long as the individual/entity is engaged on the Lesotho Highlands Water Project Phase II. The Project Authority will direct and cause to be presented appropriate training and will conduct regular audits to ensure compliance by consultants and contractors on the Project.

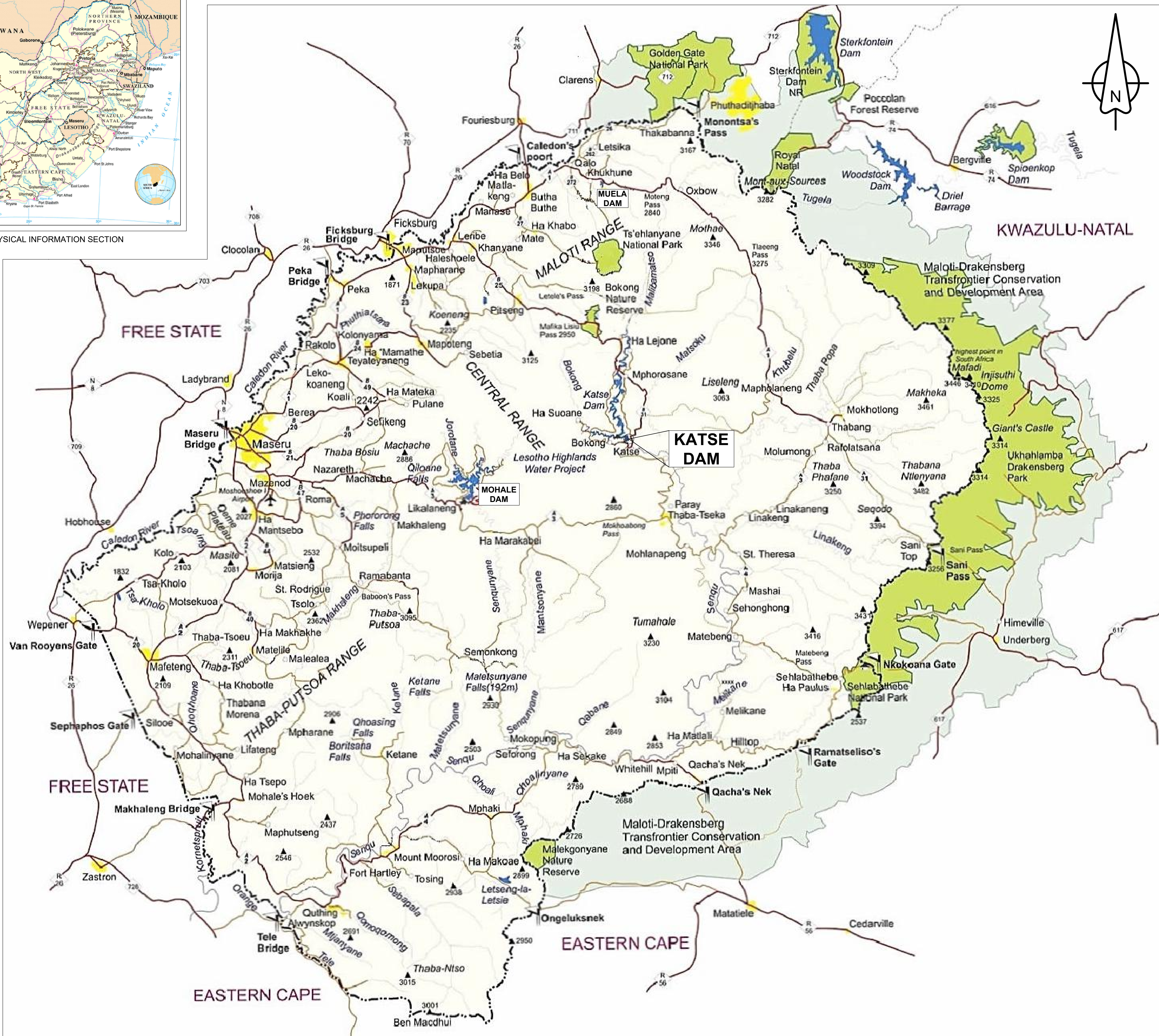
ATTACHMENT 7: PROJECT LOCALITY MAPS

2193 T G G 0010 A LOCALITY MAP - PROJECT AREA

2193 T G G 0011 A LOCALITY MAP - WORKS AREA & SITE - GENERAL ARRANGEMENT



SOURCE: UNITED NATIONS, GEOPHYSICAL INFORMATION SECTION



SOURCE: WWW.VISITLESOTHO.TRAVEL

NOTES:

1. SURVEY DATUM IS THE LHWP Lo29 TUNNEL SYSTEM
2. ALL LEVELS IN METRES ABOVE SEA LEVEL (M.A.S.L.).
3. NO DIMENSIONS TO BE SCALED OFF DRAWING.

FOR TENDER

1	15-12-22	ISSUED FOR TENDER			JHB	JHB	DH	DH
Rev	Date	Revision			Drwn	Dsgn	Appd	Autl
Designer Johan Badenhorst		Chief Design Engineer David Hughes			Project Manager David Hughes			
Sign:		Sign:			Sign:			

CLIENT:



LESOTHO HIGHLANDS
DEVELOPMENT
AUTHORITY

CONSULTANT:



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PROJECT:

**LESOTHO HIGHLANDS
WATER PROJECT
CONTRACT NO: 2193
KATSE DIVERSION TUNNEL
NO. 2 PLUGGING**

TITLE:

KATSE PLUG LOCALITY MAP

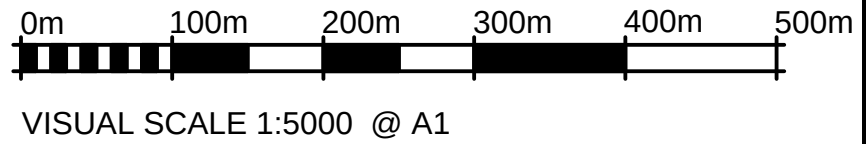
SCALE: NOT TO SCALE SHEET SIZE: A1

COMPONENT CONTRACT NO. CYCLE SECTION DISCIPLINE DRAWING NO. REVISION
W-2193-T-G-G-0010-A



- NOTES:
1. SURVEY DATUM IS THE LHWP L629 TUNNEL SYSTEM.
 2. ALL LEVELS IN METRES ABOVE SEA LEVEL (M.A.S.L.).
 3. NO DIMENSIONS TO BE SCALED OFF DRAWING.
 4. TOPOGRAPHICAL INFORMATION IS FROM THE 2018 LIDAR SURVEY CAMPAIGN CARRIED OUT FOR THE LHWP PHASE 2.
 5. BACKGROUND IMAGE AVAILABLE WITH AUTODESK.
 6. THE 1 IN 10 RECURRENCE FLOOD LINES WERE DETERMINED FOR THE NATURAL CATCHMENT RUN-OFF (PRIOR TO THE KATSE DAM CONSTRUCTION) USING DATA FROM THE KATSE DAM DESIGN REPORTS.

FOR TENDER



1	10-03-23	ISSUED FOR TENDER			JHB	JHB	CV	DH	
Rev	Date	Revision			Drwn	Dsgn	Appd	Auth	
Designer		Chief Design Engineer			Project Manager				
Johan Badenhorst		David Hughes			David Hughes				
Sign:		Sign:			Sign:				

CLIENT:



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PROJECT:

**LESOTHO HIGHLANDS
WATER PROJECT
CONTRACT NO: 2193
KATSE DIVERSION TUNNEL
NO. 2 PLUGGING**

TITLE:

**WORKS AREA AND SITE
GENERAL ARRANGEMENT**

SCALE: 1:5000 SHEET SIZE: A1

W-2193-T-G-G-0011-A

ATTACHMENT 8: PROJECT PICTURES

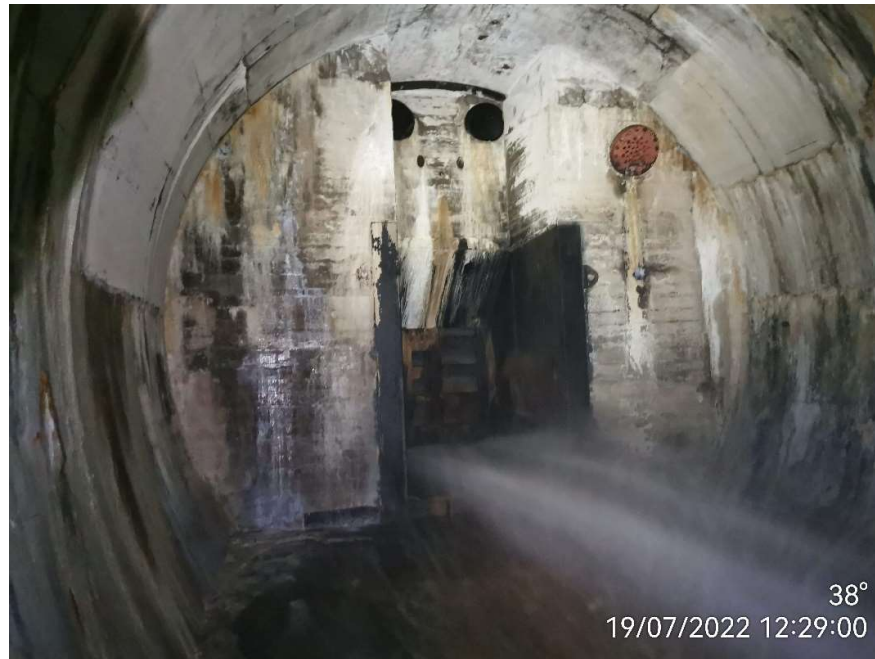


Figure 1: Leaking Sluice Gate

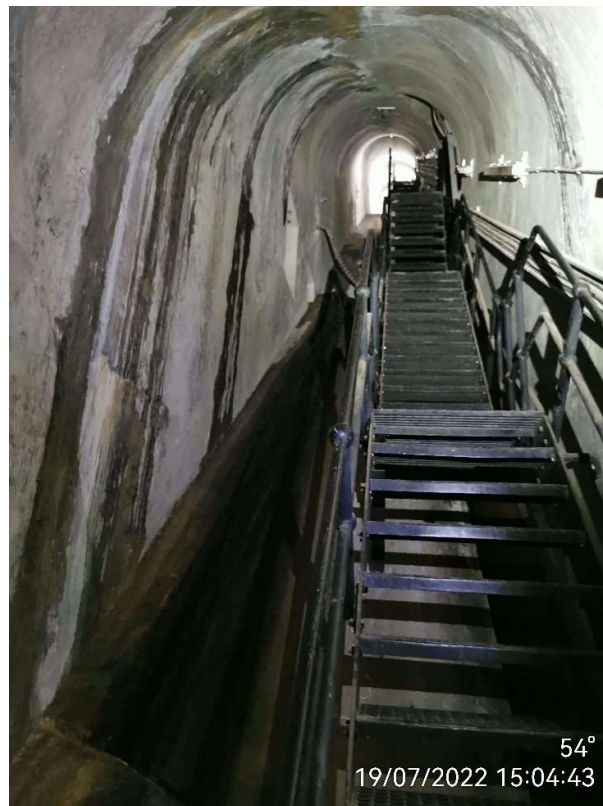


Figure 2: Access in Dam Gallery



Figure 3: Diversion Tunnel No.2 Portal



Figure 4: Mechanical Equipment to be Removed