



ON BEHALF OF THE WESTERN CAPE DEPARTMENT OF AGRICULTURE

TENDER: 10/2026

CONSTRUCTION OF REINFORCED CONCRETE LABYRINTH EROSION CONTROL WEIR AT ALLEMANSFONTEIN, MURRAYSBURG DISTRICT

AUGUST 2026

CONTRACTOR	 (NAME OF CONTRACTOR)
BID AMOUNT	

CASIDRA SOC LTD

22 Louws Avenue
Southern Paarl
Western Cape
7646

Tel 021 863 5000

For office use only	Version no: 2	Date: 8 December 2021	
To be signed upon appointment of winning bidder to form the agreement between the parties			
Signature for Casidra		Signature for Contractor	

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GENERAL REQUIREMENTS

The works, as described, is part of the Disaster Management Programme for Allemansfontein situated Murraysburg District of the Western Cape. It is north east of the R61 connecting the N1 to Murraysburg. The bid will be a measured bid for the works described and is to include material, labour and machinery. The works must be completed within an **8-month** (definition as defined further) contract period.

The scope of works entails the construction of a **reinforced concrete labyrinth weir** located at Allemansfontein Farm situated in Murraysburg.

Bidders must have a CIDB contractor grading designation of **6 CE** or higher.

The tender process is as follows:

BID DEADLINE: The closing date for the bid is **Tuesday 8 September 2026 strictly at 12H00.**

Bids must be submitted in a sealed envelope marked as **"BID 10/2026" – CONSTRUCTION OF REINFORCED CONCRETE LABYRINTH EROSION CONTROL WEIR AT ALLEMANSFONTEIN, MURRAYSBURG DISTRICT** and placed in the tender box available at Reception, Casidra's Head Office, **22 Louws Avenue, Southern Paarl**. No e-mailed, faxed, counter-to-counter courier or posted bids will be accepted.

It is preferred that bid document must be bound. Casidra cannot accept responsibility for lost single or stapled pages.

There will be a **compulsory site meeting**. The meeting will be held at the **Allemansfontein Farm situated the Murraysburg District of the Western Cape. It is north east of the R61 connecting the N1 to Murraysburg (GPS Co-ordinates: 31° 45'24.07"S, 23°38'42.15"E) on 19th August 2026 at 11:00.**

Any deviations from the original tender document will be sent out as an addendum to the contractors attending the compulsory site meeting.

All queries should be referred to Supply Chain at tender@casidra.co.za

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LIST OF DOCUMENTS

The following documents form an integral part of this contract:

A. OBTAINABLE FROM THE S.A. FEDERATION OF CIVIL ENGINEERING CONTRACTORS AND THE SOUTH AFRICAN BUREAU OF STANDARDS, AS APPLICABLE.

1. General Conditions of Contract for Construction Works (Third Edition) 2015.
2. The Standardised Specifications for Civil Engineering Construction of the S.A. Bureau of Standards as listed in the project specification.

B. ISSUED TO TENDERERS

3. This document described as **BID 10/2026**
4. Baseline Risk Assessment
5. Health and Safety Specification
6. WULA authorisation
7. Environmental Management Plan (EMPR)
8. General specification for river rehabilitation works Rev 1 April 2016
9. The following loose drawings:

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SRS 2023-2-001	: Allemans Project location
SRS 2023-02-002	: List of drawings
SRS 2023-02-003	: Project layout
SRS 2023-02-004	: Setting out coordinates rev1
SRS 2023-02-005	: Labyrinth plan rev1
SRS 2023-02-006	: Labyrinth sections rev1
SRS 2023-02-007	: Labyrinth wall details
SRS 2023-02-008	: Shoulder wall plan
SRS 2023-02-009	: Shoulder wall sections rev1
SRS 2023-02-010	: End wall rev1
SRS 2023-02-011	: Labyrinth foundation dowels rev1
SRS 2023-02-012	: Reinf Key to reinforcement drawings rev1
SRS 2023-02-013	: Reinf Apron 1-3 lower reinforcement layers rev1
SRS 2023-02-014	: Reinf Apron 1-3 upper reinforcement layers rev1
SRS 2023-02-015	: Reinf Apron 1-3 sections reinforcement rev1
SRS 2023-02-016	: Reinf Apron 4 lower reinforcement rev1
SRS 2023-02-017	: Reinf Apron 4 lower reinforcement rev1
SRS 2023-02-018	: Reinf Apron 4 sections reinforcement rev1
SRS 2023-02-019	: Reinf Walls 1-6 plan reinforcement rev1
SRS 2023-02-020	: Reinf Walls 1-6 sections reinforcement rev1
SRS 2023-02-021	: Reinf Walls 7-8 plan reinforcement rev1
SRS 2023-02-022	: Reinf Walls 7-8 sections reinforcement rev1
SRS 2023-02-023	: Reinf Shoulder wall plan reinforcement rev1
SRS 2023-02-024	: Reinf Shoulder wall sections reinf rev1
SRS 2023-02-025	: Reinf Developed side view of shoulder and training walls rev1
SRS 2023-02-026	: Lower apron reinforcement
SRS 2023-02-027	: Reinf End wall plan and elevation rev1
SRS 2023-02-028	: Reinf End wall sections rev1
SRS 2023-02-029	: Bending schedule 1 Aprons 1-3 rev1
SRS 2023-02-030	: BS 2 Bending schedule 2 Spillway walls 1-6 rev1
SRS 2023-02-031	: Bending schedule 3 Spillway walls 7 and 8 and end-wall rev1
SRS 2023-02-031	: BS 3 Spillway walls 7 and 8 and end-wall rev1
SRS 2023-02-032	: Bending schedule 4 Apron 4 rev1
SRS 2023-02-033	: Bending schedule 5 Shoulder wall rev1
SRS 2023-02-034	: Bending schedule 6
SRS 2023-02-035	: Bulk earthworks
SRS 2023-02-036	: Fencing
SRS 2023-02-037	: Silt net and brush packing
SRS 2023-02-038	: Earth bank

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SECTION 1: TENDER:10/2026

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SECTION 2: TENDER DATA

TD 1.1 UNIT PRICES

The Contractor shall enter a rate to each item in the schedule of quantities, whether quantities are stated or not.

The Contractor may not group items together and tender one lump sum for such group of items. The Contractor also may not indicate against any item that full compensation for such item has been included in another item. A rate of R0-00 shall be assumed for such items.

All rates shall **exclude** value added tax (VAT). Separate provision has been made in the summary of the schedule of quantities for the payment of value added tax. The final amount payable to the Contractor for value added tax shall be based on the final certified contract price.

The tendered rates and amounts shall however **include** all levies and other taxes and duties on all items to which they apply.

TD 1.2 CORRECTION OF RATES

The tendered amount will remain unchanged; however, the correction of arithmetical errors will be done by the adjustment of the rate or item price (or both) and will be done before the award of the contract to the successful bidder.

All tenders will thus be subjected to a rates analysis. If there are items which are not market related, they will also be adjusted in agreement with the bidder before the successful award of the contract to the successful bidder.

TD 2 FORM OF TENDER

All tenders shall be submitted on the offer portion of the Form of Offer and Acceptance incorporated into this document. The form of tender shall not be removed from this document. The complete document with all schedules duly completed and signed shall be submitted before the closing date and time of tender. The completion period shall be clearly stated on the appendix to the form of tender.

Mistakes made by the Contractor in the completion of the schedule of quantities, forms, etc., shall not be erased. A line shall be drawn through the incorrect entry and the correct entry shall be written above and the correction initialled by the Contractor. The

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use of correction products such as Tipp-Ex is strictly forbidden. Failure to observe this rule may lead to the tender being disqualified.

TD 3 **CHECKING OF TENDER DOCUMENTS**

The Contractor shall satisfy himself that the set of contract documents is complete and in accordance with the index. If any page has been omitted or duplicated, or if the script or dimensions, or anything else in the contract documents is indistinct, or if doubt exists as to the meaning of any description, or if the contract document contains any obvious errors, the Contractor shall immediately notify the Employer's Agent accordingly, in writing, so that such discrepancy or indistinctness can be clarified and rectified, as the Employer or the Employer's Agent will not accept any responsibility or consider any claim in connection with such discrepancy or indistinctness, which are not rectified during the tender period.

The Contractor shall rectify, at his own cost, any work not complying with the contract documents and drawings due to the incorrect interpretation of the specifications and drawings.

TD 4 **PERIOD OF VALIDITY**

Tenders whether for a part of or for the whole of the works shall remain valid for a period of **90 days** after closing date of tenders.

TD 5 **ACCEPTANCE OR REJECTION OF TENDERS**

The Employer does not bind himself to accept the lowest or any tender and reserves the right to accept any tender. No reason for the acceptance or rejection of any tender will be given.

The outcome of the bid will be communicated to the bidders on their outcome except for the publication on e-tender and CIDB websites. Enquiries on the outcome can be made to the project manager as to improve the bidder's competitiveness, ensure correct and complete bids for future reference.

TD 6 **ELIGIBILITY**

Only the contractors who comply with the following prescribed bidding criteria are eligible to submit a bid.

TD 6.1 **CIDB Registration**

CIDB grading (for "construction" projects with a value of more than R500 000 only)
"construction": in terms of this requirement of the CIDB Act means; the provision of a combination of goods and services arranged for the development, extension, installation, repair, maintenance, renewal, removal, renovation, alteration, dismantling, or demolition of a fixed asset including building and Employer's Agenting services.

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Only those bidders who are registered with the CIDB, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with Table 5 of the Construction Industry Development Regulations, for a **6 CE** class of construction work, are eligible to have their tenders evaluated.

Joint ventures are eligible to submit tenders provided that:

1. Every member of the joint venture is registered with the CIDB;
2. The lead partner has a contractor grading designation in the (above indicated) class of construction work;
3. The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with Table 9 of the Construction Industry Development Regulations.

Proof of registration must be appended to **Annexure G**.

Further Joint Venture criteria

- Tenders to note that if a joint venture is submitted, a JV CIDB contract must accompany this bid.
- The joint Venture must clearly state the percentage split of responsibilities and also list all the responsibilities / duties of each member of the Joint Venture.
- The work and obligations making up the contract must be broken down into discrete elements, or sections, usually on the basis of locality, the nature of the work, or the capabilities and resources required.
- Each element is assigned to a specific member of the joint venture who assumes full responsibility for its execution, under the direction of the joint venture must be indicated.

Failure to submit above information, if submitting a Joint Venture bid, will mean disqualification of the bid.

TD 6.2

TAX CLEARANCE CERTIFICATE REQUIREMENTS

It is a condition of bid that the taxes of the successful bidder **MUST** be in order, or that satisfactory arrangements have been made with the South African Revenue Service (SARS) to meet the bidder's tax obligations.

In order to meet this requirement, bidders must ensure that they are registered on the CSD and their tax status on the CSD are indicated as compliant.

In bids where Consortia / Joint Ventures / Sub-Contractors are involved, each party must submit a separate CSD registration and tax status.

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If a discrepancy exist between the CSD and the SARS eFiling of the supplier, then a printed version of the Tax Clearance Certificate must be supplied by the supplier and the eFiling PIN number for verification of authenticity by **Casidra** on the SARS website.

Foreign suppliers with no tax obligation in South Africa must request from **Casidra** and complete a form SBD1 that will be submitted to SARS for verification and issuing of a Confirmation of Tax Obligation letter.

TD 6.3 **EVALUATION OF THE BID**

The awarding of bids is dependent on the special evaluation criteria as set out in the policies of **Casidra**. The evaluation criteria of this Preferential Procurement Policy is based on the “**Preferential Procurement Policy Framework (Act 5 of 2000)**” and related Regulations and updates.

Awarding of the bid is dependent on a preferential points system, and every presentation is measured against the specific evaluation criteria as indicated.

Final points awarded to bid = (B) Price Max 80% + (C) B-BBEE Max 20%

In accordance with **Casidra’s** Preferential Procurement Policy, this bid as further indicated under TD 6.7 is subject to:

- **B-BBEE certified bids will receive preferential scores.**

Please note that the bids will also be evaluated based on the viability of the price. All suitable prices will fall within 20% of the median of the compliant bids. In other words, if any compliant bid falls outside of this interval, it will be regarded as non-complaint on the basis of having a non-viable price.

TD 6.4 **DETAILED COMPANY PROFILE**

It is compulsory for this bid for the contractor to attach a **DETAILED & COMPREHENSIVE** company profile including core competencies of personnel. The company profile must summarize information about your organisation.

In order for a company profile to be compliant for this bid, the following detail **MUST** be included in the company profile:

1. Company core business activities – Describe your products and services and markets in which you operate.
2. Company background – State number of years in business, location, history of company, etc.
3. Company resources – Number of employees, core competencies of personnel, structure of company – organogram.

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TD 6.5 **SECTION A: FUNCTIONALITY REQUIREMENTS**

Functional refers to: A service or product that is designed to be practical, useful, working or operating, taking into account factors like quality, reliability, viability, and durability and the technical capacity (time and resources) and ability (knowledge and skills) of the contractor to execute the works.

An offer that does not obtain the minimum score for each functionality criterion or the minimum weighted average for functionality as indicated, is not an acceptable tender.

Is this tender subject to the evaluation of functional requirements? **NO**
(**Casidra** to indicate)

If "YES", the following criteria will be used for evaluation:

TD 6.6 **Section B – Formula for Awarding of Price Points** (Only to be considered if Section A has met the minimum requirement)

Unconditional discounts offered will be taken into account for determining the following point:

$$Point = 80 \left[1 - \frac{Price - P_{min}}{P_{min}} \right] \text{ where } P_{min} \text{ is the lowest acceptable bid}$$

TD 6.7 **SECTION C – B-BBEE CONTRIBUTION**

An **EME** must submit a valid, fully completed, **original, certified, dated and signed sworn affidavit** (no photostat copies of certification allowed) confirming annual turnover and level of black ownership or an affidavit issued by Companies Intellectual Property Commission (accounting officer for a Closed Corporation).

If a **start-up EME**, a **clear, originally certified copy**, of B-BBEE certificate issued by the CIPC for EME-s only is accepted.

A **QSE that is less than 51% (50% or less) black owned** must be verified in terms of the QSE scorecard issued via Government Gazette and submit a

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clear, valid, originally certified copy of a B-BBEE Verification Certificate issued by SANAS.

A ***QSE that is at least 51% black owned (51% or higher)*** must submit an **original, certified, dated and signed sworn affidavit** confirming turnover and level of black ownership as well as declare its empowering status or an affidavit issued by Companies Intellectual Property Commission.

A ***large enterprise*** must submit a **clear, valid, originally certified copy** of a B-BBEE Verification Certificate issued by a verification agency accredited by SANAS.

A **trust, consortium or joint venture**, will qualify for points for their B-BBEE status level as a legal entity, provided that the entity submits their B-BBEE status level certificate.

A **trust, consortium or joint venture** (including unincorporated consortia and joint ventures) must submit a consolidated B-BBEE status level verification certificate for every separate tender.

Tertiary institutions and public entities will be required to submit their B-BBEE status level certificates in terms of the specialized scorecard contained in the B-BBEE Codes of Good Practice.

Bids of non-compliant contributors (no certificate) will be considered, but no points will be awarded for B-BBEE status.

The generic threshold for EME are R10 million, but depending on the sector, the threshold as set in the BEE charter for that sector will apply. (Tourism R2.5mill and Construction R1.5 mill)

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B-BBEE Status level of contributor	Number of points	Points awarded	BEE recognition level
1	20	EME & QSE 100% Black owned For office use	135%
2	18	EME & QSE 51% + Black owned For office use	125%
3	14	For office use	110%
4 and EME	12	EME 51% < Black owned For office use	100%
5	8	For office use	80%
6	6	For office use	60%
7	4	For office use	50%
8	2	For office use	10%
Non-compliant contributor	0	For office use	0%

Sub-contracting

Excluding any subcontracting requirements as a condition of tender, as indicated in CBD 1, the following general condition apply:

A Maximum of 25% of the value of the contract may be subcontracted without proof of the subcontractor B-BEE status:

- unless with proof of a subcontractor with equal or better B-BBEE points
- unless the subcontractor is an exempted micro enterprise with the capacity and ability to execute the subcontract.

In event of the above, full disclosure by the contractor must be made in the bid documents to **Casidra** with full details on the subcontractor as well as proof of the capacity and ability of the subcontractor to execute the work. Subcontracting a portion of the tender, without disclosure and approval by **Casidra**, the Contractor can be penalised up to 10% of the value of the contract.

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“construction”: in terms of this requirement of the CIDB Act means; the provision of a combination of goods and services arranged for the development, extension, installation, repair, maintenance, renewal, removal, renovation, alteration, dismantling, or demolition of a fixed asset including building and Employer’s Agenting services.

Only those bidders who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with Table 5 of the Construction Industry Development Regulations, for a **6 CE** class of construction work, are eligible to have their tenders evaluated. Within the framework of a targeted development programme and compulsory subcontracting objectives, **Casidra** may accept tender offers from a contractor who is registered as a potentially emerging enterprise that is one designation lower than the advertised class of construction work.

Joint ventures are eligible to submit tenders provided that:

1. Every member of the joint venture is registered with the CIDB;
2. The lead partner has a contractor grading designation in the (above indicated) class of construction work;
3. The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with Table 9 of the Construction Industry Development Regulations.

Will any portion of the contract be sub-contracted? YES / NO (delete which is not applicable)

If YES, indicate:

- (i) what percentage of the contract will be subcontracted?

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.....
 (ii) The name of the sub-contractor?

.....
 (iii) The B-BBEE status level of the sub-contractor?

.....
 (iv) Whether the sub-contractor is an EME? YES / NO (Attach B-BBEE certificate / an original sworn affidavit as proof)

TD 6.8 LETTER OF GOOD STANDING

The aim of the COID Act is to provide for compensation in the case of disablement caused by occupational injuries and diseases, sustained or contracted by employees in the course of their employment, or death resulting from such injuries and diseases; and to provide for matters connected therewith.

Workers who are injured on duty or obtain an occupational disease can claim compensation for temporary or permanent disablement. If workers die as a result of an injury on duty, their dependants will also be entitled to claim compensation. Employers that registered their employees are protected against civil claims in this regard. The COIDA basically prevents employees covered by the act from suing their employers for damages in terms of common law.

Please note that the following employers are exempted and do not have to pay assessment fees:

- National and provincial state departments;
- Certain local authorities
- Employers insured by a company other than the Compensation Fund like Mutual Associations. There are currently two approved mutual associations:
 - Federated Employers Mutual Assurance (FEMA), for the building industry; and
 - Rand Mutual Assurance Company (RMA), for the mining industry.

According to prescription, anyone who employs one or more part- or full-time workers **must register** with the Compensation Fund and pay annual assessment fees. The Compensation Fund is a trust fund that is controlled by the Compensation Commissioner and employer contributes to the Compensation Fund. The Commissioner is appointed to administer the Fund and approve claims lodge by employees or their dependants. This means that

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the Fund will compensate the employee or their dependants and not the employer.

Where a service provider does not have any personnel in employment at time of tender, a letter from the Department of Labour must still be submitted indicating this status. A period of 14 days will be allowed after tender award for registration.

The copy of the document must be appended to **Annexure I**.

TD 6.9

CONSTRUCTION MANAGER COMPETENCY

Every principal contractor must appoint one full time-competent person as the construction manager in terms of Construction regulations 2014 Clause 8.

OHSA Construction regulations: Clause 8 (1) Management and supervision of construction work

A principal contractor must in writing appoint one full-time competent person as the **construction manager** with the duty of managing all the construction work on a single site, including the duty of ensuring occupational health and safety compliance, and in the absence of the construction manager an alternate must be appointed by the principal contractor.

"competent person" means a person who—

- a) has in respect of the work or task to be performed the required knowledge, training and experience and, where applicable, qualifications, specific to that work or task: Provided that where appropriate qualifications and training are registered in terms of the provisions of the National Qualification Framework Act, 2000 (Act No.67 of 2000), those qualifications and that training must be regarded as the required qualifications and training;(Training and registration only applicable from August 2015) and
- b) is familiar with the Act and with the applicable regulations made under the Act;

"construction manager" means a competent person responsible for the management of the physical construction processes and the coordination, administration and management of resources on a construction site;

(The level of competency needed with reference to specific person CV is a tertiary education qualification in civil Employer's Agenting and exposure not only to civil Employer's Agenting construction projects, but also all aspects of health and safety regarding construction works)

The copy of the document must be appended to **Annexure J**.

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TD 7 WITHDRAWAL OF TENDER AND MISCONDUCT

Should a Contractor withdraw his tender during the period of its validity or fail to furnish the required bond of suretyship offered then he shall be liable for and pay to the Employer all expenses incurred in calling for fresh tenders, as well as the difference between his tender and any less favourable tender accepted.

Cancellation of bid will be placed in the same media as initially advertised.

Bids containing false information will be cancelled immediately without payment and/or claims for damages incurred by such cancellation.

The Contractor will be liable for the recovery of all costs and damages suffered as a result of the misconduct or cancellation of the bid or less favorable conditions affecting the award of the bid.

Exclusion of the Contractor and its directors, who acted fraudulently, from any business with an organ of state for a period not exceeding 10 years after the *alteram partem* rule has been applied.

TD 8 ADDITIONAL INFORMATION

Only information given in writing to the Contractor by the Employer's Agent during the tender period will be regarded as binding on the Contract. Verbal information, given during the site inspection or at any other time prior to the award of the Contract, will not be regarded as binding on the Contract.

TD 9 FINANCIAL INVESTIGATION

Contractors must be prepared to furnish certain documentation at own cost within 7 (seven) days of being called upon to do so.

According to the evaluation of the bid it can be insisted that an interview be conducted with the Contractor to test his knowledge on the subject or to give further information on its product, service or pricing.

The Employer retains the right to conduct a "credit reference check" as part of the appointment conditions.

TD 10 DEFINITIONS

In this Agreement, unless the context clearly indicates a contrary intention, the following words will have the following meanings and cognate expressions will have corresponding meanings:

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The “Contractor” means the company or person appointed under this bid for the purposes of delivering the service for this Project to the Client as described in the Scope of Works. For the purposes of this document, the terms “Contractor” and “Service Provider” are assumed to have the same meaning.

“Project Manager” means an official appointed and in charge of coordinating the project at **Casidra** SOC Ltd. in accordance with the provisions of these terms and conditions.

“Service level” means the stipulated criteria applicable to the indicated project, including any set of criteria relating to the performance of the Contractor.

“Project Team” or “Steering Committee” means the people appointed by the Client and identified to guide the project and approve achievements.

“Client” or “the Client” means **Casidra** SOC Ltd.

“Employee” means a person employed by the Provincial Government or a provincial public entity, whether permanently or temporarily.

“Family member” means a spouse (partner in marriage, customary union according to indigenous law or a relationship in which the parties live together in a manner resembling a marital partnership), child, parent, brother or sister, whether such relationship results from birth, marriage or adoption.

“Construction Work” means any work as defined in the Construction regulations 2014 under the definitions

- Construction work including working at heights
- Excavation work
- Structure including demolition
- Temporary works

Unless the context clearly indicates a contrary intention, any word denoting any gender includes the other gender, the singular includes the plural and vice versa, natural person includes artificial persons and vice versa and insolvency includes provision or final sequestration, liquidation or judicial management.

TD 11

CENTRAL SUPPLIER DATABASE

National Treasury indicated during 2015 the development and future use of the Central Supplier Database (CSD) as a way of simplifying the process of doing business with government.

The CSD will be the source of all supplier information for all organs of state and will reduce the exchange of compliance documents in paper form, eliminate multiple registrations with different organs of state and ultimately reduce the cost for both business and government by enabling electronic registration and verification process.

The CSD will interface with SARS to verify tax clearance certificates and the Companies and Intellectual Property Commission (CIPC) for business registration and business ownership information. The CSD will furthermore verify supplier information

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with the register for tender defaulters and database of restricted suppliers. (Please see Fact Sheet and CSD pamphlets.)

From 1 September 2015 prospective suppliers should self-register on the CSD website www.csd.gov.za. Apart from registering and capturing supplier information on the CSD, suppliers currently on any database of organs of state need to maintain their records through the existing supplier systems for the period 1 September 2015 to 31 March 2016. This period will be referred to as the Interim Period. During the Interim Period suppliers that register on the CSD must provide their CSD supplier number and unique security code that will be communicated to them as well as any other relevant documentation (not yet electronically verified by the CSD) to the organs of state they want to do business with. **Casidra** urges all their suppliers to please comply with the request.

For more information, please contact National Treasury ocpo.treasury.gov.za (http://ocpo.treasury.gov.za/Suppliers_Area/Pages/Central-Supplier-Database.aspx) or Central Supplier Database for Government (<https://secure.csd.gov.za/>).

TD 12

DECLARATION OF INTEREST

In view of possible allegations of favouritism, it is required that the bidder declare his/her position in relation to the Client.

Is any family member, trustee, director, shareholder or member of the bidder in any way connected to the State?

and/or

Does the bidder have any relationship with a person that may be involved with the evaluation or adjudication of this bid? In view of possible allegations of favouritism, it is required that the bidder declare his/her position in relation to the Client.

If so, furnish particulars:

.....

The bid may be disregarded if that bidder or its directors have abused the Client's supply chain management system, committed fraud or any other improper conduct in relation to such system.

- (i) Is the bidder or any of its directors;
- listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector? (www.treasury.gov.za, follow the link at the bottom of the home page);
 - Listed on the register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act;

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- (ii) Was the bidder or any of its directors;
- convicted by a court of law (including a court outside of the RSA) for fraud or corruption during the past five years?
 - contract with any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?

If so, furnish particulars:

.....

.....

.....

.....

TD 13 ADDITIONAL CONDITIONS

TD 13.1 THE EMPLOYER RESERVES THE RIGHT TO:

- Change the point system of the policy without prior notification;
- Negotiate prices after awarding of the bid;
- Disclose the results of the points awarded;
- Evaluate and award points according to the documentation supplied and evaluate functionality at its own discretion;
- Award the bid to the qualifying contractor with the highest number of points scored, unless on the basis of fairness, safety, public interest and international suppliers;
- Excluding the above, in case of the highest score not being acceptable, for procedural fairness and transparency, the Contractor will be requested to make a presentation (at least in writing) on their offer to provide further detail.
- To award the bid to a company which does not necessarily have the lowest price.

TD 13.2 OTHER NOTES AND CONDITIONS

- Final points scored will be rounded off to the nearest 2 decimal places
- In the event of equal scores where functionality is part of the bid, the contractor with the highest functionality score will be successful. Where there are no functionality requirements, the offer with the highest B-BBEE score will be successful. If the scores are still equal, the drawing of lots will determine the outcome.

The bid may be cancelled if:

- circumstances change and there is no longer a requirement for this service;
- funds are no longer available or if there are insufficient funds available in the budget for the work;

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- no acceptable bids are received;
- all the bid offers received are higher than R50 million;
- there is a material irregularity in the tender process;
- false information was supplied by the bidder.

TD 13.3 **EXPENSES IN PREPARATION OF THE BID**

The Client will not be responsible for, nor pay any expenses for losses which the contractor may incur in preparation of this bid.

TD 13.4 **ATTENDANCE REGISTER**

The successful contractor will be required to keep an attendance register, which meets certain criteria, of all employees who work at the project and submit this information on a bi-weekly basis to the Client who, in return, will submit a report to the funder / donor.

TD 13.5 **SITE INSTRUCTION BOOK**

The successful contractor will be required to keep a site instruction book with numbered pages on site where all the events and instructions for the works are documented. This book must be completed in triplicate where one copy is given to the Contractor, one copy is given to the Client and the other stays in the book on site.

TD 13.6 **DETAILED COMPANY PROFILE**

Tenderers are to submit a detailed company profile including the core competencies of personnel and health and safety competency of the construction manager.

The copy of the document must be appended to **Annexure L**.

TD 14 **MARKET RELATED PRICING**

If the bidder, whose tender has been compliant, and that received the highest overall points, do not offer a market related price, the offer may be negotiated with that bidder to be market related.

Are you willing to negotiate your offer? YES / NO (delete which is not applicable)

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If a market related price cannot be negotiated, the offer for negotiation will be extended to the second highest point scoring bidder, then the third highest scoring bidder, where after, failing to reach any agreement, the tender will be cancelled.

TD 15

SUPPLY CHAIN PERFORMANCE MEASUREMENT

In order for **Casidra** to measure its supply chain efficiency and effectiveness, please assist us by answering the following questions:

What was the source that made you became aware of this bid being available?
(Mark with X)

Personal Email invite to bid:	
Via a friend or business partner:	
National Government E-Tender website:	
Local Newspapers:	
Casidra own website:	
CIDB website	

Other: Specify.....

- Was the time allowed to date of closure sufficient for you to compile an offer?

No – too short	Yes - Sufficient	No - Too long
----------------	------------------	---------------

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SECTION 3: TENDER ANNEXURES

PAGE NO.

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ANNEXURE A

AUTHORITY TO SIGN DOCUMENTS

I/We*, the undersigned, am/are* duly authorised to sign the form of tender on behalf of
 by virtue of the
 Articles of Association/Resolution of the Board of Directors*, of which a certified copy is attached, or

SIGNATURE :

(Name in Print) :

DATE :

WITNESSES:

1.

2.

* Delete whichever is inapplicable or complete as indicated if none is applicable.

AND

DECLARATION BY THE COMPANY SUBMITTING THE BID:

I, _____

- A. As the authorised representative of the company / CC / business hereby declare that, to the best of my knowledge the abovementioned information is true and correct and that I am duly authorized as a signatory of this tender. On behalf of my business, I accept the terms and conditions as set out in this document. I will supply documentary proof of any information supplied herein on request and to the satisfaction of **Casidra**.

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- B. If the Contractor does not have the knowledge and skills to exercise sufficient control in terms of the Occupational Health and Safety Act requirements, the Client will appoint an Occupational Health and Safety Officer on behalf and at the cost of the Contractor.
- C. If at any stage the control measures are found to be inadequate, Clause 13.1 has been exercised and the Contractor are still in breach of contract, the Client will appoint an Occupational Health and Safety Officer on behalf and at the cost of the Contractor.
- D. The contractor hereby confirms that he had sufficiently made provision for Occupational Health and Safety requirements in his bid.
- E. The contractor hereby confirms that he has sufficient resources to carry out the work safely as required by the Occupational Health and Safety Act.
- F. The contractor hereby confirms that he has the necessary personnel that is qualified and has suitable experience, competencies, skills and training to do the work safely and meet the requirements of the Occupational Health and Safety Act and regulations.
- G. For Construction works – The contractor hereby confirms that all personnel have a medical certificate of fitness specific to construction and to operate construction vehicles and mobile plant.

 Signature

 Date

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Signature for Casidra		Signature for Contractor

ANNEXURE B

CERTIFICATE OF VISIT TO THE SITE BY THE CONTRACTOR

This is to certify that I,

Representative of (Contractor)

visited the site on

accompanied by (Representative of the Employer's Agent).

Having previously studied the tender/contract documents, I thoroughly examined the site. I have made myself familiar with all local conditions likely to influence the work and the cost thereof.

I further **CERTIFY** that I am satisfied with the description of the work and the explanations given by the above-named Employer's Agent, or his representative, and that I perfectly understand the work to be done in the execution of this Contract.

CONTRACTOR**For office use only**

This is to verify, by the Representative of the Employer's Agent, that the above contractor did attend the compulsory site meeting.

.....
EMPLOYER'S AGENT Name

.....
EMPLOYER'S AGENT Signature

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ANNEXURE C

ALTERATIONS BY CONTRACTOR

If the contractor wishes to make any changes to any of the bid conditions, general conditions of contract, schedule of quantities, drawings, specifications, or if he wishes to qualify his bid in any way, he must clearly set out his proposals hereunder or alternatively state them in a covering letter attached to this bid and referred to hereunder. If he makes **ANY** changes and do not list them below, his bid will be disqualified.

If no changes or amendments are made, please indicate it by writing **NONE** in the space below and signed by the Contractor.

NB. Any changes made by the contractor outside the scope of works, may influence the functionality of the end product and may result in the bid being disqualified.

Item	Suggested Change

If more space is required, please add a separate page.

.....
SIGNED ON BEHALF OF CONTRACTOR

DATE

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Signature for Casidra		Signature for Contractor

ANNEXURE D

SCHEDULE OF PLANT TO BE EMPLOYED ON THIS CONTRACT

The Contractor's attention is directed to the several sections of the specification. The Contractor shall enumerate hereunder:

- a) Which plant will be available immediately;
- b) Which plant will be available from outstanding orders for plant and
- c) Which additional plant will be acquired if the contract is awarded to the Contractor.

A. PLANT IMMEDIATELY AVAILABLE FOR WORKS:

.....	
.....	
.....	
.....	

**B. PLANT ON ORDER, AVAILABLE FOR THE WORKS AFTER DELIVERY:
(Information of agreements and delivery dates must be provided)**

.....	
.....	
.....	

**C. PLANT TO BE ACQUIRED IF TENDER IS SUCCESSFUL:
(Information of delivery arrangements must be provided)**

.....	
.....	
.....	

If more space is required, please add a separate page.

.....
SIGNED ON BEHALF OF CONTRACTOR

.....
DATE

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Signature for Casidra		Signature for Contractor

ANNEXURE E

SCHEDULE OF STAFF

The contractor must insert in the spaces below, details of staff he intends employing on the contract.

Specify the name, qualifications and experience of the Site Agent.

Specify the name, qualifications and experience of the Contracts Manager.

SIGNED ON BEHALF OF CONTRACTOR

DATE

If more space is required, please add a separate page.

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ANNEXURE F

SCHEDULE OF PROPOSED SUBCONTRACTORS

Contractors shall set out in the schedule hereunder the details of any subcontractors other than plant hire firms, they propose to use on the works.

NAME OF PROPOSED SUBCONTRACTOR	ADDRESS OF REGISTERED OFFICE	NATURE OF WORK TO BE UNDERTAKEN	APPROXIMATE VALUE OF WORK

If more space is required, please add a separate page.

.....
SIGNED ON BEHALF OF CONTRACTOR

.....
DATE

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ANNEXURE G

PROOF OF CIDB REGISTRATION

The contractor must attach to this page proof of CIDB registration of **6 CE** or higher or proof of application for registration.

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Signature for Casidra		Signature for Contractor	

ANNEXURE H

SCHEDULE: PROOF OF RELEVANT EXPERIENCE

The following is a summary of works that have been completed successfully by bidder. In order to be compliant for this bid, the following detail **MUST** be included:

- The description of work must be relevant to the nature of this contract. For e.g., do not list fencing projects completed when the scope of works is reinforced concrete erosion protection weir construction.
- Provide detailed list of completed projects with contact numbers regarding reinforced concrete structures projects completed as well as monetary value
- Elaborate on project description. For e.g., do not state "Structure" – Be specific as to the works executed in the contract to support relevant experience.

Employer (include contact information)	Description	Value of Work	Completion date

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ANNEXURE I

SCHEDULE: REFERENCES –

Provide a minimum of least three (3) different reference letters from three (3) different companies

If more space is required, please add a separate page.

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Signature for Casidra		Signature for Contractor	

ANNEXURE J

LETTER OF GOOD STANDING - COIDA

The contractor must attach to this page a copy of the current letter of good standing.

SIGNED ON BEHALF OF CONTRACTOR

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Signature for Casidra		Signature for Contractor	

ANNEXURE K

CONSTRUCTION MANAGER COMPETENCY

The contractor must attach to this page proof of competency of a construction manager in terms of Construction Regulations 2014 Clause 8.

Please attached a complete CV for evaluation purposes relevant to this occupation of Civil Employer's Agenting projects. Please also supply this person's experience regarding construction health and safety regulations.

If more space is required, please add a separate page.

SIGNED ON BEHALF OF CONTRACTOR

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Signature for Casidra		Signature for Contractor	

ANNEXURE L

METHOD STATEMENT FOR THE CONSTRUCTION OF TEMPORARY WATER MANAGEMENT STRUCTURES & OVERALL METHOD STATEMENT FOR CONSTRUCTION & MANAGEMENT OF WORKS AS A WHOLE.

The contractor must attach to this page their method statement of how they are going to approach the diversion of the river when building structures, as well as the method statement of how they are going to manage this construction project, including how they will manage the various processes. This method statement must address project plan for the overall works and be site specific. The award of this tender will mean monitoring works to this method statement as being the approved method of construction for the project. See below a table indicating how the Method Statement will be assessed.

BIDDERS MUST HAVE ADRESSED ALL THE BELOW POINTS IN THEIR METHOD STATEMENT. FAILURE TO INCLUDE ALL ITEMS WILL DISQUALIFY TENDER

PROJECT PLAN – METHOD OF PROPOSED CONSTRUCTION
WATER MANAGEMENT – DEALING WITH FLOODING AND WORKING IN LIVE WATERCOURSE
DETAILED PROJECT PROGRAM

If more space is required, please add a separate page.

SIGNED ON BEHALF OF CONTRACTOR

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ANNEXURE M

DETAILED COMPANY PROFILE

The contractor must attach to this page a **DETAILED & COMPREHENSIVE** company profile including core competencies of personnel. The company profile must summarize information about your organisation.

In order for a company profile to be compliant for this bid, the following detail **MUST** be included in the company profile.

- Company core business activities – Describe your products and services and markets in which you operate
- Company background – State number of years in business, location, history of company, etc
- Company resources – Number of employees, core competencies of personnel, structure of company - organogram

If more space is required, please add a separate page.

SIGNED ON BEHALF OF CONTRACTOR

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ANNEXURE N

EXPERIENCE / SPECIAL KNOWLEDGE OF WORKING IN LARGE-SCALE SUBMERGED CONDITIONS.

Please provide proof of your company's experience regarding working in submerged conditions. Examples and how to negotiate working in these conditions must be provided. As stated previously in the document a knowledge of working in flowing river conditions will be an advantage.

Photographic proof relevant to projects listed under experience will be advantageous.

If more space is required, please add a separate page.

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ANNEXURE O

JOINT VENTURE AGREEMENT / CONTRACT.

If applicable please provide proof of signed JV contract and detailed agreement between parties.

If more space is required, please add a separate page.

SIGNED ON BEHALF OF CONTRACTOR

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SECTION 3: CONTRACT DATA

PART 1: DATA PROVIDED BY THE EMPLOYER

GENERAL CONDITIONS OF CONTRACT

The General Conditions of Contract for Construction Works 3rd Edition (2015), published by the South African Institution of Civil Engineering (SAICE) shall apply to and form the General Conditions of Contract for this contract. Copies of these conditions of contract are obtainable from:

The South African Institution of Civil Engineering (SAICE)
Private Bag X200
Halfway House 1685
Tel: (011) 805 5947
Fax: (011) 805 5971
E-mail: civilinfo@saice.org.za.

The General Conditions of Contract 2015 make several references to the Contract Specific Data, which together with these conditions collectively describe the risks, liabilities and obligations of the contracting parties and the procedures for the administration of the Contract. The Contract Specific Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the general conditions of contract.

The General Conditions of Contract shall be read in conjunction with the variations, amendments and additions set out in the Contract Specific Data that follows. Each item of Contract Specific Data is cross-referenced to the clause in the General Conditions of Contract to which it mainly applies.

CONTRACT SPECIFIC DATA

The following contract specific data are applicable to this Contract:

Clause 1.1.1.13

The defects liability period is **12 months**.

Clause 1.1.1.14

The time for achieving Practical Completion is **8 months**.

Clause 1.1.1.15:

The Employer is **CASIDRA SOC LIMITED**

Clause 1.1.1.16:

The **Employer's Agent**, referred to in the documents, is **CASIDRA SOC LIMITED**. Representation of the Employer's Agent will be in the form of a **Project Manager**.

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The person appointed by the Client to act as the Project Manager.

Clause 1.1.1.26:

The Pricing Strategy is a Re-measurement Contract.

Clause 1.1.1.28:

Replace with the following:

“Scope of Work” means the document(s) containing the Standard Specifications, the Project/Particular Specifications and the Drawings, that specifies and describes the Works, which are to be provided, and any other requirements and constraints relating to the manner in which the work is to be performed.

Add the following Clauses after Clause 1.1.1.34:

1.1.1.35 **“Drawings”** means all drawings, calculations and technical information forming part of the Tender Documents (other than information contained in the Specifications) and any modifications thereof or additions thereto from time to time approved in writing by the Employer’s Agent or delivered to the Contractor by the Employer’s Agent.

Clause 1.2.1.2:

The address of the Employer is: **22 Louws Avenue**

 Southern Paarl

 Western Cape

 7646

The address of the Employer’s Agent is: **22 Louws Avenue**

 Southern Paarl

 Western Cape

 7646

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Clause 3.2:

Add the following after 3.2.4:

- 3.2.5 The Employer's Agent shall establish the basic reference pegs and benchmarks on the Site and give to the Contractor the particulars thereof in sufficient time to enable the Contractor to meet his approved program.

Clause 4.2:

Add the following after 4.2.2

- 4.2.3.1 After compliance by the Employer's Agent with the provisions of Clause 3.2.5, the Contractor shall be responsible for the true and proper setting out of the Works and for the correctness of the position, levels, dimensions and alignment of all parts of the Works and for the provision of all necessary instruments, appliances and labour in connection therewith.

- 4.2.3.2 If at any time during the progress of the Works, any error shall appear or arise in the position, levels dimensions or alignment of any part of the Works, the Contractor, on being required to do so by the Employer's Agent, shall at his own expense rectify such error to the satisfaction of the Employer's Agent, but if such error is based on incorrect data supplied in writing by the Employer's Agent or if there is any delay in providing the particulars required in terms of Sub-Clause 11.3.1, the Contractor shall, in respect of that delay and the Cost of such rectification, be entitled to make a claim in accordance with Clause 48.

"The Contractor shall carefully protect and preserve all benchmarks, sight-rails, pegs and other things used in setting out the Works. The checking of any setting-out or of any line or level by the Employer's Agent shall not relieve the Contractor of his responsibility for the correctness thereof."

Clause 4.3:

Add the following Clauses after Clause 4.3.2:

- 4.3.3 The Employer and the Contractor shall enter into an agreement to complete the work required for the construction of the works in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act (No. 85 of 1993) and the Construction Regulations promulgated thereunder. A Health and Safety Agent has been appointed for this project. Contact details will be supplied to the Contractor. The contractor to make provision in his price for the management of all Health and Safety management of works. A health & safety specification and baseline risk assessment will be provided at the compulsory site meeting.
- 4.3.4 The works was subject to environmental authorization and a ROD from DEA&DP was issued as well as a Water User License agreement. An Environmental Control Officer has been appointed to supervise construction for compliance. Contact details will be supplied to the contractor. An environmental management plan will be issued at the compulsory site meeting.

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4.3.5 All relevant Road Safety regulations apply as the transport of material will be on public roads. This requires *inter alia* red flag bearers at the intersections.

Clause 5.3.1:

The Commencement Date will be the date that the site is handed over to the Contractor by the Employer's Agent/Client.

The Contractor will not be permitted to commence executing the Works before the Form of Guarantee and required insurances and other specified items have been submitted and approved. The documents required before commencement with Works execution are:

- Health and Safety Plan (Refer to Clause 4.3)
- Initial program (Refer to Clause 5.6)
- Insurances (Refer to Clause 8.6)

Clause 5.3.2:

The time to submit the documentation required before commencement with Works execution is **Fourteen (14)** days.

Clause 5.4:

Add the following clause after Clause 5.4.3:

5.4.4 The Contractor shall bear all costs and charges for special and temporary rights of way required by him in connection with access to the Site. The Contractor shall also provide at his own cost any additional facilities outside the Site required by him for the purposes of the Works.

Clause 5.5.1:

The Works shall be completed within **(6) Months** (and agreed to by the Employer), inclusive of special non-working days and inclusive of the period referred to in Clause 5.3.2.

Clause 5.6.1:

The Contractor shall deliver his programme of work within **(14)** days from the Commencement Date.

Clause 5.8.1:

The non-working days are **(Sundays)**

The special non-working days are:

- (1) All gazetted public holidays falling outside the year end break and
- (2) The year end break for the Civil Employer's Agenting construction sector commencing in December 2026 and ending in January 2027 as gazetted.

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Clause 5.12.2.2:

No extension of time will be granted in respect of any delays attributed to normal climatic conditions. Normal Climatic Conditions shall be deemed to include normal rainfall and associated wet conditions and materials, strong winds and extremes of temperature.

Floods are to be expected working under these conditions. Abnormal flooding of the river could lead to extension of time; however, it must be declared a flood by the local municipality.

Clause 5.12.3:

If an extension of time is granted, the contractor shall be paid such additional time related General items.

Clause 5.12.4:

If feasible, the Employer's Agent may request the contractor to accelerate the rate of progress to achieve practical completion without extension of time and determine the cost for payment of such acceleration in accordance with clause 6.4.

Clause 5.13.1:

The penalty for failing to complete the Works is **R3000.00** per calendar day.

Clause 5.14.4:

Add the following at the end of this sub-clause:

"However, a Certificate of Completion will not be issued before the Contractor hands over a consolidated Health and Safety file that shall include all the specified information, as well as all "As Built" information as required by the Employer's Agent."

Clause 5.14.5:

Delete the contents of Clause 5.14.5.1 from this Contract and replace with the following:

Not used.

Clause 5.16.3:

The contractor's liability period for latent defects after the issuing of the Final Approved Certificate shall be for a period of one **(1)** year.

Clause 6.2:

No Guarantee is required by the Employer.

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Clause 6.5.1.2.3:

The percentage allowances to cover the relevant charges is **10 (ten)%**.

Clause 6.7.1:

Replace the contents of sub-clause 6.7.1 with the following:

“The quantities in the Bill of Quantities are nominal quantities which are included solely for the purpose of Tender evaluation. These quantities are not guaranteed, nor have they any other significance in terms of the Contract other than a means of assessing the Tender.

Only the actual quantities of work which are executed by the Contractor in fulfilment of his obligations under the Contract will be measured or approved by the Employer’s Agent for payment purposes.

An alteration of the quantities included in the Bill of quantities shall not affect the validity of the Contract. The tendered rates and prices shall remain valid and applicable irrespective of any differences between the quantities in the Bill of Quantities and the quantities finally certified for payment.”

Clause 6.8.2:

Add the following to Clause 6.8.2:

The Contract Price shall **not** be subject to any contract price adjustment and the rates and prices tendered in the bill of quantities shall be final and binding throughout the period of the Contract.

Clause 6.10.1:

Add the following to Clause 6.10.1.5:

The percentage advance on materials not yet built into the Permanent Works is **80 (eighty%)** based on certified invoices provided and subject to proof of insurance for said materials and adequate security for paid material.

Tenderer to note that material on site will only be paid equivalent to the maximum amount of insurance cover held by the contractor.

Clause 6.10.2:

Replace the second sentence (commencing “The valuation of such materials”) with the following:

“The valuation of such materials shall be based on the purchase price and delivery cost reflected by the relevant invoices or receipts, exclusive of Value Added Tax and discounts to the Contractor and inclusive of any other duties payable on such material. (Value Added Tax will be added only to the net

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amount certified by the Employer's Agent as payable to the Contractor in respect of each Payment Certificate, as provided for in sub-clause 49.1;"

Add the following:

"Payment to the Contractor for any materials on site shall only be authorised after proof of ownership by the Contractor has been lodged with the Employer's Agent in the form of receipted invoices or other acceptable documents."

Clause 6.10.3:

The percentage retention on the amounts due to the Contractor is **10 (ten %)** with no upper limit.

Clause 7.2.1:

Add the following to this sub-clause:

"The onus rests with the Contractor to produce work which conforms in quality and accuracy of detail to all the requirements of the specifications and drawings, and the Contractor shall, at his own expense, institute a quality-control system and provide experienced personnel, together with all transport, instruments and equipment, to ensure adequate supervision and positive control of the works at all times."

Clause 8.4.1.1:

Delete and replace with the following:

"hereby indemnifies the Employer, the Employer's Agent and all consultants against any liability in respect of damage to or physical loss of the property of any person, including any employee of the Contractor, or injury to or death of any person, including any employee of the Contractor and"

Clause 8.6.1.1.2:

The value of the materials supplied by the Employer to be included in the insurance sum is to be equal to the maximum amount intended to be claimed under MOS for any single claim.

Clause 8.6.1.1.3:

The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is R0.00 -Nil.

Clause 8.6.1.3:

The limit of indemnity for liability insurance is **R5 000 000.00** for any single claim – the number of claims to be unlimited during the construction and defects liability periods.

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Clause 8.6.1.5:

Additional insurances:

- a) Insurance of Construction Plant and Equipment (including tools, offices and other temporary structures and contents) and other things (except those intended for incorporation into the Works) brought onto the site for a sum sufficient to provide for their replacement.
- (b) Insurance in terms of the provisions of the Compensation for Occupational Injuries and Diseases Act No. 130 of 1993.
- (c) Motor Vehicle Liability Insurance comprising (as a minimum) "Balance of Third Party" Risks including Passenger Liability Indemnity.
- (d) Where the contract involves manufacturing and/or fabrication of the works or part thereof at premises other than the Site, the Contractor shall satisfy the Employer that all materials and equipment for incorporation in the works are adequately insured during manufacture and/or fabrication. In the event of the Employer having an insurable interest in such works during manufacture or fabrication then such interest shall be noted by endorsement to the Contractor's Policies of Insurance.

Clause 8.6.6:

The contractor shall within **(14) fourteen** days from the Commencement Date (Appointment date) produce to the Employer's Agent the relevant policy or policies of insurance.

Clause 9.2.1:

Add the following Clauses after Clause 9.2.1.8:

- 9.2.1.3.9 The Contractor fails to provide the required Guarantee and insurances within the prescribed time.
- 9.2.1.3.10 The Contractor committed a corrupt or fraudulent act during the execution of the contract.

Clause 10.1:

Add the following after 10.1.5.2:

10.1.6:

"Early warning – A Party shall notify the other as soon as he is aware of any circumstance which may delay or disrupt the Works, or which may give rise to a claim for additional payment. The Contractor shall take all reasonable steps to minimize these effects.

The Contractor's entitlement to extension of the Time for Completion or additional payment shall be limited to the time and payment which would have been due if he had given prompt notice and had taken all reasonable steps."

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Clause 10.4.1:

ADD the following to Clause 10.4.1:

- 10.4.1.1 If the dispute is not capable of being settled amicably between the parties, such dispute shall be elevated to Casidra Senior Management/ Executive or their duly authorised representatives for mediation purposes, within 7 days of such a dispute having arisen.
- 10.4.1.2 Should the dispute, despite referral for mediation as above, remain unresolved for a period of 30 (thirty) days after being so referred, the parties may, by mutual consent, follow an arbitration procedure as agreed between them, without detracting from either party's right to institute action or motion proceedings in the Magistrate Court or other court of competent jurisdiction in respect of any dispute that may arise out of this agreement.

Clause 10.7.1:

Dispute resolution shall be by arbitration.

ADDITIONAL CONDITIONS OF CONTRACT

The additional Conditions of Contract are:

Clause 11: Contractor to provide everything necessary

The Contractor is to provide all labour, material, workmanship, machinery, and everything which is or may be necessary in and for the execution and entire completion of the Contract in accordance with the Conditions of Contract, Drawings and Scope of Work.

Clause 12: Details to be confidential

The Contractor shall treat the details of the Works comprised in this Contract as private and confidential (save in so far as may be necessary for the purposes hereof) and shall not publish or disclose the same or any particulars thereof in any trade or technical paper elsewhere without the prior written consent of the Employer's Agent.

Clause 13: Exclusions**Environmental legislation:**

The works was subject to environmental authorization and a ROD from DEA&DP was issued. An Environmental Control Officer has been appointed by the Employer to supervise construction for compliance. Contact details will be supplied to the contractor.

Occupational Health and Safety Act:

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A Health and Safety representative has been appointed for this project. Contact details will be supplied to the contractor.

Clause 14: Assignment, cession and delegation

Neither of the Parties may transfer any rights, obligations, share or interest acquired in terms of this Agreement, in whole or in part, to any other party or person without the prior written consent of the other, which consent must not be unreasonably withheld or delayed.

Clause 15: Relaxation

No indulgence, leniency or extension of a right, which either of the Parties may have in terms of this Agreement, and which either party ("grantor") may grant or show to the other party, will in any way prejudice the grantor, or preclude the grantor from exercising any of the rights that it has derived from this Agreement, or be construed as a waiver by the grantor of that right.

Clause 16: Waiver

No waiver on the part of either party to this Agreement of any rights arising from a breach of any provision of this Agreement will constitute a waiver of rights in respect of any subsequent breach of the same or any other provision.

Clause 17: Severability

In the event that any of the terms of this Agreement are found to be invalid, unlawful or unenforceable, those terms will be severable from the remaining terms, which will continue to be valid and enforceable.

Clause 18: Nature of the relationship

- 18.1 This Agreement does not create an employment relationship, partnership, joint venture or agency between the parties and neither party shall be liable for the debts of the other party, howsoever occurred.
- 18.2 The employees of the Contractor will at no time be considered to be employees of the Client and nor will the Client be jointly and severally liable in the event of any contraventions by the Contractor or any of its obligations towards its employees.
- 18.3 The Contractor will inform all the employees appointed to fulfil the terms of this Agreement that the Client is not liable to them for any obligations in terms of any contract of employment with the Contractor, in terms of the *Labour Relations Act, 1997* (Act No. 66 of 1995) or the *Basic Conditions of Employment Act, 1997* (Act No. 75 of 1997).

Clause 19: Labour log sheets

One of Casidra's agreed mandate with the Western Cape Department of Agriculture is to report on jobs created for the individual projects. To assist Casidra with accurate reporting it is a condition of this

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bid document that the successful bidder will have to submit labour log sheets with all required information properly completed.

Documentation **MUST be submitted with every payment claim** from the Contractor on a monthly basis. Failure to submit this information will result in default by the contractor and may affect payment certificates being issued.

Documentation will consist of excel spreadsheet combined total person days, weekly log timesheet & relevant copies of South African ID Documents of workers claimed for under person days. This documentation will be emailed to the successful bidder. Weekly log sheet MUST be signed by workers on the site. The person days claimed for workers must have South African citizenship.

The Protection of Personal Information Act 4 of 2013 (also known as POPIA), regulates and controls the processing, usage and storage of personal information. In order to be compliant with POPIA, Casidra commits not to share your information with any third party outside Provincial & National Departments of Agriculture, project management agencies, co-workers and associates / partners as per our business approval and evaluation, and reporting processes.

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PART 2: DATA PROVIDED BY THE CONTRACTOR**Clause 1.1.1.9:**

The name of the Contractor is

Clause 1.2.1.2:

The address of the Contractor is

Physical : Postal :
Address Address

.....
.....
.....
.....

Telephone : Fax:

E-mail :

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Signature for Casidra		Signature for Contractor	

SECTION 4: CONTRACT FORMS

In accordance with the requirements of the conditions of contract the enclosed forms shall be used as and when necessary. The following forms are enclosed:

- (i) Form of Offer and Acceptance
- (ii) Deed of Suretyship
- (iii) Supplier Registration Form
- (iv) Bank Entity Form

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Form of Offer and Acceptance (Agreement)

Offer

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract in respect of the following works:

.....

The Contractor, identified in the Offer signature block below, has examined the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, and by submitting this Offer has accepted the Conditions of Tender.

By the representative of the Contractor, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance, the Contractor offers to perform all of the obligations and liabilities of the Contractor under the Contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the Conditions of Contract identified in the Contract Data.

Undertaking by the company submitting the bid:

I,

as the authorised representative of the company / CC / business hereby declare that, to the best of my knowledge the furnished information is true and correct and that I am duly authorized as a signatory of this tender. On behalf of my business, I accept the terms and conditions as set out in this document. I will supply documentary proof of any information supplied herein on request and to the satisfaction of the Employer.

.....

Signature Date

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX IS

.....

..... Rand (in words); R..... (in figures),

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This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document to the Contractor before the end of the period of validity stated in the Tender Data, whereupon the Contractor becomes the party named as the Contractor in the Conditions of Contract identified in the Contract Data.

For the contractor:

.....
Signature

.....
Name

.....
Capacity

Name and address of organisation:

.....

.....

.....

Signature and name of witness:

.....
Signature

.....
Name

Date

Acceptance

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the Contractor's Offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the Conditions of Contract identified in the Contract Data. Acceptance of the Contractor's Offer shall form an agreement between the Employer and the Contractor upon the terms and conditions contained in this Agreement and in the Contract that is the subject of this Agreement.

The terms of the contract are contained in

Part 1 Agreements and Contract Data, (which includes this agreement)

Part 2 Pricing Data

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Part 3 Scope of Works

Part 4 Site Information

and drawings and documents or parts thereof, which may be incorporated by reference into the above

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender Schedules as well as any changes to the terms of the Offer agreed by the Contractor and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Agreement. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be duly signed by the authorised representative(s) of both parties.

The Contractor shall within **two** weeks after receiving a completed copy of this Agreement, including the Schedule of Deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data at, or just after, the date this Agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the Contractor receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the Contractor (now Contractor) within five days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties,

For the Employer:
Signature

.....
Name

.....
Capacity

Name and address of organisation:

.....
.....
.....
.....

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Signature and name of witness:

.....
Signature

.....
Name

Date

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Signature for Casidra		Signature for Contractor	

Schedule of Deviations

Notes:

1. The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender,
2. A Contractor's covering letter shall not be included in the final contract document. Should any matter in such, letter, which constitutes a deviation as aforesaid become the subject of agreements reached during the process of, offer and acceptance, the outcome of such agreement shall be recorded here,
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here,
4. Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract,

1 **Subject:** _____

Details: _____

2 **Subject:** _____

Details: _____

By the duly authorised representatives signing this Schedule of Deviations, the Employer and the Contractor agree to and accept the foregoing Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules as well as any confirmation, clarification or change to the terms of the offer agree by the Contractor and the Employer during this process of offer and acceptance.

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It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the Contractor of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

For the Contractor:

Signature(s)

Name(s)

Capacity

(Name and address of organisation)

Name &
signature of
witness

_____ Date _____

For the Employer

Signature(s)

Name(s)

Capacity

(Name and address of organisation)

Name &
signature of
witness

_____ Date _____

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Signature for Casidra		Signature for Contractor

DEED OF SURETYSHIP

(NOT APPLICABLE)

CONTRACT NO: 127/2013

WHEREAS,

(hereinafter referred to as "the Employer") entered into, on the day of

..... contract with

(hereinafter called "the Contractor") for the

at

AND WHEREAS it is provided by such contract that the Contractor shall provide the Employer with security by way of suretyship for the due and faithful fulfillment of such contract by the Contractor;

AND WHEREAS has/have
at the request of the Contractor, agreed to give such security;

NOW THEREFORE we, do hereby
guarantee and bind ourselves jointly and severally as co-principal debtors to the
Employer, without limitation of liability or exclusion for the due and faithful
performance of the Contractor of the terms and conditions of the said contract, subject to the
following conditions:

1. The Employer shall, without reference and/or notice to us, have complete liberty of action to act in any manner authorised and/or contemplated by the terms of the said contract, and to agree to any modifications, variations, alterations, directions or extensions of the completion date of the works under the said contract, and that its rights under this guarantee shall in no way be prejudiced nor our liability hereunder be affected by reason of any steps which the Employer may take under such contract, or of any modification, variation, alterations of the due completion date which the Employer may make, give, concede or agree to under the said contract.
2. The Employer shall be entitled, without reference to us, to release any securities held by it, and to give time to or compound or make any other arrangement with the Contractor
3. This guarantee shall remain in full force and effect until the issue of the certificate of completion in terms of the contract, unless we are advised in writing by the Employer before the issue of the said certificate of his intention to institute claims, and the particulars thereof, in which event this guarantee shall remain in full force and effect until all such claims have been paid or liquidated.
4. Our total liability hereunder shall not exceed the sum of

..... (R)

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Signature for Casidra		Signature for Contractor

5. We hereby choose domicilium citandi et executandi for all purposes arising hereof at

IN WITNESS WHEREOF this guarantee has been executed by us at
on this day of20.....

AS WITNESSES:

1. Signature :
(Name in Print)

2. Dual authorized to sign on behalf of
(Name in Print)
Address

NOT APPLICABLE

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Casidra, as a Schedule 3D development and implementation agent for the Western Cape Provincial Government underwrites, and complies with the Provincial and National developmental initiatives and administers funds on behalf of donors. Within this context, and because of the specific requirements of the donors for the application of the funds, the awarding of tenders / quotations is dependent on the special evaluation criteria as set out in the policies of **Casidra**. The evaluation criteria of this Preferential Procurement Policy is based on the “**Preferential Procurement Policy Framework (Act 5 of 2000)**” and related Regulations (updated for Notice No. R502 of 8 June 2011).

Awarding of the bid is dependent on a preferential points system, and every presentation is measured against the specific evaluation criteria as shown. **The completion and signature of the document is thus a pre-requisite to qualify as a service provider.**

GENERAL DETAILS: (Please print clearly)	
Registered Company Name	
Trading Name / Individual Full Name	
Company Reg Number / ID Number	
VAT Number	
CSD Supplier Number *	
CSD Unique Registration Ref Number *	
Postal Address	
Postal Code	
Physical Address	
Postal Code	
CONTACT DETAILS	
Representative Name	

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Telephone Number			
Cell Phone Number			
Fax Number			
Email Address			
Website Address			
OTHER DETAILS -			
Main Business Type (Please tick)		Consultants & Professionals	
Tools & Equipment (Hardware)		Clothing & Textiles	
Office Supplies & Furniture		Accommodation & Transport	
Training & Mentorship		Printing & Advertising	
Event Services (Catering, Venue Hire)		Irrigation & Water Services	
Earthmoving & Heavy Machinery		Other Production Inputs	
Seed, Fertilizer, Chemicals		Livestock & Animal Production	
Construction Services		Repairs & Maintenance	
Vehicles & Implements		Municipal & Bulk Services	
Other (Please Specify)			
* Note that you HAVE to register on the Central Supplier Database (CSD) (www.csd.gov.za) before we can use you as a service provider.			

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BANK ENTITY FORM

1. DETAILS OF COMPANY / INDIVIDUAL: <i>(Please print clearly)</i>	
Full Name	
ID Number	
Company Reg Number	
VAT Number	
Postal Address	
Postal Code	
Physical Address	
Postal Code	
2. BANKING DETAILS	
Name of Bank	
Name of Branch	
Branch Code	
Account Number	
Type of Account	
3. CONFIRMATION BY BANK	
We hereby confirm that the bank details under paragraph 2 of this form belongs to the individual / company under paragraph 1.	
Date Stamp of Bank	BANK OFFICIAL
	Print Name:
	Signature:

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SECTION 5: SCHEDULE OF QUANTITIES

PREAMBLE TO THE SCHEDULE OF QUANTITIES

1. The general conditions of contract, the special conditions of contract (if any), the specifications (including the project specification) and the drawings are to be read in conjunction with the schedule of quantities.
2.
 - a) The schedule comprises items covering the Contractor's profit and costs of general liabilities and of the construction of temporary and permanent works.
 - b) The Contractor is at liberty to insert a rate of his own choosing for each item in the schedule and his attention is drawn to the fact that the Contractor has the right, under various circumstances, to payment for additional works carried out and that the Employer's Agent is obliged to base his assessment of the rates to be paid for such additional work on the rates inserted in the schedule by the Contractor.
 - c) Clause 6.1.1 of each standardised specification and the measurement and payment clause of each particular specification, read together with the relevant clauses of the project specification, set out what ancillary or associated activities are included in the rates for the operations specified.
3. Descriptions in the schedule of quantities are abbreviated and the schedule has been drawn up generally in accordance with the latest issue of CIVIL ENGINEERING QUANTITIES(1). Should any requirement of the measurement and payment clause of the applicable standardised specification(2), or the project specification(2), or the particular specification(s) (2) conflict with the terms of the schedule or, when relevant, CIVIL ENGINEERING QUANTITIES(1), the requirement of the standardised, project or particular specification, as applicable, shall prevail.
4. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance has been made for waste.
5. The prices and rates to be inserted in the schedule of quantities are to be the full inclusive prices to the Employer for the work described under the several items, **value added tax excluded**. Such prices shall cover all costs and expenses that may be required in and for the construction of the work described, and shall cover the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the tender is based.
6. A price or rate is to be entered against each item in the schedule of quantities, whether the quantities are stated or not. An item against which no price is entered will be considered to be covered by the other prices or rates in the schedule.
7. The Contractor must price each item in the schedule of quantities in **BLACK INK**.

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8. **All prices and rates shall exclude value added tax (VAT).** The Contractor shall calculate value added tax and enter it at the end of the summary of the schedule of quantities.
9. The standard system of measurement of Civil Employer's Agenting Quantities of South Africa and South West Africa, published by the South African Institution of Civil Employer's Agents.
10. See definition in subclause 2.1 of Part 1 of SABS 0120: Format and Contents.

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DAYWORK LIST

1.0 GENERAL

Contractors must complete this list which shall be used for the assessment of value of the work which the Employer's Agent instructed in writing that must be done on a day work bases, all in agreement with clause 6.5.1.1 of the General Conditions of Contract 2010 2nd Edition and coupled Special Contract Specifications. All the rates are fixed and shall be binding till and with the issuing of the final certificate, except for statutory increases that will be announced from time to time.

2.0 LABOUR COSTS

Rates for labour as listed below shall include all the allowances as specified in the General Conditions of Contract 2010 2nd Edition and Special Contract Specifications. The extra allowance applicable on labour costs listed below, is as given in the tender appendix and must not be taken into account in this list.

Overtime costs attached to this contract shall be paid in the same relation as what the employees really are paid.

DESCRIPTION	UNIT	RATE
Unskilled labour	Hour	
Semi skilled labour	Hour	
Pipe layer	Hour	
Ganger	Hour	
Foreman/Section leader	Hour	
Brick layer	Hour	
Plumber	Hour	

3.0 EQUIPMENT COSTS

Full comprehensive hourly rates, which also include the cost of the operators, must be listed below. Rates must also include all the costs of consumable items, maintenance, depreciation, tools and all other coincidences that shall be necessary to operate the equipment for the purpose it is designed for. The rates must also include all the overhead costs, profits, site supervision, insurance, holidays with payment, travelling costs (or travelling allowances) and residence allowances of operators and any other allowances that is applicable. No further percentage allowances shall be applicable on equipment. The Contractor must list under each heading the fabrication and specification of the equipment available.

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DESCRIPTION	UNIT	RATE
1. Excavators 22t: _____ 27t: _____ 32t: _____	Hour Hour Hour	
2. Graders _____ _____ _____	Hour Hour Hour	
3. Front-end loaders 55 kW: _____ 140 kW: _____ 500 kW: _____ Other: _____	Hour Hour Hour Hour	
4. Rollers 2t: _____ 12t: _____ 19t: _____ Other: _____	Hour Hour Hour Hour	
5. Compressor _____ _____ _____ _____	Hour Hour Hour Hour	
6. Concrete mixer (litres specified) _____ _____ _____ _____	Hour Hour Hour Hour	
7. Bull dozers D6 _____ _____ D8 _____ _____	Hour Hour Hour Hour	

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8. Dumper trucks 	Hour Hour Hour Hour	
9. TLB 	Hour Hour Hour Hour	
10. LDV 	Hour Hour Hour Hour	
11. Other (specify) 	Hour Hour Hour Hour	

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ALLEMANSFONTEIN – FLOOD REPAIR & PREVENTION MEASURES
SCHEDULE OF QUANTITIES

SECTION A:	PRELIMINARY AND GENERAL	<u>R</u>
SECTION B:	EARTHWORKS	<u>R</u>
SECTION C:	CONCRETE	<u>R</u>
SECTION D:	LANDSCAPING AND REHABILITATION	<u>R</u>
	TOTAL OF PRICED ITEMS	<u>R</u>

SUB TOTAL OF TENDER

R _____

Allow 10% contingencies to be expended as
directed by the Engineer and to be deducted
In whole or in part if not required

R

NET TOTAL OF TENDER

R

Add 15% for VAT

R

GROSS TOTAL OF TENDER

R

Date:

Signed on behalf of Tenderer

ALLEMANSFONTEIN – FLOOD REPAIR & PREVENTION MEASURES						
SCHEDULE OF QUANTITIES						
Item	Payment schedule	Description	Unit	Quantity	Rate	Amount
	SANS 1200 A	SECTION A: PRELIMINARIES				
A1	8.3.1	Fixed charge items				
A1.1	8.3.2	Contractual requirements	Sum	1		
		Facilities for contractor				
A.1.2		Offices and storage sheds	Sum	1		
A.1.3		Ablutions & latrine facilities	Sum	1		
A.1.4		Tools & equipment	Sum	1		
A.1.5		Medical assessment of employees	Sum	1		
		Other time-related obligations (specify)	Sum	1		
A.1.7		Remove tools & equipment from site	Sum	1		
A.2		Time related items				
A.2.1	8.4.1	Contractual requirements (including insurances)	Month	6		
	8.4.2.2	Facilities for contractor (site offices)	Month	6		
A.2.2		Ablution and latrine facilities	Month	6		
A.2.3		Tools and equipment	Month	6		
A.2.4		Plant	Month	6		
A.2.5		Health & Safety requirements	Month	6		
A.2.6		Supervision	Month	6		
A.2.7		Company and head office overhead costs	Month	6		
A.2.8		Designated Environmental Officer	Month	6		
A.2.9		Environmental aspects & impacts	Month	6		
A.2.10		Provision of environmental emergency measures		Provisional		R 100 000.00
A.2.11		Contractors markup to allow for handling costs and profit in respect of item A.2.11	%	10%		R 10 000.00
A.2.12		Other time-related obligations (specify)	Month	6		
						
						
A.10	PS A 8.4.6	Standing time cost				
A2.10.1		Plant	Sum			Rate only
A2.10.2		Labour	Sum			Rate only
		TOTAL SECTION A:				
		Carried forward to Summary				

ALLEMANSFONTEIN – FLOOD REPAIR & PREVENTION MEASURES						
SCHEDULE OF QUANTITIES						
Item	Payment schedule	Description	Unit	Quantity	Rate	Amount
	SABS 1200D & DA	SECTION B: EARTH WORKS				
B1		Site clearance				
		Cut and down remove alien biomass completely from site from areas where shown on plan				
B1.1		Light infestation (less than 50%)	Hectares	0.1		
B1.2		Clear and strip site for structure of all vegetation and unsuitable material to spoil/ stockpile directly behind structure	m ²	300		
B1.3		Site Clearing: Cleaning and grubbing for removal of vegetation, shrubs, trees, bushes, stumps, weeds, grass including roots, debris, unusable materials, removal of 150mm thick top soil using manual or mechanical method and disposal of the same by burning or any other means including dumping to approved areas within the project site.	m ²	600		
B2	SABS 1200D	Excavations				
		Excavation in all materials to correct dimensions and depths and stacking the excavated earth & disposable material where ever indicated in site, excluding back filling but including filling depressions and loose pockets wherever necessary including watering, consolidating etc., complete. Rate to include disposing of excess earth within the site and spreading in layers to required levels, shoring, bailing out water, etc. complete.				
		Excavations for depth:				
B2.1		- 0,0 m to 2,0 m	m ³	300		
B2.2		- Greater than 2,0 m	m ³	320		
		Excavation in clay soil				
		Excavation in all materials to correct dimensions and depths and stockpile to 6 stockpile arrears situated 500 metres apart for:				
		Weir for depth: Clay soil				
B2.3		- 0,0 m to 2,0 m	m ³	12		
B2.4		- Greater than 2,0 m	m ³	12		
		Excavation in soft rock				
		Excavation in all materials to correct dimensions and depths and stockpile to 6 stockpile arrears situated 500 metres apart for:				
		Weir for depth: soft rock				
B2.5		- 0,0 m to 2,0 m	m ³	50		
B2.6		- Greater than 2,0 m	m ³	50		

B3		Surface preparations for bedding of gabions				
B3.1	1200DK	Cavities filled with approved excavated material or rock	m ³	10		
B4		Fill Materials				
		Back filling from stockpiles in plinths, for backfill behind concrete to top of concrete or else where as directed including breaking clods, watering and consolidating in 150mm thick layers, compacting each layer with vibratory compactor and at inaccessible places with wooden/steel rammers to achieve 90 to 95% MOD ASHTO density at optimum moisture content, all leads and lifts, bailing/ pumping out water to keep site dry while backfilling cost shall include conveyance of all materials, labour, ,hire and fuel charges for tools and plants and other incidental charges etc.complete as per detailed specification.				
B4.1		With excavated earth available at site	m ³	1000		
B5		Cement stabilised fill				
B5.1		Soilcrete backfill behind straining wall, shoulder wall and cut-off wall . The soilcrete will be a mix of approved granular sand and cement, moistened, laid and compacted in 200 mm thick layers. The cement content must be 5% by mass (ie 3 pockets of cement per cubic meter)	m ³	2640		
B6		Setting out of works				
B6.1		Allow for setting out of all construction works	Amount	1		
B7		Over – Excavated/surplus material				
		Hauling & placing over excavated/surplus material to areas as directed on site				
B8.1		Hauling & placing over excavated material to areas on site for shaping as directed by engineer from the selected stockpile areas	m ³	500		
		TOTAL SECTION B:				
		Carried forward to Summary				

ALLEMANSFONTEIN – FLOOD REPAIR & PREVENTION MEASURES						
SCHEDULE OF QUANTITIES						
Item	Payment schedule	Description	Unit	Quantity	Rate	Amount
		SECTION C: CONCRETE				
		<u>Blinding layer for layrinth weir</u>				
	SABS1200GA	Blinding layer between rock and foundation of reinforced concrete structure (up to 200 mm thick)	m ²	505		
		<u>Concrete mix 15/13 for:</u>				
		Mass filling beneath shoulder wall foundations	m ³	50		
C1		<u>Concrete mix 30/13 mPa for:</u>				
C1.1	SABS1200G	Concrete spillway inclusive of aprons, cut-off, shoulder walls and end wall	m ³	403.9		
C1.2	SABS1200G	Concrete apron 150 mm thick	m ³	45.6		
C2		<u>Curing of concrete</u>				
		Concrete shall be cured by applying Sika Antisol-E (or similar approved by the engineer) according to the manufacturers specification				
C2.1		Supply and application of curing compound	m ²	1764		
C3		<u>Concrete test cubes</u>				
		Allow for the testing of concrete with an accredited laboratory. Allow for 3 no. of 150 x 150mm test cubes per test.				
C3.1		Allow for 3 sets of testing per cast as per R.E. instructions	no	40		
C4		<u>Formwork</u>				
C4.1		Providing, fabricating and erecting form work at all levels, heights and places wherever needed/ specified as per drawing including striking/ deshuttering with 19mm Plastic coated, marine resistant ply board, or standard steel panels, with adjustable steel props to full height without joints and with sufficient bracing. Cost to include sealing the joints with heavy duty brown self adhesive tape, applying mould releasing agents(Rebol from Fosroc or equivalent) aligning to line and levels including M.S. Ties, PVC Spacer, etc., (For walls)	m ²	1764		
C4.2		50 mm radius fillet along the spillway upstream edge	m	72		

C5		Reinforcing steel				
C5.1		Providing, Fabricating & Placing Reinforcement Steel of High Yield Strength Deformed (HYSD) bars of various diameters of grade Fe 500 conforming to IS codes & make ISPAT or SAIL or VIZAG or TATA including straightening, cutting, bending, hooking, lapping and/or welding wherever required as directed, placing in position, tying with 18G black annealed binding wire double fold, cost of binding wire and anchoring to the adjoining members wherever necessary, all laps and wastages etc. complete as per structural drawings. Rate also to include cost of all materials, cost of labour, cost of equipment and machinery, loading and unloading, transportation, all other incidental charges and work at all leads and lifts etc. complete.	tonne	41.759		
C5.2		Supply and installation of high tensile steel dowels (25mm) complete, grouted with 30MPa grout into 50 mm holes drilled into rock as per drawing SRS 2023/2/011	number	48		
		TOTAL SECTION C:				
		Carried forward to Summary				

Item	Payment schedule	Description	Unit	Quantity	Rate	Amount
		SECTION F: LANDSCAPING AND REHABILITATION				
F1		Shaping				
		Contractor to allow for the construction of stormwater drainage channel as instructed by RE				
F1.2		Dumper truck	hours	24		
F1.3		Excavator	hours	24		
F1.4		Digger Loader	hours	20		
F1.5		Walk behind roller	hours	20		
F2		Fencing				
F2.1		Fence off of eroded areas as per fencing specification and Sketch	m	1129		
F3		Topsoil				
F3.1		Spreading of topsoil: From stockpile areas of top soil, contractor to spread 50mm thick over sloped area.	m ²	100		
F3.2		Spreading of topsoil: From commercial sources: Stockpile areas of top soil, contractor to spread 50mm thick over sloped area.	m ²	300		
F4		Silt-net and brush packing				
F4.1		Supply and installation of silt net in 300 mm deep trench with timber stakes at 1m centres as per drawing	m	500		
F4.2		Packing of cut thornbush branches (sourced on farm) at silt nets to promote vegetative growth	m ²	5000		
F5		Repairworks on access road				
F5.1		Contractor to allow and price a lumpsum on the repairworks to the access road upon completion of the project	km	5	LUMPSUM	
		TOTAL SECTION D:				
		Carried forward to Summary				

TENDER:10/2026



CONSTRUCTION OF REINFORCED CONCRETE LABYRINTH EROSION CONTROL WEIR AT ALLEMANSFONTEIN, MURRAYSBURG DISTRICT

SECTION 6: PROJECT SPECIFICATIONS

SCOPE

This project specification is set out in two portions. Portion 1 covers a general description of the project, the facilities available and the requirements to be met. Portion 2 covers variations and additions to standardised or particular specifications that are applicable to the contract.

The numbering method in portion 2 of this project specification deviates as follows from the method suggested in the Code of Practice SABS 0120.

Each clause with the prefix PS shall refer to the congruent clause in the appropriate section of the standardised or particular specification. Such clause shall either substitute, or supplement, or amend the clause with the same number. Where there is no such congruent clause in the standardised or particular specification, the PS clause shall be a new clause in the project specification. Any clause that is referred to in the standardised specification will also include the appropriate project specification.

STATUS

Should any requirement or provision of the Project Specification, conflict with any requirement of the standard of any standard specification or any drawing, the requirements of the variations and additions to the Standardised and non-standardised Specifications of the Project Specification shall prevail.

PORTION 1: THE WORKS

PS 1 GENERAL DESCRIPTION OF CONTRACT

The scope of works entails the construction of a **reinforced concrete labyrinth weir** located at Allemansfontein Farm situated in Murraysburg.

The description of the project contained in the scope of work is merely an outline of the contract works and shall not limit the work to be carried out by the contractor under this contract.

The extent of the works is indicated on the design drawings and some of the major items are amplified in this section. Approximate detailed quantities for each type of work to be carried out are included in the bill of quantities. However, if during the course of construction conditions are found to differ from those anticipated, the engineer reserves the right to modify the scope of the work to suit the prevailing conditions and circumstances.

Variations introduced in this manner will be measured and paid for at the rates tendered for the appropriate items listed in the bill of quantities or in the absence of such rates, as extra work.

The quoted amount will be a measured bid and must include material, labour and machinery.

PS 2 DESCRIPTION OF THE SITE AND ACCESS

The site is located in Murraysburg and activity will be alongside and in the Allemansfontein erosion gully both sides. The site to be occupied will be clearly pointed out to the contractor at the site handover. The contractor will not be allowed to extend the operations beyond the boundaries of the site.

PS 3 NATURE OF GROUND AND SUBSOIL CONDITIONS ON SITE

The construction of groynes and weirs in an environmentally sensitive riparian zone is specialized work that requires competent human resources that are adequately skilled in working with heavy and dangerous machinery/materials in aquatic and undulating conditions. The safety of all staff is of paramount importance in the implementation of this project.

This project entails working within the gully and it is envisaged that the riverbed consists of deep gravelly layers containing sand and silt with cobbles and boulders, interspersed with occasional layers of peat.

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Excavations are required for the project with the potential of water ingress due to the permeability of the founding material and existence of a high water table. The side walls of the excavations are likely to slump and collapse due to the unstable nature of the saturated founding material.

It is envisaged that dewatering of the excavations will be required while constructing the lower layers of the gabion structures.

PS 4 DETAILS OF THE CONTRACT

PS 4.1 MAIN CONTRACT

Work included in this contract involves the following:

- Construction of a temporary channel and berm to temporarily accommodate river flows and protect the construction site.
- Clearing of the river banks of alien vegetation.
- Excavations for construction of riverbank protection structures (i.e., groynes, weir).
- Backfilling and compaction of excavations.
- Excavation and shaping to rehabilitate the river channel.
- Construction of reinforced concrete weir and diversion works
- Excavation and shaping to rehabilitate the river channel
- Trimming and finishing off river channel and fill slopes.

PS 4.2 OTHER CONTRACTORS

N/A

PS 4.3 EMPLOYMENT OF LOCAL LABOUR

It is the intention that the local community be involved in this project and that **75%** of the unskilled labour used must come from the **Murraysburg, Nelspoort and surroundings** area and all workers on contract must be SA Citizens.

The following guidelines should be considered when setting rates of pay for workers:

- The rate set should take into account wages paid for comparable unskilled work in the local area per sector, if necessary.
- The rate should be an appropriate wage to offer an incentive for work, to reward effort provided and to ensure a reasonable quality of work.

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- It should not be more than the average local rate to ensure people are not recruited away from other employment and jobs with longer-term prospects.
- Men, women, disabled persons and the aged must receive the same pay for work of equal value.
- Provision should be made in the tender for value for payment of UIF and COIDA statutory levies

PS 5 CONSTRUCTION PROGRAM AND METHODS

After obtaining the requirements of the Employer, a completion period is to be proposed at tender stage, for approval by the Employer. A construction programme is then to be drawn up after site handover for approval by the Employer's Agent.

Construction methods must be such a nature that no property or life is endangered. The Employer accepts no responsibility for work that is done outside the site boundaries without the Employer's Agent's approval. The Contractor himself is responsible for liaison and arrangements with the Local Authority in connection with the finalisation and approval of the construction program.

The compilation of the construction program and any amendments thereto during the course of construction shall be at the cost of the Contractor and shall not be measured elsewhere in this contract.

PS 5.1 EXISTING SERVICES

If the contractor encounters any existing services such as cables, pipes or sewers during the execution of the works, he must immediately notify the Employer's Agent, halting all work in the vicinity thereof, until instructions to proceed have been given by the Employer's Agent.

Electric wires, telephone wires, pipes, etc. will not be interfered with during the course of the contract but if it should be necessary to disconnect or cut any such wires or pipes, the Employer's Agent will be advised thereof and his instruction awaited.

PS 6 SITE FACILITIES AVAILABLE

PS 6.1 SOURCES OF WATER SUPPLY AND POWER SUPPLY

The Contractor may use water free of charge from the existing supply if available.

The Contractor may use the existing power at an agreed rate, if available.

PS 6.2 LOCATION OF CAMP AND DEPOT

The Contractor will be shown the site for his camp and depot at handover.

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PS 6.3 HOUSING FOR CONTRACTOR'S EMPLOYEES

No housing is available for the Contractor's employees, and the Contractor shall make his own arrangements for housing his employees or transporting them to and from the site. The Contractor is in all respects responsible for the housing and transporting of his employees, and for the arrangement thereof, and no extension of time due to any delays resulting from this, will be granted.

PS 7 SITE FACILITIES REQUIRED

Other facilities such as an office, telephone, name board, survey equipment, etc. required for the Employer's Agent, are described under the relevant sections.

PS 8 FEATURES REQUIRING SPECIAL ATTENTION

PS 8.1 SAFETY REGULATIONS

Both the "Factories, Machinery and Building Work Act (Act 22 of 1941) and the "Machinery and Occupational Safety Act (Act 6 of 1983)" must, wherever they appear in the SABS 1200 standardised specifications, be substituted by the "Occupational Health and Safety Act (Act 85 of 1993)". The Contractor should please note that the new Construction Regulations 2014 are applicable on this contract.

PS 8.2 SURVEY BEACONS

Survey pegs will be indicated to the Contractor. The Contractor shall be solely responsible for the protection of survey pegs. The Contractor's attention is specifically drawn to the requirements of SABS specification 1200 A: General, clause 5.1 survey, in this respect.

PS 8.3 "AS BUILT" DRAWINGS

As the work progresses, the Contractor shall keep full records of all amendments to and deviations from the drawings as issued to the Contractor at the start of the contract. The Contractor with his payment certificate, to the Employer's Agent, must submit this information monthly. The true positions, invert levels and ground levels of all services shall be indicated on the drawings, for which purpose the Contractor shall receive a separate complete set of drawings from the Employer's Agent, at no cost.

The completion certificate shall only be issued after the Employer's Agent has received a properly completed set of "**as-built**" drawings from the Contractor. No separate payment shall be made for this service, as all costs related thereto shall be deemed to be included in the related items.

PS 8.4 FINISHING AND TIDYING

Progressive and systematic finishing and tidying will form an essential part of this contract. Under no circumstances shall spoil, rubble, materials, equipment or unfinished operations

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be allowed to accumulate unnecessarily and in the event of this occurring the Employer's Agent shall have the right to withhold payment for as long as necessary in respect of the relevant works in the area(s) concerned.

PS 8.5 SECURITY

Tenderers are to be aware that this is a high risk area regarding theft and an allowance will have to be made by the contractor for security personnel regarding plant & site camp.

PS 9 ENVIRONMENTAL REQUIREMENTS

The contractor shall take particular note of the environmental requirements contained in the project specifications. Should the contractor fail to comply in all respects the engineer will have the authority to stop the works until he is satisfied that measures have been taken to comply with the environmental requirements.

Personnel and plant shall not enter property beyond the boundaries of the site irrespective of whether or not the boundary is fenced.

The employer will appoint an environmental consultant appointed to conduct regular audits and to report on his findings at the monthly site meeting.

PS 10 EXTENSION OF TIME RESULTING FROM ABNORMAL CLIMATIC CONDITIONS

The Contractor shall make allowance for the average rainfall and windy conditions that may exist during the contract period. All necessary steps shall be taken to proceed with the works despite inclement weather. The Contractor shall however record all rainy and windy periods which adversely affect the contract extension of time in terms of clause 5.12.2.2 of the general conditions of contract 2015 3rd Edition, arising from abnormal climatic conditions, shall be applied as follows:

Delays on working days only (based on a six-day working week) will be taken into account for the extension of time, but the Contractor shall make provision in his programme of work for an expected delay of "n" working days caused by normal inclement weather, for which he will not receive any extension of time. The value of "n" for this contract shall be based on the loss of **(29)** working days per annum due to inclement weather.

Extension of time during working days will be granted to the degree to which actual delays, as defined above, exceed the number of "n" working days as mentioned above.

When considering extension of time for abnormal climatic conditions, the effect of the loss of **(29)** working days per annum due to normal inclement weather shall be taken cumulatively over the whole contract period.

For portions of less than one year the appropriate number of days of normal inclement weather will be determined on a pro rata basis based on the following table:

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MONTH	NUMBER OF NORMAL INCLEMENT WEATHER DAYS EXPECTED
January	3
February	4
March	6
April	3
May	2
June	1
July	1
August	1
September	1
October	2
November	3
December	2
Total	29

Should the Contractor wish to submit a claim for extension of time for the completion of the works due to the works being delayed by reason of exceptionally inclement weather he shall do so in writing and with the following details:

1. The times work was stopped and recommenced.
2. A motivation for the reasons construction could not continue, with reference to the agreed construction programme activities.
3. A report on active resources on site at the time of the disruption, which shall be certified by the Employer's Agent's site representative or Clerk-of-Works.
4. The circumstances surrounding any instruction by a third party to stop work due to inclement weather (i.e. Industrial Council/Safety Officer, etc.).

The Contractor shall submit to the Employer's Agent claims for all time lost due to inclement weather within 1 working day of the claim day, duly certified by the Employer's Agent's representative or Clerk-of-Works, as the case may be. A record of inclement weather will be kept and recorded at site meetings on a regular basis. Only when all parts of the contract have been handed over will claims, if any, be considered for exceptionally inclement weather. The onus is on the Contractor to prove these claims.

The delays granted, in terms of this clause, shall not automatically result in an overall extension of time being granted for completion of the works unless the effect is clearly applicable to the critical path of the agreed construction programme.

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PS 11

APPLICABLE STANDARDISED SPECIFICATIONS

Although not bound in nor issued with this document, the following standardised specifications shall form part of the contract and, notwithstanding the provisions of sub clause 2.2 of SABS 1200 A, the editions specified below shall apply:

- SABS 1200 A - 1986 GENERAL
- SABS 1200 AB - 1986 ENGINEER'S OFFICE
- SABS 1200 C - 1980 SITE CLEARANCE (as amended 1982)
- SABS 1200 D - 1988 EARTHWORKS (as amended 1990)
- SABS 1200 DA - 1988 EARTHWORKS (Small works)
- SABS 1200 DK - 1996 GABIONS AND PITCHING
- SABS 1200 GA - 1982 CONCRETE (Small works)
- SABS 1200 G - 1982 CONCRETE (Structural)
- SANS 5861 Concrete tests
- SANS 2001-CC1_2007 Structural concrete construction
- SANS 10100 – Part 3 - Draft standard for concrete water retaining structures
- General specification for river rehabilitation works Rev. 1 April 2016

The following standards are bounded in Section 7 of the document

- General specification for river rehabilitation works Rev 1 April 2016

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PORTION 2: VARIATIONS AND ADDITIONS

Departures from and/or additions to specifications listed in portion 1 are set out on the following pages in accordance with the numbering system of the standardized or particular specification.

**PORTION 2: VARIATION AND ADDITIONS TO THE STANDARD SPECIFICATIONS LISTED IN
PORTION 1**

SABS 1200 A: GENERAL

A 3 MATERIALS

PS A 3.1 QUALITY

Substitute the second sentence of the first paragraph of A 3.1 with the following:

Materials shall bear the official mark of the appropriate standard.

Substitute the second paragraph with the following:

The Contractor is responsible for the cost of all testing to ascertain that the materials do comply with the specified minimum requirements of the relative materials and no additional payment will be made for such testing.

The Contractor shall inform the Employer's Agent of any control testing to be done at least 48 hours before such tests are required and must allow in his program for the time necessary for the tests and the processing of the results thereof.

A 5 CONSTRUCTION

A 5.1 SURVEY

PS A 5.1.1 Setting Out Of the Works

Substitute the first sentence in A 5.1.1 with the following:

Setting out of the works is the sole responsibility of the Contractor and shall be done from bench marks as indicated on the drawings. The Contractor shall, within two (2) weeks after the site has been handed over to him, ascertain himself of the correctness of all pegs and bench marks. Any discrepancy shall immediately be reported in writing to the Employer's Agent. Any costs or subsequent costs arising from discrepancies which had not been reported to the Engineer within the aforementioned period, shall be the sole responsibility of the Contractor.

A 8 MEASUREMENT AND PAYMENT

PS A 8.4.6 Standing Time Costs

- a) plant Unit : Sum per working day
- b) labour Unit : Sum per working day
- c) other resources (to be specified by Contractor) Unit : Sum per working day

The tendered sum for each item shall include full compensation for all standing time costs of the specified resource of whatever nature and approved by the Employer's Agent, which are not recoverable by way of the provision made in PS A 8.2.5 for the adjusted payment of time-related items.

For the purposes of calculating the total standing time cost, a working week shall be held to consist of five working days and a working day of 9 hours.

Payment for the partial standing of any of the scheduled resources for a day or part thereof, or the standing of a complete resource for a part day, will be made pro rata in proportion to an appropriate factor assessed by the Employer's Agent.

The amount by which the standing time costs is adjusted shall be subject to the contract price adjustment formula as defined in the conditions of contract.

The Contractor shall take note that this payment item shall only apply to delays, which **in the opinion of the Employer's Agent**, are incurred as a result of riot, commotion, politically motivated sabotage and acts of terrorism or disorder outside the Contractor's control. This item shall also apply to standing time incurred as a result of labour boycotts, except that only sub-items (a) and (c), as applicable, will be paid where the Contractor did not pay his labour for the time boycotted. Costs for delays incurred for all other circumstances shall be treated as provided for in the conditions of contract.

The provision of this clause shall in no way prejudice the right of either the Employer or the Contractor to determine the contract in terms of the provisions of clause 10.2 of the general conditions of contract.

The Contractor shall take note that no payment will be considered for additional cost or time lost for any daily removal of plant and equipment from the site, any additional costs incurred in protecting his plant and site establishment, or loss incurred in respect of damage to construction plant, equipment and materials supplied and the works.

In the event that GCC 46(1) becomes applicable, the time on which such penalties are calculated shall be reduced by the total standing time approved by the Employer's Agent.

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PS A 8.8.5 DAYWORKS

Dayworks will be paid according to the percentage allowance method. For calculating the total remuneration the general conditions of contract for the construction of civil engineering work, sixth edition (1990) shall apply, with the amendments as in the appropriate special conditions of contract which is bound into this document. A Dayworks schedule will be provided for filling in the necessary information.

A 8.8 TEMPORARY WORKS

PS A 8.7 Cost of Survey in Terms of The Land Survey Act

The sum shall cover the cost of all labour, plant and material required for the searching and compilation of a list, all in accordance with the requirements as set out in clause A 5.1.1

SABS 1200 AB: ENGINEER'S OFFICE

AB 5 CONSTRUCTION

PS AB 5.6 SURVEY EQUIPMENT

The Contractor shall provide the following tested and approved survey equipment on site for the duration of the contract and for the use of the Employer's Agent whenever needed:

- a) One tachometer capable of reading to minimum 20 seconds and maximum 6 seconds of arc, plus tripod;
- b) One automatic level plus tripod;
- c) Two tachometer staffs and one level staff, all graduated metrically; and
- d) One 5m and one 100m tape measure.

The above-mentioned equipment may by arrangement be shared between the Contractor and the Employer's Agent's representative.

The Contractor shall keep the equipment continuously insured against any loss, damage or breakage, and he shall indemnify the Employer's Agent and the Employer against any claims in this regard.

The Contractor shall maintain the equipment in good working order and keep it clean throughout the contract period.

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AB 8 MEASUREMENT AND PAYMENT

AB 8.2 PAYMENT

PS AB 8.2.2 Telephone, Survey Assistants and Survey Equipment

No payment shall be made for the telephone, survey assistants or survey equipment and all costs shall be deemed to be covered by the rates tendered for the Contractor's facilities

D 4 PLANT

PS D 5.1.4.1 Dust nuisance

Add the following to D 5.1.4.1:

The Contractor is responsible for dust control and is liable for all claims that may result from dust nuisance on all parts of the site and at all times from the date of handing over of the site to the completion date of the contract. No payment regarding the above-mentioned will be made and all costs shall be deemed to be covered by the tendered rates.

Should straw stabilisation be required, the Contractor shall programme his activities such that straw stabilisation is done immediately after the earthworks have been completed.

SABS 1200 DA: EARTHWORKS (SMALL WORKS)

PS DA 5.2.6.1 FREEHAUL

The free haul area is to be 5 km x 5 km

SABS 1200 G & GA: CONCRETE (SMALL WORKS) & (STRUCTURAL)

PS GA 2.3 SPECIFICATIONS

The successful bidder will have to submit a concrete mix design for this project through an accredited concrete laboratory. The laboratory must be a SANAS accredited concrete laboratory. The mix design must be done with the following site parameters:-

- A minimum 30 day strength of 30 Mpa
- Extremely aggressive conditions for concrete

Costs are for the bidders account.

PAYMENT

**CONSTRUCTION OF REINFORCED CONCRETE LABYRINTH EROSION CONTROL WEIR AT
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Payment for concrete will only be made after receiving 7 day test results back which achieves the minimum 7 day strength for concrete. Compressive strength of concrete at 7 days should be in the range of 70% of its characteristic compressive strength. Compressive strength of concrete at 28 days should not be less than 100% of its characteristic compressive strength

Concrete cubes are to be made and tested in accordance with SANS 5861

- **7 days tests will be taken & 28 day tests.** 14 day test results are not necessary.
- The contractor to provide a detailed drawing indicating where the tests were taken and positions of pour in relation to the tests to be numbered. This must be provided and updated upon submission of test results. Failure to do so will result in non-payment.
- Tests are to be done by an accredited lab, different to the lab/plant supplying ready mix concrete.

ADDITIONAL PROJECT SPECIFICATIONS

SABS CEMENT SPECIFICATIONS

All cement used during construction shall comply with SABS EN 197-1 for common cements and SABS EN 413-1 for masonry cement. Any reference to SABS 471 in the standard specifications shall be replaced with the new specification SABS EN 197-1: Cement compositions, specifications and conformity criteria: Part 1: Common cements.

Where the old SABS 471 product nomenclature has been used in the standard specifications, the contractor shall supply and use the relevant new product, in compliance with SABS EN 197-1.

SUB-BASE STABILISING AGENT

The stabilising agent shall be class CEMII A-S cement conforming to SANS EN 197-1, or as directed by the Engineer. If the contractor proposes to use an alternative Portland cement mixture, the additional costs incurred to achieve the required UCS Values as stipulated on the drawings (inclusive of all testing), will be at the contractors own expense.

MATERIALS

The contractor, when using materials that are required to comply with any standard specification, shall, if so ordered, furnish the engineer with certificates showing that the materials do so comply.

Where so specified, materials shall bear the official mark of the appropriate authority. Samples ordered or specified shall be delivered to the engineer's office on the site free of charge. Where proprietary products have been specified, similar products may be used subject to the prior written approval of the engineer.

Unless otherwise specified, all proprietary materials shall be used and placed in strict accordance with the relevant manufacturer's current published instructions. Unless anything to the contrary is specified, all manufactured articles or materials supplied by the contractor for the permanent works shall be unused.

Earth, stone, gravel, sand, and all other materials excavated or present on the site or in borrow areas provided by the employer shall not become the property of the contractor, but will be at his disposal only in so far as they are approved for use on the contract. Existing structures on the site shall remain the property of the employer and except as and to the extent required elsewhere in the contract, shall not be interfered with by the contractor in any way.

Existing structures on the site shall remain the property of the employer and except as and to the extent required elsewhere in the contract, shall not be interfered with by the contractor in any way.

No materials to be included in the works shall be damaged in any way and, should they be

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damaged on delivery or by the contractor during handling, transportation, storage, installation or testing they shall be replaced by the contractor at his own expense.

All places where materials are being manufactured or obtained for use in the works, and all the processes in their entirety connected therewith shall be open to inspection by the engineer (or other persons authorised by the engineer) at all reasonable times, and the engineer shall be at liberty to suspend any portion of work which is not being executed in conformity with these specifications.

The contractor shall satisfy himself that any quarry selected for use provides the necessary mined material in accordance with the specification.

(a) Ordering of materials

Immediately upon his bid being accepted, the contractor shall order materials which are in short supply or for which the delivery period may be long.

The quantities set out in the bill of quantities have been determined from calculations based on data available at the time and should therefore be considered to be only approximate quantities. The contractor shall therefore, before ordering materials of any kind, check with the engineer the quantities required. No liability or responsibility whatsoever shall attach to the employer for materials ordered by the contractor except if they have been ordered in accordance with written confirmation issued by the engineer.

CLEARING AND REMOVING ALIEN VEGETATION

The unit of measurement for clearing and removing alien vegetation is the hectare. The quantity shall be taken as the area in hectares (to the nearest 0.01 ha) designated by the engineer and cleared of alien vegetation.

The tendered rate shall include full compensation for all labour, plant, materials, equipment and incidentals required to remove alien vegetation and disposal thereof at a landfill licenced in terms of the applicable legislation. Material obtained from clearing and grubbing shall be disposed of at a landfill licensed in terms of the applicable legislation

The rate shall also provide for the cost related to treating the remaining stumps with an approved herbicide (including supply of herbicide).

All cutting and re-cutting of stumps and trees to be cut maximum 50mm above natural ground level land/or water line. All existing trees and shrubs as well as cut trees/branches/etc with a diameter of below 50mm must be cleared and removed from site.

All biomass alien brush with a diameter of less than 50mm must be cut down to ankle height with the correct application of herbicide supplied by contractor such as (Hatchet/Siesmic).

All material must be removed from riparian zone out of flood line and stacked into heaps by hand for disposal hereafter by the contractor.

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WIRE FENCING:

Provide new posts, standards, droppers with galvanised mild steel and barbed wire and form boundary fencing as shown on Detail drawing. All wooden posts (Straining, Corner and Gate posts) must bear the mark of the SABS standard, and be 120mm in diameter at the small end.

Wooden Fence posts must be not less than 100mm in diameter at the small end. The spacing between fence posts to be not more than 15 metres.

Wooden droppers must be treated and bearing the SABS mark and to be not less than 30mm in diameter. A minimum of four dropper are required between fence posts. Fence wires to be a combination of barbed and smooth high tension steel wires as per "Kalahari 1, fully galvanised". High tension steel wires to have a minimum diameter thickness of 2,5mm. Allow for 7 wires as shown on drawing. Anchor wire to be galvanised soft steel wire with a minimum diameter thickness of 3,15mm. Binding wire to be soft wire with a minimum diameter thickness of 1,6mm.

FORMWORK

Providing, fabricating and erecting form work for all RCC works at places wherever needed / specified as per drawing including striking / deshuttering with marine ply board with adjustable steel props to full height and with sufficient bracing etc. complete. Cost to include sealing the joints with heavy duty brown self-adhesive tape, applying mould releasing agents (Rebol from Fosroc or equivalent) aligning to line and levels including M S Ties, PVC spacer etc. Complete & as directed at all levels.

Formwork shall be designed for rigidity, durability, strength, water tightness, easy deshuttering etc. Formwork designed using new material (approved prior to making), shall be able to withstand its shape, line, dimensions, level within the allowable tolerances. Only steel jacks and steel spans shall be used. Bracing in both directions as specified by the structural engineer shall be provided.

Necessary arrangements for providing camber as required shall be made. Formwork shall have adequate openings for cleaning. Formwork for construction joints shall be submitted for approval. All slabs shall be progressively deshuttered and back propped as per instructions by structural engineer.

CEMENT STABILISED FILL SPECIFICATION

Backfilling shall, where directed by the Engineer, be stabilized with 5% cement (by weight). The aggregate shall consist of approved soil or gravel containing stones not bigger than 38 mm and with a plasticity index not exceeding 10.

The soil or gravel shall be mixed with 5% cement (in a concrete mixer or in-situ with a rotavator) and shall be compacted in layers of 100mm thick to 90% modified AASHTO density (note it is implied that the mixture will have to be moistened to achieve this compaction). Where the stabilized fill is bedded around the dam's outlet pipe, the mix with be carefully tamped into position by rodding.

GEOTEXTILE FABRIC – BIDDEM A4

Geotextile Fabric is to be Bidim A4 (or similar approved by the Engineer)

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The Contractor shall, at least 45 days before the installation of the geotextile, submit to the Engineer samples of the geotextile(s) he proposes to use so that the Engineer may test the geotextile and confirm the use thereof if he is satisfied that it meets the specified requirements.

No extra payment shall be made for providing the samples for testing.



CONSTRUCTION OF REINFORCED CONCRETE LABYRINTH EROSION CONTROL WEIR AT ALLEMANSFONTEIN, MURRAYSBURG DISTRICT

PROJECT SPECIFICATIONS

Please see data sheet below



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TECHNICAL DATA SHEET WITH NEW SANS STANDARDS

Product Name: **bidim®**
 Reference No: DS FLTR 0587-08/2014
 Description: "A" Range Nonwoven, Needle punched, Continuous Filament, Polyester Geotextile
 Manufactured in RSA in accordance to ISO 9001:2008, Registration No: LS1176

			A1	A2	A3	A4	A5	A6	A7	A8	A10	
Mechanical Properties												
Thickness under 2 kPa	Thickness	mm	1.2	1.4	1.6	1.8	2.6	3.1	4.4	5.2	6.4	SANS 9863-1:13 / ISO 9863-1:05
Tensile Strength (200mm wide strip)	Weaker Direction	Typical kN/m	7.8	9.0	11.5	14.0	19.5	26.0	40.0	50.0	56.0	*SANS 1525:13 / ISO 10319:08
		MARV kN/m	7.0	8.1	10.3	12.6	17.2	22.2	35.0	46.0	50.0	
	Elongation	%	50 – 70									
Static Puncture Strength	CBR	Typical kN	1.5	1.9	2.2	2.7	3.6	4.8	7.1	9.5	11.7	*SANS 12236:13 / ISO 12236:06
		MARV kN	1.3	1.7	2.0	2.5	3.4	4.3	6.5	9.0	11.0	
Puncture Resistance	Diameter of hole (max)	mm	30	27	25	19	16	13	8	6	3	SANS 13433:13 / ISO 13433:06
Trapezoidal Tear Strength	Weaker Direction	Typical N	240	320	375	440	600	800	1200	1600	2100	ASTM D4533
		MARV N	205	245	330	375	500	650	1050	1330	1950	
Grab Strength	Weaker Direction	Typical N	500	600	730	900	1250	1550	2500	3260	4700	ASTM D4632
		MARV N	450	525	700	850	1100	1410	2100	2815	3700	
	Elongation	%	50 - 80									
UV Stability	70% strength retained after 1000 hours											ASTM D4355
Hydraulic Properties												
Normal Throughflow	@ 50mm head	ℓ/s/m ²	200	150	125	100	80	70	45	30	20	SANS 11058:13 / ISO 11058:10
In-plane Throughflow	Flow Rate (per m width)	ℓ/hr	20	30	35	40	50	55	75	120	130	ISO 12958:10
Permeability	@ 50mm head	m/s x10 ⁻³	4.8	4.2	4.0	3.6	4.2	4.3	4.0	3.1	2.6	SANS 11058:13 / ISO 11058:10
Pore Size	O ₉₅ W	µm	200	170	155	138	132	130	114	< 75	< 75	SANS 12956:13 / ISO 12956:10
Roll Dimensions												
Width	Standard	m	1.32, 1.76, 2.65, 3.53 & 5.3					2.65 & 5.3				
Length	Standard	m	150	150	150	150	150	75	75	50	50	

The above values include both Typical and Minimum Average Roll Values (MARV) and are deduced through the specified test methods by an accredited laboratory.

* Ten specimens per test according to SANS 9862:13 / ISO 9862:05 "Sampling and Preparation of Specimens"

Kaytech reserves the right to make technical modifications to its products.

The information given in Kaytech's documentation is to the best of our knowledge true and correct. However, new research results and practical experience can make revisions necessary. No guarantee or liability can be drawn from the information mentioned herein. Furthermore, it is not Kaytech's intention to violate patents or licenses.

Issued: 18 August 2014



TENDER:10/2026

CONSTRUCTION OF REINFORCED CONCRETE LABYRINTH EROSION CONTROL WEIR AT ALLEMANSFONTEIN, MURRAYSBURG DISTRICT

BASELINE RISK ASSESSMENT REPORT

A baseline risk assessment focuses on the identification of risk that applies to the whole project. The purpose of conducting a baseline risk assessment is to establish a risk profile.

This is an initial risk assessment that focuses on a broad overview in order to determine the risk profile to be used in subsequent risk assessments. It is performed to obtain a benchmark of the types and size of potential hazards, which could have a significant impact on the whole project and all stakeholders.

The stakeholders need to identify the major and significant risks, then prioritise these risks and evaluate the effectiveness of current systems for risk control.

The risks for the above project which have been identified have been highlighted under the following categories:

1. Scope of work (what is being built?)

This project consists of the following elements:

The scope of works entails the construction of a **reinforced concrete labyrinth weir** located at Allemansfontein Farm situated in Murraysburg.

2. Location of site and elements specific to the location (municipal by-laws, weather factors, geographical factors)

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To be signed upon appointment of winning bidder to form the agreement between the parties			
Signature for Casidra		Signature for Contractor	

Location

Allemansfontein Farm situated the Murraysburg District of the Western Cape. It is north east of the R61 connecting the N1 to Murraysburg (**GPS Co-ordinates: 31° 45'24.07"S, 23°38'42.15"E**)

Weather

There is the possibility of the river flooding if weather conditions are abnormal and large amounts of rain is present and/or dams releasing large quantities of water into the river.

3. Geo- technical risks (conditions of the soil, raise any concerns that may hinder the project progress)

The selected site is situated on one side of the river in aquatic and undulating conditions, as well as working in an active running riverbed. The density and growth of alien biomass varies from dense to sparse, from large to small.

Certain soil conditions could be waterlogged and muddy underfoot causing access to and on site impossible. The consent and approval of the local municipality and the community representatives will need to be obtained when creating access roads to the site.

Steep river banks will increase the risk of equipment and people falling in the river.

4. Environmental risks (This is the actual or potential threat of adverse effects on living organisms and environment by effluents, emissions, wastes, resource depletion, etc. involved in the construction phase)

The environmental risks associated with this site are as follows:

The nature of the construction work will take place directly in the riparian zone both sides of the Hex River. Within this habitat there are indigenous plants/trees which have to be protected, as well fauna which is present in this riparian zone. A high volume of bird life is present.

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BASELINE RISK ASSESMENT

Due to the site being in an environmental area there is always the risk for soil, groundwater and surface water pollution and contamination when using mechanical plant, fuel and pesticides. It will not be allowed to dispose of any kind of waste by burying it on site.

Biomass not removed also poses a major threat, as this material just ends up in the river again and further exacerbate the current problem.

Movement of vehicles on farm access roads creates dust which in turn sits on farmers crops affecting their quality of produce.

Disturbance of ground and biomass increases the possibility of personell being attacked by snakes and bees.

5. Risk assessments based on scope of work (Is this a high-rise building in a built-up area? Is it working in a flood plain and/or river with eroded soil conditions?)

Groynes will be built into the sides of embankments right alongside river banks. Erosion, excavation slippage, floods, rain, loose & muddy conditions underfoot all pose risks while undertaking construction work.

Cutting logs at rivers edge also is evident and this restricted access poses risk to both the method of felling of tree and resources used in this operation.

Access to construction activities invariably means making access through landowner's farms through windbreaks, orchards, etc. This has to be managed so as to cause the least damage to infrastructure. Access to sites will mean using farmer's roads on their land. This will need to be coordinated as to where the impact is minimal on both farming operations and infrastructure.

Also, all the farms/resorts are working farms/resorts, so farm /resort workers and implementation is at risk regarding both transport and biomass removal.

6. Equipment Risks.

The equipment risks associated with this project is as follows:

This will be a mechanised job with large numbers of mechanised earth moving equipment in close proximity to people, infrastructure, and surrounding environment. This earth moving

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BASELINE RISK ASSESMENT

equipment has to gain access in limited space areas with treacherous ground conditions being stable and at times unstable.

7. Material Risks.

The following could pose risks associated with the project:

- Flammable materials such as diesel/petrol in a highly flammable environment
- Hazardous substances such as pesticides and herbicides will have to be used
- Cement potency for concrete works.

8. Ergonomic Risks (Ergonomic hazards refer to workplace conditions that pose the risk of injury to the musculoskeletal system of the worker).

The ergonomic risks associated with the above project are as follows:-

- Severe injury/death from falling trees
- Severe injury/death from mechanical plant
- Asphyxiation due to smoke inhalation if burning of biomass is done.
- Drowning due to falling in river.
- Humidity could be high working under canopy with high heat expected.
- Heat stroke due to high temperatures and extended periods of direct sunlight exposure.

9. Controls specific to client requirements (two-day induction, pink overalls, entrance to existing premises, etc.).

The list of client requirements applicable to this project is: -

- Working hours is 07h30 to 17h00 on weekdays and 07h30 to 15h00 on Saturdays

RISK OVERVIEW CHART FOR PROJECT:

LOCATION	High temperatures	Heat exhaustion of personnel	5
	Rain	Worsen conditions underfoot &	2

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BASELINE RISK ASSESMENT

		raise river level	
GEOGRAPHICAL	Soil conditions aquatic and undulating	Difficult conditions to operate heavy machinery in to remove biomass.	4
ENVIRONMENTAL	Dust pollution	Dust will affect neighboring farmers crops	3
	Indigenous plants	Risk of damaging indigenous vegetation	2
	Soil contamination	Risk of pollution to ground & river by contaminants	4
	Snakes	Risk of being bitten by snakes	5
	Bees	Risk of being stung by bees	5
SCOPE OF WORK	Access to site	Access routes through various farm owners and access to riparian zone also difficult	3
	Water over & in water	Dangerous working in flowing river for personnel & equipment	4
EQUIPMENT	Mechanized earthmoving equipment	Working in difficult terrain and in close proximity to personnel	5
MATERIAL	Flammable material and pesticides	Dangerous to work with and to store	3
ERGONOMIC	Falling trees	Injury or even loss of life can occur if safety measures are	5

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BASELINE RISK ASSESMENT

	Drowning	not in place during felling operations Injury or even loss of life can occur if safety measures are not in place while working near or in river.	5
	Asphyxiation	Injury or even loss of life can occur when unplanned fires are started. Damage to infrastructure is a high probability	4
CLIENT REQUIREMENTS	Working hours	Only certain times when construction activity can take place	2

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BASELINE RISK ASSESMENT

Please find below risk assessment template which can be used by the contractor to manage the above identified risks.

Risk assessment							
Title:							
Company name:			Date assessment was carried out:				
Assessment carried out by:			Date of next review:				
Risk assessment Activity or area	What are the hazards?	Who might be harmed and how?	What are you already doing?	What further action do you need to take?	Who needs to carry out the action?	When is the action needed by?	Done

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TENDER 10/2026

CONSTRUCTION OF REINFORCED CONCRETE LABYRINTH EROSION CONTROL WEIR AT ALLEMANSFONTEIN, MURRAYSBURG DISTRICT

In terms of the Construction Regulations 2014 Regulation 5, a baseline risk assessment for the intended works is required to be done by the Client for each specific construction site.

This risk assessment will inform the site-specific Occupational Health and Safety specifications that must be supplied to the designer, who will supply any design specifications to be added and then supplied to the prospective Contractor (Bidder) as part of the tender documents. This specification must be translated into actions and preventative risk management measures by the Contractor that will form part the Occupational Health and Safety Plan of the Contractor.

This specification forms an integral part of the contract, and the Contractor is required to use it at pre-tender phase to make sufficient provision for related costs for risk management and after award of tender for the purpose of drawing up its project-specific construction phase health and safety plan.

It is the responsibility of the Contractor in the bidding process to:

- ensure that he include adequate provision for the cost for health and safety measures in his bid and
- Provide proof and include in his cost the necessary competencies and resources to perform the work safely.

The risks for the above project which have been identified, evaluated and resulted in the following specifications that are highlighted under the following categories:

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OCCUPATIONAL HEALTH & SAFETY SPECIFICATION

This specification does not replace the requirement of the Contractor to comply with all relevant legislation and the regulations of the Occupational Health and Safety Act, but just highlight the specific identified and relevant risk factors that need special mention and attention by the Contractor in his bid.

1. General administrative requirements

DESIGNATION	NAME	CONTACT NO's	ADDRESS	RESPONSIBLE PERSON
Project Client				
Department of Labour				
Municipality				
Project Funder				

2. Scope of work (what is being built?)

The scope of works entails the construction of a **reinforced concrete labyrinth weir** located at Allemansfontein Farm situated in Murraysburg.

3. Location of site and elements specific to the location (municipal by-laws, weather factors, geographical factors)

What is the risk?	Heat and rain
Hazard Identification?	High temperatures together with high humidity.
Who will be injured & mechanism of injury?	All personnel working on site. Possible injury will vary from heat exhaustion and or broken ankles from muddy soil.
Preventative action recommended	
Description	Category: Reduction/transfer/ control/avoidance
- Monitor weather for worsening soil conditions on daily basis. When conditions underfoot do not assist with mechanical and/or personnel, call site off until conditions improve - Ensure for shade and sufficient water onsite for high temperatures. - Ensure temperature is monitored and call site off with WGT of 40 and	Risk reduction/control

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OCCUPATIONAL HEALTH & SAFETY SPECIFICATION

higher	
What is the risk?	Cold and rain
Hazard Identification?	Low temperatures together with high wind factor.
Who will be injured & mechanism of injury?	All personnel working on site. Possible injury will vary from pneumonia and or broken ankles from muddy soil.
Preventative action recommended	
Description	Category: Reduction/transfer/ control/avoidance
- Monitor weather for worsening soil conditions on daily basis. When conditions underfoot do not assist with mechanical and/or personnel, call site off until conditions improve - Ensure for enclosures and shelters onsite for lower temperatures. - Ensure temperature is monitored and call site off with WGT of 40 and higher	Risk reduction/ control

4. Geo- technical risks (conditions of the soil, raise any concerns that may hinder the project progress)

What is the risk?	Soil conditions
Hazard Identification?	Difficult terrain
Who will be injured & mechanism of injury?	Infrastructure damage, damage to earthmoving equipment and personnel injury will vary from dislocation, broken bones to death
Preventative action recommended	
Description	Category: Reduction/transfer/ control/avoidance
This is specialized work that requires competent human resources that are adequately skilled in working with heavy and dangerous machinery in aquatic and undulating conditions. Guidelines and practical advice to all work operations to ensure effective and Proper management of high-risk areas must be in place. The contractor is hereby directed to the Casidra website to gain access to Working for Water	Risk control

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OCCUPATIONAL HEALTH & SAFETY SPECIFICATION

Health & Safety Plan. This must be implemented as part of the contractors Health & Safety plan. The document name is:	
WfW Health & Safety Doc on website www.casidra.co.za	

5. Environmental risks (This is the actual or potential threat of adverse effects on living organisms and environment by effluents, emissions, wastes, resource depletion, etc involved in the construction phase)

What is the risk?	Dust pollution
Hazard Identification?	Dust affects neighbour's crops
Who will be injured & mechanism of injury?	Farmers infrastructures resources and both farm workers and personnel working on farm and site
Preventative action recommended	
Description	Category: Reduction/transfer/ control/avoidance
The Contractor is to take appropriate measures to minimise the generation of dust as a result of construction works, to the satisfaction of the Project Manager. A water truck must be on standby at all times to assist with this operation. Daily liaison must be done with the landowner to discuss vehicle movements in relation to dust pollution on crops.	Risk reduction

What is the risk?	Indigenous plants
Hazard Identification?	Risk of damage to environment
Who will be injured & mechanism of injury?	Plants trees, shrubs can be damaged and destroyed by mechanical equipment
Preventative action recommended	
Description	Category: Reduction/transfer/ control/avoidance
Due to the sensitive biodiversity within the riparian zone of the Berg River, the use of any equipment which has the potential to cause extensive damage to the river banks and indigenous flora may not be used. No firewood or plant material to be collected from natural veld.	Risk avoidance

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OCCUPATIONAL HEALTH & SAFETY SPECIFICATION

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What is the risk?	Soil contamination
Hazard Identification?	Risk of pollution to ground and river by its contaminants
Who will be injured & mechanism of injury?	Environment and this invariably falls over to communities, which then in affect the members of the public
Preventative action recommended	
Description	Category: Reduction/transfer/ control/avoidance
Maintenance and service areas should be demarcated during site establishment and all maintenance and service activities contained so as to avoid any contamination of soil and / or water. All vehicles, equipment, fuel and petroleum services and tanks should be maintained in a good condition that prevents leakage and possible contamination of soil or water supplies. Refueling areas should be bunded and lined to prevent spilled fuels and oils from contaminating the ground or water. It is suggested that as a minimum, sandbags should be placed surrounding the bulk fuel supply tank. The floor of the area is to be lined with plastic and a layer of sand of approximately 50mm is placed on top of the plastic. Automatic shut-off nozzles are recommended on all dispensing units. The park and service area should be treated with a suitable hydrocarbon absorption or remediation product. Absorbent spill mop-up products should to be on hand. All servicing should be done with a drip tray present to prevent accidental spillage of oils and fuels. A suitable leak proof container for the storage of oiled equipment (filters, drip tray contents and oil changes, etc.) should be established. All spills to be immediately contained, reported to the Project Manager, and dealt with.	Risk control/ reduction

What is the risk?	Snakes
Hazard Identification?	Being bitten by snakes
Who will be injured & mechanism of injury?	Personnel working on site
Preventative action recommended	
Description	Category: Reduction/transfer/ control/avoidance
As the work entails working in dense brush and biomass areas, the risk of disturbing a snake is very high. Make sure that all personnel are made aware of the increased risk of the presence of snakes.	Risk reduction/control/ avoidance

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OCCUPATIONAL HEALTH & SAFETY SPECIFICATION

Wear proper protective clothing to protect against snake bites. An increased awareness and alertness is the best protection, the snake will not be looking for you, so watch for it. If a snake is seen or reported on site, note the area of the snake and work in this area stops until the hazard is removed. DO NOT approach, attack or otherwise provoke the snake as 95% of those bitten have done this. REMEMBER - IF PROVOKED IT WILL STRIKE. If bitten, the following procedures should apply: 1. Immediately apply a broad firm bandage around the limb and on the bitten area. It should be as tight as one would bind a sprained ankle. As much of the limb should be bandaged as possible. Bind from below upwards. Crepe bandages are ideal, but any flexible material can be used, e.g. tear up clothing or old towels into strips. Panty hose is satisfactory. 2. Keep the limb and the victim as still as possible. Splint the limb. 3. Bring transport to the victim if possible. 4. Leave the bandage and splint on until medical care is reached. Don't cut or excise the bitten area. Don't apply an arterial tourniquet. Don't wash the bitten area. The snake involved may be identified by the detection of venom on the skin.	
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What is the risk?	Bees
Hazard Identification?	Being stung by bees
Who will be injured & mechanism of injury?	Personnel working on site
Preventative action recommended	
Description	Category: Reduction/transfer/ control/avoidance
Upon finding a bee hive/nest, do not try to get rid of the nest or hive yourself. Each type of insect or situation will likely need different removal methods. It is best to call pest control professionals for this service. Upon being stung, most people experience local effects like pain, swelling, itching, and redness around the sting site. In rare cases, a severe allergic reaction can occur. This situation is serious and can cause "anaphylaxis" or	Risk avoidance/control/reduction/transfer

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anaphylactic shock. Symptoms of anaphylaxis can appear immediately (within minutes) or up to 30 minutes later. Symptoms to watch for include: - hives, itching and swelling in areas other than the sting site, - swollen eyes and eyelids, - wheezing, - tightness in the chest and difficulty breathing, - hoarse voice or swelling of the tongue, - dizziness or sharp drop in blood pressure, - shock, - Unconsciousness or cardiac arrest. Although most deaths result from severe allergic reactions, some are caused by direct toxicity of the insect venom. Of those who die from a severe allergic reaction to a sting, half die within 30 minutes, and three-quarters within 45 minutes. If you see any signs of reaction, or even if you are not sure, call or have a co-worker call the emergency medical services right away. Also, get medical help if the sting is near the eyes, nose or throat. People who have been stung multiple times (such as when fleeing from a swarm or nest) can sometimes suffer serious health effects. While rare, death may occur. Employers should be notified if a worker, especially one who works outdoors, has allergies to insect stings. Co-workers should be trained in emergency first aid, be aware of the signs of a severe reaction, and know how to use the bee sting kit (self-injectable epinephrine). Always carry a cellular phone in case you need emergency medical help. The best way to prevent stings is to avoid the insects. Leave the area, if possible. If there is a travelling swarm, they will likely leave within a few days. Note that insect repellent ("bug spray") does not affect these stinging insects. Avoidance and awareness are the keys to not being stung. Before working at a site: - Take a look around. Check to see if there are any visible signs of activity or a hive or nest. If you see a number of insects flying around, check to see if they are entering and exiting from the same hole or place. If so, it is likely a nest or a source of food. - Wear long sleeve shirts, and long pants. If you cannot avoid working near bees or wasps, wear a bee-keepers style hat with netting to cover your	
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	head, neck and shoulders. Tape your pant legs to your boots/socks, and your sleeves to your gloves. You may also wish to wear an extra layer of clothing since wasp stings are long enough to reach through one layer of clothing. • Power tools such as lawnmowers, weed eaters and chainsaws will aggravate the insects. When using these tools, be aware that the tools may provoke the insects or in some cases, cause the insects to swarm. If you find you are working near stinging insects, here are some tips. • Most bees and wasps will not sting unless they are startled or attacked. Do not swat at them or make fast movements. The best option is to let the insects fly away on their own. If you must, walk away slowly, or gently "blow" them away. The only exception is if you have disturbed a nest and hear "wild" buzzing. Protect your face with your hands and run from the area immediately. • Wear light coloured clothes such as khakis, beige, or blue. Avoid brightly coloured, patterned, or black clothing. • Tie back long hair to avoid bees or wasps from getting entangled in your hair. • Be careful when shaking out clothing or towels as the insects could be inside the folds. • If you find a bee or wasp in your car, take a thick cloth and cover the insect before it gets frightened. Carefully, let the insect back outside through an open window. DO NOT • Do not wear perfumes, colognes, scented soaps, or powders as they contain fragrances that are attractive. • Do not go barefoot or wear sandals, especially in areas where there is clover or other flowering plants that attract bees.	
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6. Risk assessments based on scope of work (Is this a high rise building in a built up area? Is it working in a flood plain and/or river with eroded soil conditions?)

What is the risk?	Water
Hazard Identification?	Dangerous medium to work both in/on with mechanized equipment & personnel
Who will be injured & mechanism of injury?	Damage to equipment and personnel injury will vary from dislocation, drowning, broken bones to death
Preventative action recommended	
Description	Category: Reduction/transfer/ control/avoidance
As with all work activities, working over, on, or near water needs to be carried out in a safe and healthy manner adopting appropriate control measures to minimize risks and mitigate the effects of any incident. General controls that may need to be adopted when work is carried out over, on, or near water include provision of appropriate platforms and gangways; safety nets and safety harnesses; illumination; first aid equipment; personal protective equipment and clothing, including personal buoyancy equipment; suitable means of access to and egress from the location; and suitable rescue equipment and procedures. No river work should be carried out by someone working alone. Inspections from the bank may be permitted, but lone working procedures should apply with a short call-in period to the monitoring base. A frequent check that a good telephone signal is available should be made, and the monitoring base should be informed of the location (including which bank) and the direction of travel of any lone worker. A buoyancy aid should be worn. In determining the risk at each site, it is important to: • Assess how quickly water levels can rise; • Prepare an evacuation procedure that will ensure that all personnel – if not equipment – are out of the river before conditions become hazardous.	Risk reduction/control

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What is the risk?	Access to Biomass
Hazard Identification?	Environmental impacts
Who will be injured & mechanism of injury?	Infrastructure
Preventative action recommended	
Description	Category: Reduction/transfer/ control/avoidance
Site access should be monitored and controlled and all access routes should be clearly demarcated in order to minimise environmental impacts. A constant regard must be taken to safety and dangerous areas and should be adequately cordoned off to prevent accidental injury	Risk avoidance

What is the risk?	Access to site / movement
Hazard Identification?	A construction is a dangerous environment regarding vehicles, materials and constant flow of traffic/material and personnel
Who will be injured & mechanism of injury?	Public will be injured and/or killed
Preventative action recommended	
Description	Category: Reduction/transfer/control/avoidance
Construction work should be fenced off and suitably signed. This will protect people from site dangers and the site from vandalism and theft. Site access should be monitored and controlled and all access routes should be clearly demarcated. A constant regard must be taken to safety and dangerous areas and should be adequately cordoned off to prevent accidental injury. Temporary fencing/hoarding with appropriate warning signs must be in place. Make sure there is a system to ensure necessary precautions are kept in place during working hours and that night-time and weekend protection is put in place as required before the site closes	Risk control

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What is the risk?	Structural stability
Hazard Identification?	Unstable working platforms could cause risk of collapse on trenches. Risk of excavations collapsing and burying or injuring people working in them; material falling from the sides into any excavation; and people or plant falling into excavations
Who will be injured & mechanism of injury?	Risk that people be killed or seriously injured by collapses and falling materials while working in excavations
Preventative action recommended	
Description	Category: Reduction/transfer/control/avoidance
<u>COLLAPSE OF EXCAVATIONS</u> Temporary support – Before digging any trench pit, tunnel, or other excavations, decide what temporary support will be required and plan the precautions to be taken. Make sure the equipment and precautions needed (trench sheets, props, baulks etc) are available on site before work starts. Battering the excavation sides – Battering the excavation sides to a safe angle of repose may also make the excavation safer. In granular soils, the angle of slope should be less than the natural angle of repose of the material being excavated. In wet ground a considerably flatter slope will be required <u>FALLING OR DISLODGING MATERIAL</u> Loose materials – may fall from spoil heaps into the excavation. Edge protection should include toeboards or other means, such as projecting trench sheets or box sides to protect against falling materials. Head protection should be worn. Undermining other structures – Check that excavations do not undermine scaffold footings, buried services or the foundations of nearby buildings or walls. Decide if extra support for the structure is needed before you start. Surveys of the foundations and the advice of a structural engineer may be required. Effect of plant and vehicles – Do not park plant and vehicles close to the sides of excavations. The extra loadings can make the sides of excavations more likely to collapse. <u>FALLING INTO EXCAVATIONS</u> Prevent people from falling – Edges of excavations	Risk reduction/avoidance

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should be protected with substantial barriers where people are liable to fall into them. To achieve this, use: - Guard rails and toe boards inserted into the ground immediately next to the supported excavation side; or - fabricated guard rail assemblies that connect to the sides of the trench box - the support system itself, eg using trench box extensions or trench sheets longer than the trench depth. <u>INSPECTION</u> A competent person who fully understands the dangers and necessary precautions should inspect the excavation at the start of each shift. Excavations should also be inspected after any event that may have affected their strength or stability, or after a fall of rock or earth. A record of the inspections will be required and any faults that are found should be corrected immediately.	
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7. Equipment Risks

What is the risk?	Mechanized earthmoving equipment
Hazard Identification?	Collision of mechanized plant in difficult overgrown terrain & environmental damage
Who will be injured & mechanism of injury?	Infrastructure damage, damage to earthmoving equipment and personnel injury will vary from dislocation, broken bones to death
Preventative action recommended	
Description	Category: Reduction/transfer/ control/avoidance
This is specialized work that requires competent human resources that are adequately skilled in working with heavy and dangerous machinery in aquatic and undulating conditions.	Risk Control

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Guidelines and practical advice to all work operations to ensure effective and proper management of working with mechanical plant must be in place. Toolbox talks MUST make all personnel aware of the dangers. Equipment must be checked for proper working controls such as reverse warning sirens, etc. The contractor is hereby directed to the Casidra website to gain access to Working for Water Health & Safety Plan. This must be implemented as part of the contractors Health & Safety plan. The document name is:- WfW Health & Safety Doc on website www.casidra.co.za	
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8. Material Risks

What is the risk?	Herbicide material
Hazard Identification?	Working with toxic/hazardous material
Who will be injured & mechanism of injury?	Personnel working with herbicide and surrounding eco environment
Preventative action recommended	
Description	Category: Reduction/transfer/ control/avoidance
Personal injury, spillage, wastage and defective equipment can cause serious damage if not managed properly. Guidelines and practical advice to work operations to ensure effective and proper management of herbicide must be in place. The contractor is hereby directed to the Casidra website to gain access to Working for Water Health & Safety Plan. This must be implemented as part of the contractors Health & Safety plan. The document name is:- WfW Health & Safety Doc on website www.casidra.co.za	Risk control

What is the risk?	Flammable material
Hazard Identification?	Dangerous to work with and store for prevention of fires
Who will be injured &	Infrastructure damage and injury or death to all persons

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mechanism of injury?	
Preventative action recommended	
Description	Category: Reduction/transfer/ control/avoidance
Fuels and flammable materials should be stored in suitably equipped storage areas demarcated within the Contractor's camp. These areas must comply with general fire safety requirements. No fuel may be stored within drainage lines or areas. Impervious lining materials should be used in these storage areas to prevent contamination of the ground in the event of spillages or leaks, and automatic shut-off nozzles should be used on all dispensing units. Quantities of fuels and flammable/hazardous materials stored on site should be appropriate to the requirement for these substances on site. Fuels and oils should be safely located out of harm's way from the elements. No fuel / oil containers may be left unattended within drainage areas. All open containers containing used oil, etc., should be kept under roof or have adequate water tight lids. All spills to be immediately contained, reported to the Project Manager and dealt with. Adequate fire fighting equipment should be available on site, in good working order, and according to the fire hazard present during construction activities of at least one type ABC all-purpose 12.5kg extinguisher and a water cart with a minimum capacity of 1000 litres for the duration of the contract. Any welding, gas cutting or cutting of metal should only be permitted inside the demarcated working areas for this purpose and these areas should be approved by the Project Manager.	Risk control

9. Ergonomic Risks (Ergonomic hazards refer to workplace conditions that pose the risk of injury to the musculoskeletal system of the worker).

What is the risk?	Drowning, Asphyxiation & felling
Hazard Identification?	On-site injuries due to physical alien biomass clearing taking place
Who will be injured & mechanism of injury?	Personnel injury will vary from dislocation, broken bones to death
Preventative action recommended	
Description	Category: Reduction/transfer/

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	control/avoidance
Guidelines and practical advice to all work operations to ensure effective and proper management of high risk areas must be in place. The contractor is hereby directed to the Casidra website to gain access to Working for Water Health & Safety Plan. This must be implemented as part of the contractors Health & Safety plan. The document name is:- WfW Health & Safety Doc on website www.casidra.co.zsa	Risk reduction/transfer/ control/avoidance

10.Controls specific to client requirements (two day induction, pink overalls, entrance to existing premises, etc.)

What is the risk?	Data Collection
Hazard Identification?	Inaccurate or incomplete data
Who will be injured & mechanism of injury?	Project will suffer as information is needed for budgeting for future projects and reporting against job creation
Preventative action recommended	
Description	Category: Reduction/transfer/ control/avoidance
Ensure that all data records are kept on site in a file, and that information is distributed on a weekly basis so as to ensure that the capturing is done and that on-site activities are measured.	Risk control

11.Personal Protective Equipment (PPE) and Clothing

The principal contractor and other contractors shall ensure that all workers are issued with protective clothing free of charge and make use of the equipment and protection provided such as to wear hard hats, protective footwear, overalls, etc. The Principal Contractor and all Contractors shall make provision and keep adequate quantities of SABS approved PPE on site at all times. The Principal Contractor shall clearly outline procedures to follow when PPE or Clothing is:

- ☐ Lost or stolen;

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- ☐ Worn out or damaged

The above procedure applies to Contractors and their Sub-contractors, as they are all employers in their own right, as per section 37 (2) of the Act.

(The general PPE requirements are attached under Annexure A to this document as well as an additional list of PPE for biomass removal is also attached as Addendum B to this specification).

12. Occupational Health and Safety signage

The Contractor shall provide and maintain adequate on-site OHS signage. Including but not limited to: 'no unauthorised entry', 'report to site office', 'beware of overhead work', 'hard hats, overalls, safety boots, respirators, etc.'. Signage shall be posted up at all entrances to site as well as on site in strategic locations e.g. access routes, stairways, entrances to structures and buildings, scaffolding, and other potential risk areas/operations

13. Fences and access

Construction sites in built-up areas or adjacent to public roads must be suitable and sufficiently fenced off and provided with controlled access points to prevent the entry of unauthorised persons.

14. Admittance to site

A notice must be posted up at every entrance to a building site prohibiting the entry of unauthorised persons to such workplace and no person shall enter such a site without the permission of the employer or user as the case may be. In no circumstances may the wording "Enter at Own Risk" be used

15. Speed Restrictions, construction vehicles and Protection

The Principal Contractor shall ensure that all persons in its employment, all Contractors, and all those that are visiting the site are aware and comply with the site speed restriction(s) and route identification for construction vehicles only. Separate vehicle and pedestrian access routes shall be provided, maintained, controlled, and enforced.

16. Hazardous Chemical Substances (HCS)

The Principal Contractor and other relevant Contractors shall provide the necessary training and information regarding the use, transport, and storage of HCS. The Principal Contractor

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shall ensure that the use, transport, and storage of HCS is carried out as prescribed by the HCS Regulations. The Contractor shall ensure that all hazardous chemicals on site have a Material Safety Data Sheet (MSDS) on site and the users are made aware of the hazards and precautions that need to be taken when using the chemicals. The First Aiders must be made aware of the MSDS and how to treat HCS incidents appropriately.

The below acts are relevant regarding the transporting, storage and application of these agricultural chemicals:

- Fertilizers, farm feeds, agricultural remedies and stock remedies act, 1947 (Act no. 36 of 1947)
- Hazardous Substances Amendment Act, No. 53 of 1992
- The South African National Pesticide registration authority registrar: Act no. 36 of 1947

17. Public and Site Visitor Health and Safety

The Principal Contractor shall ensure that every person working on or visiting the site, as well as the public in general, shall be made aware of the dangers likely to arise from site activities, including the precautions to be taken to avoid or minimise those dangers. Appropriate health and safety notices and signs shall be posted up, but shall not be the only measure taken.

The Principal Contractor has a duty in terms of the OHS Act 85/1993 to do all that is reasonably practicable to prevent members of the public and site visitors from being affected by the construction activities.

Site visitors must be briefed on the hazards and risks they may be exposed to and what measures are in place or should be taken to control these hazards and risks. A record of these 'inductions' must be kept on site in accordance with the Construction Regulations.

18. Occupational Hygiene

Exposure of workers to occupational health hazards and risks is very common in any work environment, especially in construction. Occupational exposure is a major problem and all contractors must ensure that proper health and hygiene measures are put in place to prevent exposure to these hazards. Prevent inhalation, ingestion, absorption, and noise induction.

Contractor must identify site-specific health risks for construction. e.g., cement dust, wet cement, wood-dust, noise, etc.

19. Welfare Facilities

The Principal Contractor must supply the following clean, hygienic and maintained facilities:

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- Shower facilities, after consultation with employees or employee representative (1 shower for every 15 persons).
- Sufficient toilets (1 toilet per 30 workers) and hand washing facilities. Separate toilets needed for both males and females. Toilet paper must be provided.
- Changing facilities for each sex
- Sheltered eating areas
- Waste bins must be strategically placed and emptied regularly.

Workers who are far removed from their homes, reasonable and suitable living accommodation for the workers must be provided and adequate transportation between sites and homes where suitable living accommodation is not available.

20. Alcohol and other Drugs

No alcohol and other drugs will be allowed on site. No person may be under the influence of alcohol or any other drugs while on the construction site. Any person on prescription drugs must inform his/her superior, who shall in turn report this to the Principal Contractor forthwith.

Any person suffering from any illness/condition that may have a negative effect on his/her safety performance must report this to his/her superior, who shall in turn report this to the Principal Contractor forthwith. Any person suspected of being under the influence of alcohol

or other drugs must be sent home immediately, to report back the next day for a preliminary inquiry. A full disciplinary procedure must be followed by the Contractor concerned and a copy of the disciplinary action must be forwarded to the Principal Contractor for his records.

21. Other compliance requirements

Notwithstanding the Occupational Health & Safety Act, the contractor must also confirm to the following acts:

- Basic conditions of employment act 75 of 1997
- National Road Traffic Act 93 of 1996
- National Environmental Management: Biodiversity Act, no 10 of 2004
- National Veld and Forest Fire Act, no 101 of 1998.
- Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Amendment act

22. Management control measures and review

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Risk assessment of the site must be reviewed at least every 30 days. Based on the effectiveness of the existing measures, the safety plan must be adjusted to meet the new or existing identified deficiencies.

23. Electrical Safety

All persons who carry out or arrange for work of any description for **Casidra** in connection with electrical apparatus shall make themselves acquainted with the Occupational Health and Safety Act (Act 85 1993) with particular reference to the Electrical Machinery Regulations, Regulations 1 to 23 inclusive.

The works performed under this contract shall comply in every respect with the latest relevant rules and regulations including following:

- Occupational Safety and Health Act (OSH Act)
- The South African Bureau of Standards Code of Practice SANS 10142
- Normal requirements laid down by Eskom.
- The latest requirements of the IEC and the British Standard Institute, where no SANS codes of practice exist.
- All rules and regulations issued by local and other authorities having jurisdiction over the contract.

NOTE:

The Electrical Installation Regulations clause 6 (2) require electrical contractors to register annually.

“(2) Any person who does electrical installation work as an electrical contractor shall register annually in the form of Annexure 3 with the chief inspector or a person appointed by the chief inspector “

In terms of the OHS Act Electrical Installation Regulations, a Certificate of Compliance (CoC) must be issued by a registered person, defined as “a person registered as an electrical tester for single phase, an installation electrician, or a master installation electrician”. Registered persons may be the owners or employees of electrical contractors. They must be currently registered with the Department of Labour (DoL), and registrations must be renewed annually, bi-annually or every three years depending on the application. No company may do electrical contracting work unless they have a permanently employed registered person as part of the company.

Department of Labour stating the certification as either ‘single phase tester’, “installation electrician” or “master installation electrician” with a unique licence number

Safety equipment

The following equipment required for working on electrical installations and distribution systems, must be maintained in good order and repair and must be made available:

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Safety belt, overalls, hard hat, safety shoes or boots, rubber gloves, "Men Working" notice boards, locks for locking off switches, buss bar shutters in truck-type switchgear, isolators or earthing links, rubber sheet and length of rope with short circuiting earthing-chains, earthing sticks and testing/phasing sticks rated for the voltage of the equipment to be tested.

Under no circumstances shall work be carried out on electrical apparatus unless the proper safety equipment is used

With regard to overhead linesmen, no work shall be carried out unless use is made of a non-metallic ladder and the appropriate safety belt, rubber gloves, overalls, hardhat and safety shoes or boots are worn. The buddy system must also be implemented.

Earthing

Always safety test before applying earths

Risk assessment of the site must be reviewed at least every 30 days. Based on the effectiveness of the existing measures, the safety plan must be adjusted to meet the new or existing.

At completion of the electrical installation work in the tender, a test as required must be performed to ensure safe operation of the equipment and a signed original CoC be supplied to the client.

24.Asbestos

Under no circumstances shall any work of any nature whatsoever on any **ASBESTOS** material be undertaken unless the work is entrusted and mandated to a "**REGISTERED ASBESTOS CONTRACTOR**" in terms of the Asbestos Regulations

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ADDENDUM A – GENERAL MINIMUM PPE REQUIREMENTS

Subject	Requirement
*PPE needs analysis	Need for PPE identified and prescribed in writing. PPE remain property of Employer, not to be removed from premises GSR 2(4)
*Head Protection	All persons on site wearing Safety Helmets including Sub-contractors and Visitors (where prescribed)
*Foot Protection	All employees on site wearing Safety Footwear including Gumboots for concrete / wet work and non-slip shoes for roof work. Visitors to wear same upon request or where prescribed
*Eye and Face Protection	<u>Eye and Face (also Hand and Body) Protection</u> (Goggles, Face Shields, Welding Helmets etc.) used when operating the following: * Jack/ Kango Hammers * Angle / Bench Grinders * Electric Drills (Overhead work into concrete / cement / bricks) * Explosive Powered tools * Concrete Vibrators / Pokers * Hammers & Chisels * Cutting / Welding Torches * Cutting Tools and Equipment * Guillotines and Benders * Shears * Sanders and Sanding Machines * CO2 and Arc Welding Equipment * Skill / Bench Saws * Spray Painting Equipment etc.
*Hearing Protection	<u>Hearing Protectors</u> (Muffs, plugs etc.) used when operating the following: * Jack / Kango Hammers * Explosive Powered Tools * Wood/Aluminium Working Machines e.g., saws, planers, routers
*Hand Protection	<u>Protective Gloves</u> worn by employees handling / using: * Cement / Bricks / Steel / Chemicals * Welding Equipment * Hammers & Chisels * Jack / Kango Hammers etc.
*Respiratory Protection	Suitable/efficient prescribed <u>Respirators</u> worn correctly by employees handling / using: * Dry cement * Dusty areas * Hazardous chemicals

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	* Angle Grinders * Spray Painting etc.
*Fall Prevention Equipment	Suitable <u>Safety Belts</u> / Fall Arrest Equipment correctly used by persons working on / in unguarded, elevated positions e.g.: * Scaffolding * Riggers * Lift shafts * Edge work * Ring beam edges etc. Other methods of fall prevention applied e.g., catch nets
*Protective Clothing	All jobs requiring protective clothing (Overalls, Rain Wear, Welding Aprons etc.) Identified and clothing worn.
*PPE Issue & Control	Identified Equipment issued free of charge. All PPE maintained in good condition. (Regular checks). Workers instructed in the proper use & maintenance of PPE. Commitment obtained from wearer accepting conditions and to wear the PPE. Record of PPE issued kept on H&S File. PPE remain property of Employer, not to be removed from premises GSR 2(4)

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WESTERN CAPE DEPARTMENT OF AGRICULTURE GENERAL SPECIFICATION FOR RIVER REHABILITATION WORKS

Rev 1 April 2016

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Western Cape Department of Agriculture
Elsenburg
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i. **Acknowledgements**

The Western Cape Department of Agriculture LandCare section (especially Hannes Muller and Christie Lourens) are acknowledged for their dedication to river rehabilitation projects and input to this specification.

ii. **Terminology**

Engineer:	The person appointed to represent the Department of Agriculture's technical interests in the project
Contractor:	The person who has tendered for and been appointed to carry out the construction on behalf of the Department of Agriculture
ECO:	The "Environmental Control Officer" appointed in terms of the NEMA regulations to oversee environmental issues on the site.

iii. **Background**

This specification has been compiled to facilitate the execution of river rehabilitation projects funded by National Disaster Relief funding as well as other Provincial sources. Shortcomings in the SANS specification has necessitated the production of a specification to clarify misunderstandings on site.

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1. Reference to other specifications

The following are also specifications relating to rehabilitation work in rivers. Information has been drawn from them, but where there is conflict, for work done for the Western Cape Department of Agriculture this specification takes precedence over all other specifications.

1.1. Western Cape Department of Agriculture

Specification for rock filled wire baskets for constructing hydraulic structures.

Specification for concrete abrasion resistance coating for rock filled wire baskets.

1.2. SANS

SABS 1200DK 1996 Gabion construction

SABS 1580 Gabion material

1.3. Maccaferri

Maccaferri Assembly Manual: Gabion Structures: ZAF/Gabion/Assembly: Eng - Rev 04, Aug 2012

(NB do not use the Maccaferri Assembly Manual Rev 03, 2007)

Maccaferri Product installation guide: Gabions : ZAF/IS/GAB: Eng - Rev 06, Nov 2010

Maccaferri Product installation guide: Reno Mattresses : ZAF/IS/RM: Eng - Rev 06, Nov 2010

2. Planning of the sequence of the works

- 2.1. Before work may proceed the contractor must provide an acceptable method statement to the Engineer describing how the proposed work in the river will progress. This method statement must cover the following:-
 - 2.1.1. How the site will be de-watered sufficiently to enable the work to be executed
 - 2.1.2. The sequencing of the construction of structure(s) and of earthwork berm(s) and the time required for the construction of each item.

3. Site office, materials storage and concrete batching

- 3.1. Before site handover to the Contractor, the Contractor must agree to the location of the site office, materials storage area(s) and concrete batching area(s) with the Engineer, ECO and landowner.

4. Setting out of the works

- 4.1. The Department of Agriculture will provide at least 2 co-ordinated reference beacons from which the works are to be set out.
- 4.2. The setting out of the works and control of levels is the responsibility of the Contractor.
- 4.3. The Contractor must notify the Engineer once the works have been set out so that the Engineer can check the set out positions of pegs if he deems necessary.

5. Care of vegetation on the site

- 5.1. No disturbance of natural vegetation will be allowed unless the prior approval of the Engineer and ECO has been obtained.
- 5.2. Rescued natural vegetation must be stored in a manner and place agreed between the Contractor, Engineer and ECO.
- 5.3. The Special Provisions attached will specify which alien vegetation must be removed.

6. Making provision for managing the flow of water during construction

- 6.1. The Contractor is responsible for damage that occurs to the construction site and the works during floods.
- 6.2. The Contractor has a duty of care to minimise the risk of damage to the environment on the construction site should a flood occur.
- 6.3. Should a temporary drainage channel be dug by the Contractor to drain the site, a method statement in addition to the method statement in section 2.1, detailing the position, width and depth of the proposed channel is required prior to the excavation of the channel. It is the responsibility of the Contractor to ensure that the channel will handle the normal flow of the river and at least annual floods without soil erosion as judged by the Engineer. Deep, narrow channels which encourage high flow depths and velocities, and the erosion of sediment will not be accepted.
- 6.4. The method statement in section 6.3 must also give clear details as to how the temporary channel will be rehabilitated at the end of the project.

7. Earthworks for the finishing the final river channel and constructing the terraces between the groynes

For projects using groynes to protect river banks from lateral erosion the following applies:-

- 7.1. The desired final river bed where groynes protrude from a river bank, must have a uniform cross-fall as well as a uniform fall in the direction of flow. Between the groynes there must be a consolidated soil terrace at a level slightly higher than that of the adjacent river bed. To finish the landscaping of the river bed and the terrace between the groynes, the following construction sequence is required:-
 - 7.1.1. The temporary drainage channel constructed under “drainage of site” in the bill of quantities (should it exist) must first be rehabilitated and the groyne structures backfilled to the soil level which existed prior to the start of construction.
 - 7.1.2. Once the earthworks in section 7.1.1 has been reasonably completed, the Engineer shall issue a direction as to where and how soil must be sourced to construct the terraces between the groynes, as well as the level to which the terrace shall be constructed.
 - 7.1.3. The top of the terraces between the groynes should only be in the order of a half meter above the river bed, except where the terraces butt up against the bank and the Engineer may issue a further instruction to slope the terrace upwards at a 1:3 slope (there are two reasons for this, firstly that the groynes protrude from the fill and can have an impact on the flowing water, and secondly that plants on the terrace are able to access sub-soil moisture).
 - 7.1.4. The line produced by the front edge of the terrace (ie where the terrace starts to rise above the river bed level) should be 8 meters behind a line connecting the groynes at the same level (so that turbulent water flowing over the groyne does not wash the terrace away).
- 7.2. The payment for the landscaping of the river bed once the temporary drainage channel has been rehabilitated, and the construction of the terraces will be paid for under day-works provided for this purpose in the bill of quantities.

8. Sourcing of stone for gabion construction

- 8.1. The Contractor is responsible for sourcing stone for the packing of gabions.
- 8.2. The quality of stone for packing in wire baskets is specified in the WCDOA Specification for rock filled wire baskets for constructing hydraulic structures.



forestry, fisheries & the environment

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REPUBLIC OF SOUTH AFRICA

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Registration Number: WfLC/2024/WC/12

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Cor van der Walt
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8001

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Email Address: Cor.VanderWalt@westerncape.gov.za

PER EMAIL

Dear Sir/Madam

REGISTRATION OF THE RIVER PROTECTION WORKS PROJECT ON THE ALLEMANSFONTEIN RIVER IN THE CENTRAL KAROO, WESTERN CAPE PROVINCE, TO BE EXCLUDED FROM THE REQUIREMENT TO OBTAIN ENVIRONMENTAL AUTHORISATION, BASED ON COMPLIANCE TO A GENERIC ENVIRONMENTAL MANAGEMENT PROGRAMME ADOPTED IN LINE WITH SECTION 24(2)(E) OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT NO. 107 OF 1998)

Your request to register the River Protection Works Project on the Allemansfontein River in the Central Karoo, Western Cape Province as a Generic Environmental Management Programme received by the Department on 02 October 2025 refers.

The Department acknowledges receipt of your request for registration. The documents associated with your request include the following:

1. Registration forms.
2. Declaration of Compliance forms.
3. Environmental Management Programme.
4. Method statement.

This Department hereby confirms that the River Protection Works Project on the Allemansfontein River in the Central Karoo, Western Cape Province (farm Allemansfontein 7) has been registered as a Generic Environmental Management Programme under the LandCare Programme with the Generic EMPr Registration Number: **WfLC/2025/WC/12**. Your project was considered and found to be in compliance with the Generic Environmental Management Programme as adopted in line with Section 24(2)(e) of the National Environmental Management Act 1998 (Act No. 107 of 1998), as such excluded from the requirement to obtain an environmental authorisation for the above-mentioned project.



Batho pele – putting people first

The processing of personal information by the Department of Forestry, Fisheries and the Environment is done lawfully and not excessive to the purpose of processing in compliance with the POPI Act, any codes of conduct issued by the Information Regulator in terms of the POPI Act and/or relevant legislation providing appropriate security safeguards for the processing of personal information of others.

MS

DFFE Reference: WfLC/2024/WC/12

TITLE: REGISTRATION OF THE RIVER PROTECTION WORKS PROJECT ON THE ALLEMANSFONTEIN RIVER IN THE CENTRAL KAROO, WESTERN CAPE PROVINCE, TO BE EXCLUDED FROM THE REQUIREMENT TO OBTAIN ENVIRONMENTAL AUTHORISATION, BASED ON COMPLIANCE TO A GENERIC ENVIRONMENTAL MANAGEMENT PROGRAMME ADOPTED IN LINE WITH SECTION 24(2)(E) OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT NO. 107 OF 1998)

You are reminded that failure to comply with the impact management outcomes and actions set out for identified activities in Part C of the EMPr constitutes an offence in terms of section 49A(1)(d) of the Act.

Yours faithfully



Dr Sabelo Malaza
Chief Director: Integrated Environmental Authorisations
Department of Forestry, Fisheries and the Environment

Date: 03/11/2025

cc:	Graeme Engelbrecht	Information Decision Systems (Pty) Ltd	Email: graeme@ids-cc.co.za
	Creselda Nyeleti Shirinda		Email: Creselda@ids-cc.co.za
	Farzaad Khatieb	CASIDRA - Service Provider	Email: fkhatieb@casidra.co.za



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Private Bag X313, PRETORIA, 0001, 185 Francis Baard Street, Sedibeng Building, Pretoria
Tel: 012 336 7500 Fax: 021 323 4472/012 326 2715

LICENCE IN TERMS OF CHAPTER 4 OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998) (THE ACT)

I, **Mrs Portia Makhanya** in my capacity as Provincial Head: Eastern Cape in the Department of Water and Sanitation and acting under the powers delegated to me by the Minister of Water and Sanitation, hereby authorises the following water use in respect of this licence.

Serial Number : 4647429257241544810
Provincial Head: Eastern Cape
Date: Mar 11 2025 4:16AM

LICENCE NO: 09/L21B/BCI/16071
FILE NO: 27/2/2/L221/2/2
REF. NO: WU31048

Licensee: Casidra SOC Ltd

Postal Address: PO Box 660
Southern Paarl
7624

Physical Address: 22 Louws
Southern Paarl
7624

Provincial Head

B14373

1. Water Uses authorised by this licence

Table 1: Summary of water uses authorised

1	Section 21(c) of the Act	Impeding or diverting the flow of water in a water course; subject to the conditions set out in Appendices I and II.
2	Section 21(i) of the Act:	Altering the bed, banks, course or characteristics of a watercourse; subject to the conditions set out in Appendices I and II.

2. Property (ies) in respect of which the water use licence is issued

Table 2: Property details where the water use(s) will take place

Activity	Farm Name	Farm Portion	Owner's Name	Title Deed Number
Section 21(c) and (i) Water Uses				
Construction of a groyne and weir within the Allemansfontein River	Farm Allemansfontein No 7	Portion 6	Mr. Grobler Daniel Francois (NIC Gobler Farming (Pty) LTD)	T11880/1954

3. Licence and Review Period

- 3.1 This licence is valid for a period of **20** year(s) from the date of issuance and it may be reviewed at intervals of not more than five (5) years.
- 3.2 On review of the licence, a Responsible Authority may amend any condition of the licence, other than the period of validity thereof.

4. Definitions

Any terms, words and expressions as defined in the National Water Act, 1998 (Act 36 of 1998) shall bear the same meaning when used in this licence."

4.1 The following definitions are of relevance, but not exclusive, to this licence

Act	National Water Act, 1998 (Act 36 of 1998)
Buffer zone	Buffer zone: a strip of land surrounding a wetland or riparian area in which activities are controlled or restricted, in order to reduce the impact of adjacent land uses on the wetland or riparian area. The buffer zone is measured from the edge of the delineated watercourse determined according to the Departmental guideline - "A practical field procedure for identification and delineation of wetlands and riparian areas."

CMA	Catchment Management Agency.
Commencement date	The date on which water use starts.
Days	Calendar days.
Delegated Authority	The person that has been delegated certain functions of the Act.
Department	The Department of Water and Sanitation.
Minister	The Minister of the Department of Water and Sanitation.
Provincial Head	Head of Provincial Operations
Extent of the watercourse	(a) the outer edge of the 1:100 year floodline or the delineated riparian habitat, whichever is the greatest, measured from the middle of the watercourse of a river, spring, natural channel, lake or dam; and (b) Wetlands and pans: the delineated boundary (outer temporary zone) of any wetland or pan.
Regulated area of a watercourse	(a) The outer edge of the 1 in 100 year flood line and /or delineated riparian habitat, whichever is the greatest distance, measured from the middle of the watercourse of a river, spring, natural channel, lake or dam; (b) In the absence of a determined 1 in 100 year flood line or riparian area the area within 100m from the edge of a watercourse where the edge of the watercourse is the first identifiable annual bank fill flood bench (subject to compliance to section 144 of the Act); or (c) A 500 m radius from the delineated boundary (extent) of any wetland or pan.
Sensitive riffle habitats	A pool riffle rapid sequences that occur where a mixture of flows and depth provide a variety of habitats to support fish and invertebrate life. Pools are deep with slow water. Riffles are shallow with fast, turbulent water running over rocks. Runs are deep with fast water and little or no turbulence.

5 Description of activity and affected water resource(s)

The water uses entails the construction of a 4.2 m high x 52.69 long m labyrinth groyne and weir within the Allemansfontein River. The river protection works involves a structure built from the riverbed and banks to direct water flow away from riverbanks. This structure will have an estimated temporal storage of 5000 m³ upon construction. The area features a partially active riverine system, and this positions the development area within the Allemasfontein River, thus triggering Section 21 (c) & (i) water uses. The water use will take place on Portion 6 of Farm Allemansfontein No 7 (Major Region Murraysburg), which forms part of the L21B Quaternary Catchment, within the Mzimvubu to Tsitsikamma Water Management Area (WMA). The geographic coordinates at the property where the water uses will take place are -31.756471° S; 23.643921° E.

APPENDIX I

GENERAL PROVISIONS AND CONDITIONS OF THE LICENCE

1. GENERAL PROVISIONS

Legal Framework

- 1.1 This licence is subject to all applicable provisions of the National Water Act, 1998 (Act 36 of 1998) as amended from time to time.
- 1.2 The licence shall not be construed as exempting the Licensee from compliance with the provisions of any other applicable Act, Ordinance, Regulation or By-law.

Administrative duties/obligations/responsibilities of the licensee

- 1.3 The responsibility for complying with the provisions of the licence is vested in the licensee and not any other person or body.
- 1.4 The licensee will be responsible for any water use charges or levies imposed by a Responsible Authority according to the pricing strategy. The levies/charges will be charged from the date of the issuance of this licence.
- 1.5 No water taken may be pumped, stored, diverted, or alienated for any other purpose other than as intended in this licence without the written approval of the Delegated Authority.
- 1.6 It is the responsibility of the licensee to request an amendment of this licence to reflect the registered volume should the requirements change. All requests must be made to the Provincial Head.
- 1.7 If the water use licence is not exercised or fully exercised within the 5 (five) year period and the extended 2 (two) year period, as referred to in condition 2.4 and condition 2.5 in appendix I, the licence may be amended to reflect the extent of the water use that is being exercised, or the licence may be withdrawn

Change of property details

- 1.8 Amendment of the licence to reflect the name of the new owner will not be approved if there are any outstanding charges or levies imposed by the Responsible Authority to the previous owner.

Monitoring

- 1.9 The licensee must adhere to the monitoring programmes submitted with the application.
- 1.10 Any changes to the monitoring programmes should be approved by the Provincial Head.

Effecting of the Reserve

- 1.11 While effect must be given to the Reserve as determined in terms of the Act, where a desktop determination of the Reserve has been used in issuance of a licence, when a comprehensive determination of the Reserve has finally been made, it shall be given effect to.

Liabilities and Rights

- 1.12 The Department accepts no liability for any damage, loss or inconvenience, of whatever nature, suffered as a result of, shortage of water; inundations or flood; siltation of the resource; and required Reserve releases.
- 1.13 The Minister reserves the right to construct water storage works at any time in any watercourse and to store all surplus water reaching the storage works, as well as to control the allocation of such water.

Stormwater Management

- 1.14 Stormwater leaving the licensee's premises shall in no way be contaminated by any substance, whether such substance is a solid, liquid, vapour or gas or a combination thereof which is produced, used, stored, dumped, spilled on the premises.

Amendments

- 1.15 The licensee may apply for amendment of this licence in terms of the Act at any time during the period of validity of this licence. Applications must be submitted to the Provincial Head.

Appeals

- 1.16 If this licence is appealed, it is automatically suspended and the water use activities must cease upon receipt of a notification of the appeal from the Department, alternatively the licensee may request the Minister to lift the suspension pending conclusion of the appeal via the Chief Director Legal Services at the address below:

Private Bag X313,
Pretoria,
0001

2. GENERAL CONDITIONS

Administrative duties/obligations/responsibilities of the Licensee

- 2.1 The licensee must avail an original copy of the water use licence and the supporting reports upon request by the Department.
- 2.2 The conditions of the authorisation must be brought to the attention of all persons (employees, sub-consultants, contractors etc.) associated with the undertaking of these activities and the licensee must take such measures that are necessary to bind such persons to the conditions of this licence.

Commencement of a water use licence.

- 2.3 The licensee must inform the Provincial Head in writing within seven (07) days after the licensee commences with water use licence and again within thirty (30) days upon completion of the activity/ies.
- 2.4 The water uses authorised in this licence must be fully exercised within five (5) years from the date of issuance of this licence.
- 2.5 If the licensee cannot exercise or fully exercise the water use licence within 5 (five) years, the licensee may request from the Provincial Head, with reasons, an extension of time to fully utilise the said water use licence, at least three months, before the expiry of the 5 (five) years. Only one request for extension of time, with maximum of 2 (two) years for commencement or of fully exercising of water use licence will be considered.

Change of details of licensee or property

- 2.6 The licensee must inform the Provincial Head of any change of ownership, name, address, premises and/or legal status within sixty (60) days of such change taking place.
- 2.7 If the properties in respect of this licence is/are subdivided or consolidated, the licensee must provide full details of any change(s) in respect of the properties to the Provincial Head within sixty (60) days after the registration of title deed(s).
- 2.8 If the licensee is not the end user/beneficiary of the water user related infrastructure and will not be responsible for long term maintenance and management of the infrastructure, the licensee must provide a hand over report to the successor in title including a brief management/maintenance plan and the agreement for infrastructure along with allocation of responsibilities, within sixty (60) days after the date of change of end user or beneficiary.

Early renewal for the Licence

- 2.9 The licensee must, if needed, apply for early renewal of this licence in terms of the Act within one (1) year before the expiry date of a licence. The application must be submitted to the Provincial Head.

Malfunctions, incidences, contingencies and pollution prevention

- 2.10 The licensee must service all vehicles and other machinery outside the extent of the watercourse/s.
- 2.11 Oils and other potential pollutants must be disposed of at a licensed site, with the necessary agreement from the owner of such a site.
- 2.12 The licensee must handle, transport, store and use any hazardous substances according to the relevant legislation or South African National Standards (SANS).
- 2.13 Accurate and up-to-date records must be kept of all system malfunctions resulting in non-compliance with the requirements of this licence. The records must be available for inspection by the Provincial Head upon request. Such malfunctions must be tabulated under the following headings with a full explanation of all the contributory circumstances:
- 2.13.1 operating errors;
 - 2.13.2 mechanical failures (including design, installation or maintenance);
 - 2.13.3 environmental factors (e.g. flood);
 - 2.13.4 loss of supply services (e.g. power failure); and
 - 2.13.5 other causes.
- 2.14 The licensee must, within 24 hours, notify the Regional Head of the occurrence or potential occurrence of any incident which has the potential to cause, or has caused water pollution, pollution of the environment, health risks or which is a contravention of the licence conditions.
- 2.15 The licensee must, within 14 days, or a shorter period of time, as specified by the Provincial Head, from the occurrence or detection of any incident referred above, submit an action plan which must include a detailed time schedule to the satisfaction of the Provincial Head of measures to be taken to:
- 2.15.1 correct the impacts resulting from the incident;
 - 2.15.2 prevent the incident from causing any further impacts; and

- 2.15.3 prevent a recurrence of a similar incident
- 2.16 The licensee must adhere to the Wastewater Incident Management Protocol.
- 2.17 The licensee must compile/develop an environmental call and reporting centre protocol, which must ensure the investigation of every complaint within 24 hours.
- 2.18 The licensee must implement and promote an environmental call and reporting centre.
- 2.19 The licensee must rectify all valid issues reported within seven (7) days of the issue being reported to the licensee. All valid complaints must be recorded in complaints register which will include reasons for non-rectification of issues raised.

Membership to a Water Users Association

- 2.20 If a water user association exists or is established in the area to manage the resource, it is compulsory for the licensee to be a member of the water user association. The licensee must adhere to the rules, regulations and water management stipulations of the water user association.

Stormwater Management

- 2.21 Increased runoff due to vegetation clearance and/or soil compaction must be managed, and steps must be taken to ensure that storm water does not lead to erosion and excessive levels of silt entering the stream.
- 2.22 Storm water management facilities must be constructed, operated and maintained in a sustainable manner throughout the project as detailed in the Storm Water Management Plan.
- 2.23 Increased runoff due to vegetation clearance and/or soil compaction must be managed, and steps must be taken to ensure that storm water does not lead to bank instability and excessive levels of silt entering the stream.
- 2.24 All storm-water that would naturally run across the dirty areas shall be diverted via lined channels and drains designed to contain the 1:50 year flood.
- 2.25 The dirty storm water system shall be designed and implemented to provide suitable routing and pumping capacity for contaminated storm water from the individual facilities to the respective storm water dams in accordance with the design specifications.
- 2.26 Clean storm water must be diverted from construction works and must be managed in such a manner as to disperse runoff and to prevent the concentration of storm water flow.

- 2.27 The licensee must ensure that no storm water should ingress into the wastewater system and that there is no wastewater ingress into the storm water system.
- 2.28 Wastewater impoundments must be designed, constructed and managed to ensure that there is sufficient capacity to contain the 1:50 year flood event, with a minimum of 0.8 m freeboard. Freeboard will be defined as the difference between the water level and the crest of the overflow.

Restrictions on access

- 2.29 Strict access procedures must be developed and followed in order to control access to the property. Access to the facility/ies must be limited to authorised persons and animals.
- 2.30 Notices prohibiting unauthorised persons from entering the areas as well as internationally acceptable signs indicating the risks involved in case of an unauthorised entry must be displayed along the boundary fence of these areas.

Auditing and reporting

- 2.31 The licensee must conduct annual internal audits on compliance with the conditions of this licence. The first audit must be conducted within ninety (90) calendar days from the date of commencement of water use entitlement. A report on internal audits must be submitted to the Provincial Head within sixty (60) calendar days of the finalisation of the audits.
- 2.32 The licensee must appoint an independent external auditor to conduct biennial (every two (2) years) external audits on compliance with the conditions of this licence. The first audit must be conducted and finalised within one (1) year after commencement of a water use. A report on the audit must be submitted to the Provincial Head within sixty (60) calendar days of the finalisation of each audit.

Compensative measures

- 2.33 The licensee must prevent adverse effects on other water users. All complaints must be recorded in complaints register and be investigated by a suitable qualified person, accredited by an institution/ registration body, appointed by the licensee, and if investigations prove that the licensee has impaired the rights of other water users, the licensee must implement appropriate compensative measures as determined by the Minister.

Closure Plan

- 2.34 A closure plan of any of the water use activities must be submitted one (1) year before commencing with closure to the Provincial Head for written approval.

APPENDIX II

Section 21(c) water use: Impeding or diverting the flow of water in a watercourse/s Section 21(i) water use: Altering the bed, banks, course or characteristics of a watercourse/s

1. Section 21 (c) and (i) activities

- 1.1 This licence authorises the Section 21(c) or (i) water use activities as set out in Table 3 and in the water use licence application reports submitted to the Department or the Regional Head (refer condition 1.2).

Table 3: Water uses authorised

Water Use description	Purpose	Property/ (ies)	Extent/Dimensions (m)	Coordinates	
				(Start Point)	(End Point)
Section 21 (c) and (i) water uses					
Construction of a groyne and weir within the Allemansfontein River (Point A)	Erosion reduction and control measures , and riverbank protection works	Portion 6 of Land Parcel 7 of the Major Region MURRAY SBURG	H = 4.2 m L = 52.69 m W = 37.49 m	S: 31.75626 1° E: 23.64383 8°	S: 31.75671 7° E: 23.64406 6°
Construction of a groyne and weir within the Allemansfontein River (Point B)	Erosion reduction and control measures , and riverbank protection works	Portion 6 of Land Parcel 7 of the Major Region MURRAY SBURG	H = 4.2 m L = 52.69 m W = 37.49 m	S: 31.75631 9° E: 23.64417 2°	S: 31.75661 6° E: 23.64426 2°

- 1.2 The licensee must carry out and complete all the activities listed under condition 1.1 according to the following:

- 1.2.1 Freshwater Compliance Report Information compiled by Decision Systems (Pty) Ltd, dated October 2024.

- 1.2.2 Hydrological Study compiled by HansKingsSRS (Pty) Ltd, dated November 2023.
- 1.2.3 Stormwater Management Plan compiled by Information Decision Systems (Pty) Ltd, dated April 2024.
- 1.2.4 Rehabilitation and Revegetation Plan compiled by Information Decision Systems (Pty) Ltd, dated June 2024.
- 1.2.5 Generic Environmental Management Programme (EMPr) compiled by Information Decision Systems (Pty) Ltd, dated February 2024.
- 1.2.6 Section 21 (c) & (i) Supplementary water use information (DW775) compiled by Information Decision Systems (Pty) Ltd, dated June 2024.
- 1.2.7 WULA Summary Report compiled by Information Decision Systems (Pty) Ltd, dated June 2024.
- 1.3 No activity must take place within the extent of a watercourse/s, unless authorised by this licence.
- 1.4 No fundamental alterations of the work method statement, site plan/s and drawings are allowed, unless a modification is requested and granted by the responsible authority in writing; and

2. FURTHER REQUIREMENTS

- 2.1 For all the activities listed under condition 1.1, Table 3, "as-built" plans and engineering drawings prepared by a registered professional engineer, must be submitted to the responsible authority within six (6) months of completion of new activities and for existing water uses within six (6) months of the date of issuing of this licence. These plans and drawings must indicate the watercourse/s including wetland boundaries and layout and structure location/s of all infrastructure impeding and/or diverting flow of water in the watercourse/s as well as alternations to watercourse/s on the property/ies.

2.2 Structures, Construction Plant and Materials

- 2.2.1 Structures must withstand a 1:100 year flood.
- 2.2.2 Structures must be non-erosive, structurally stable and must not induce any flooding or safety hazard.
- 2.2.3 Structures must be inspected for a minimum of once a quarter for accumulation of debris, blockage, erosion of abutments and overflow areas - debris must be removed and damages must be repaired and reinforced within a reasonable time.

2.3 Water Quality

2.3.1 In-stream water quality must be analysed on a two-weekly basis during construction otherwise monthly at monitoring points both upstream and downstream of the activities for the following variables until pre-construction water quality levels have been reached:

2.3.1.1 pH;

2.3.1.2 Electrical conductivity (mS/M)

2.3.1.3 Suspended solids (mg/l);

2.3.1.4 Turbidity;

2.3.1.5 Total dissolved solids (mg/l).

2.3.2 Monitoring must be undertaken as set out in condition 3.

2.3.3 Activities must be scheduled to take place during the dry seasons when flows are lowest where reasonably possible.

2.3.4 The licensee must ensure that the quality of the water to downstream water users does not decrease because of the water use activities listed under condition 1.1.

2.4 Flow

2.4.1 The diversion activities must be conducted in a manner that does not negatively affect the yield of the water course where the activity will take place. The licensee must ensure that the overall magnitude and frequency of flow in the watercourse/s does not decrease, other than for natural evaporative losses and authorised attenuation volumes.

2.5 Riparian and Instream Habitat (Vegetation and Physical Structure)

2.5.1 Activities must start up-stream and proceed into a down-stream direction where feasible, so that the recovery processes can start immediately, without further disturbance from upstream works.

2.5.2 Operation and storage of equipment within the riparian habitat must only take place within the approved limits of disturbance indicated in the site plans and work method statements.

2.5.3 Activities must not occur in sensitive riffle habitats unless authorised by this licence.

2.5.4 Indigenous riparian vegetation, including dead trees, outside the limits of disturbance indicated in the site plans must not be removed from the area.

2.5.5 Alien and invader vegetation must not be allowed to further colonise the area, and all new alien vegetation recruitment must be sustainably eradicated or controlled.

- 2.5.6 Soils that have become compacted through the water use activities must be loosened to an appropriate depth to allow seed germination.
- 2.5.7 Stockpiling of removed soil and sand must be stored outside the extent of the watercourse/s, to prevent being washed into the watercourse/s and must be covered to prevent wind and rain erosion.
- 2.5.8 The use of machinery within the instream and riparian habitat will lead to compaction of soils and vegetation and must be restricted to demarcated areas only.

2.6 Biota

- 2.6.1 The licensee must allow movement of aquatic species, including migratory species where applicable.
- 2.6.2 Ensure implementation of all mitigation measures not to disturb the breeding, nesting and/or feeding habitats and natural movement patterns of aquatic biota.

2.7 Rehabilitation and Management

- 2.7.1 The licensee must implement the rehabilitation programme to restore the watercourse/s to environmentally acceptable and sustainable conditions after completion of the activities as outlined in the rehabilitation plan.
- 2.7.2 The rehabilitation must be implemented according to the approved Rehabilitation and Revegetation Plan compiled by Information Decision Systems (Pty) Ltd, dated June 2024.
- 2.7.3 A photographic record must be kept as follows and submitted with reports as set out in condition 3:
- 2.7.4 Dated photographs of all the sites to be impacted before construction commences;
- 2.7.5 Dated photographs of all the sites during construction on a monthly basis; and
- 2.7.6 Dated photographs of all the sites after completion of construction, seasonally.
- 2.7.7 All disturbed areas must be re-vegetated with indigenous plants in consultation with an indigenous plant expert, ensuring that during rehabilitation only indigenous shrubs, trees and grasses are used in restoring the biodiversity.

3. MONITORING AND REPORTING

- 3.1 The monitoring plan must be implemented, and reporting done to the Provincial Head as stipulated under condition 3.2.
- 3.2 Six (6) monthly monitoring reports must be submitted to the Provincial Head for the duration of the construction phase and yearly thereafter or until otherwise agreed in writing with the

Regional Head.

4. SITE SPECIFIC CONDITIONS

- 4.1 During the operation of the project, the PES of the Allemansfontein River within the project must not deteriorate further to lower than D.
- 4.2 The Ecological Importance (EI) and Ecological Sensitivity (ES) of the Allemansfontein River must be maintained at medium.
- 4.3 A plan for an ongoing monitoring of any accumulated flood debris, repair of any erosion that may occur and the maintenance of dense groundcover to stabilise the riverbanks and riparian zone, must be developed and submitted to the Provincial Head within three (3) months of issuance of this licence.
- 4.4 The licensee shall within 30 days after the completion of the activities inform the unit: Compliance Monitoring and Enforcement in writing thereof. It shall be accompanied by a signature of approval from the designer (Professional Engineer) that the construction was done according to the construction drawings and Design Report.

END OF LICENCE

