

RICHMOND LOCAL MUNICIPALITY



UPGRADING OF INDALENI PASSAGES-REHABILITATION OF
SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)
GRADE: 6CE OR HIGHER

TENDER NO.: RLM: 01/2026/2027

PREPARED BY: SIWA CONSULTING AND PROJECT MANAGERS 11 INANDA ROAD HILLCREST 3610 Tel: 087 164 7506 or E-mail Address : sbo@siwaconsultants.africa	ISSUED BY: RICHMOND LOCAL MUNICIPALITY PRIVATE BAG 1028 RICHMOND 3780 Tel: 033 212 2155 Fax: 033 212 4668
NAME OF BIDDER	
.....	
TOTAL BID PRICE (Incl VAT & 10% CONT)	
R	

RICHMOND LOCAL MUNICIPALITY

**UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS
ROAD IN WARD 2 (PHASE 2)
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EXPANDED PUBLIC WORKS PROGRAMME
Creating opportunities towards human fulfilment

2. Conditions of Tender / Bid

- 1) Seal the tender offer in a marked envelope. The envelope must state on the outside the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address on the reverse side. (Please see advert as appeared in media for guidance).
- 2) Prospective tenderers are duly advised that the Richmond Municipality herein referred to as the "client/employer" elsewhere in this document is procuring the services of a Contractor that meets the requirements of the **CIDB, SABS 1200, COLTO, SANS1921, GCC 2015 3rd +00003 Edition, EPWP, GCC 2015** and subsequent amendments and their referring specifications relating to their relevant clauses.
- 3) It is therefore understood that prospective tenderers are of a professional entity that have the abovementioned documentation in their company records and are well versed and up to speed with the relevant amendments.
- 4) In addition to the above, the Richmond Municipality herein referred to as the "client/employer" elsewhere in this document is promoting the services of **Local Enterprises** located within the boundaries of Richmond in terms of its Local Economic Development Initiatives unless otherwise stated. Should a prospective tenderer not comply with the conditions as set out elsewhere in this document he/she will be considered **non-responsive**.
- 5) Labour schedules in accordance with the EPWP template together with supporting documents should be submitted before the 3rd of every month. **IMPORTANT: Non-submission of required information will result in payment certificates/ invoices not being processed for payment.**
- 6) **Performance** of the appointed Contractor will be based on the conditions of the relevant document as stated above or as stated elsewhere in this document. A demerit system is also being implemented and non-compliance may result in contractor being negatively recorded on Richmond Local Municipality's SCM Schedule. This may result in future prospects with the Richmond Local Municipality being adversely affected.
- 7) In terms of the above the Richmond Municipality reserves the right to **terminate** the contract/services should non-compliance of any of the above clauses in the abovementioned documentation be cited, after following due process to remedy any defaults.
- 8) Certified documents are not to be more than **six (6) months old**.
- 9) Please ensure that compliance is required when filling out this tender document failure to do so will result in your tender being regarded **as non-responsive**.
- 10) In addition to (7) above and specific to the preferred tenderer who will be closely monitored, and should **POORPERFORMANCE** be noted, the Richmond Municipality reserves the right to **cancel the agreement**.
- 11) **All supporting documents are to be STAPLED at the front page of this tender document.**
- 12) **Bidders who will be printing the tender document are to print in line with the color format**

Signed

Date

Name

Position

Tenderer

3. SPECIAL CONDITIONS IN RELATION TO SUPPLY CHAIN MANAGEMENT REGULATIONS

- i. The Richmond Municipality reserves the right to return late bid submissions unopened and reserves the right to reject bids that are not submitted in the format specified in the bid documentation or if the information is illegible, incomplete or ambiguous.
- ii. Bidders shall not contact the Richmond Municipality on any matter pertaining to their bid from the time that the bids are submitted to the time the panel has been finalised. Any effort by a bidder to influence the bid evaluation, bid comparisons or bid award decisions in any manner, may result in the rejection of the bid concerned.
- iii. The Richmond Municipality is not bound to accept any of the bids submitted with a lowest quote and reserves the right to withdraw or amend these special conditions of contract and terms of reference by notice in writing to all parties concerned.
- iv. It is also herewith confirmed that a positive result of the short-listing process resulting in inclusion on the Richmond Municipality panel, will not necessarily lead to any appointment or assignment for work to be done and therefore does not constitute a commitment, contract for assignments from the Richmond Municipality.
- v. Bid documents submitted by bidders shall not be returned and shall remain the property of the Richmond Municipality. All bids duly lodged will be evaluated in accordance with the evaluation criteria provided in the terms of reference.
- vi. RLM does not require any presentations as part of the bid process but reserves the right to call short-listed bidders for interviews before final selection for the panel.
- vii. RLM reserves the right to negotiate with the successful bidder on price.
- viii. Government Procurement General Conditions of Contract (GCC) as issued by National Treasury will be applicable on all instances. Any contradictions between the GCC and the Special Conditions then the Special Conditions will be applied. The GCC is available on the National Treasury website (www.treasury.gov.za).
- ix. No advance payment will be made. Payment would be made in terms of the deliverables or other unless otherwise agreed upon by Richmond Municipality in terms of the deliverables or other unless otherwise agreed upon by Richmond Municipality and the successful bidder. RLM will pay within the prescribed period according to MFMA and its applicable policies and procedures.
- x. Richmond Municipality will not be held responsible for any costs incurred by the service provider in the preparation and submission of the Bid.
- xi. Richmond Municipality reserves the right to not award the tender to any bidder.
- xii. Bidders failing to meet all the mandatory requirements will be disqualified.
- xiii. The project must appoint a contractor CIDB Grade 6CE or Higher.
- xiv. Bidders are encouraged to use a spiral Binding for tender documents.
- xv. Submission of financial capabilities in accordance with Regulation 21 of the Municipal Supply Chain Management Regulation:
 - a) Bidders who are legally required, in terms of the Companies Act, 2008 (Act No. 71 of 2008), or any other applicable legislation, to prepare audited annual financial statements shall submit their latest audited annual financial statements.
 - b) Bidders who are not legally required to prepare audited annual financial statements shall submit their latest annual financial statements, prepared by the entity, accounting officer, registered accountant, or other suitably qualified person, together with a declaration confirming that the bidder is not legally required to have its financial statements audited

RICHMOND LOCAL MUNICIPALITY
UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS
ROAD IN WARD 2 (PHASE 2)

THE ENTIRE TENDER DOCUMENT MUST BE SUBMITTED

**THE FOLLOWING DOCUMENTS CONTAINED IN THE TENDER DOCUMENT MUST BE
COMPLETED AND SUBMITTED BY TENDERERS:**

- MBD 1
- MBD 2
- MBD 4
- MBD 5
- MBD 6.1
- MBD 8
- MBD 9
- COMPULSORY SITE INSPECTION
- RECORD OF ADDENDA
- COMPULSORY ENTERPRISE QUESTIONNAIRE
- CERTIFICATE OF AUTHORITY FOR JOINT VENTURE
- SCHEDULE OF PLANT & EQUIPMENT A
- SCHEDULE OF PLANT & EQUIPMENT B
- SCHEDULE FOR MATERIAL & LABOUR
- AMENDMENTS AND QUALIFICATIONS
- FORM OF OFFER AND ACCEPTANCE
- BILL OF QUANTITIES

**THE FOLLOWING ADDITIONAL DOCUMENTS MUST ALSO BE SUBMITTED BY
TENDERERS:**

- TAX CLEARANCE CERTIFICATE (*FOR EACH PARTY OF JOINT VENTURE*)
- PROOF OF ENTERPRISE OWNERSHIP (*FOR EACH PARTY OF JOINT VENTURE*)
- OWNERS ID DOCUMENT (CERTIFIED COPIES NOT OLDER THAN 6 MONTHS) (*FOR EACH PARTY OF JOINT VENTURE*)
- QUALIFICATIONS OF PROJECT STAFF (CERTIFIED COPIES NOT OLDER THAN 6 MONTHS)
- LETTER OF COMMITMENT TO LED OBJECTIVES (SIGNED AND ON BUSINESS LETTERHEAD)
- STATEMENT OF ACCOUNT/RATES (MUNICIPALITY ACCOUNT) OR LEASE AGREEMENT OR IN A CASE A COMPANY IS OPERATING IN A RURAL AREA/ INFORMAL SETTLEMENT AN AFFIDAVIT STATING SUCH AND THAT NO RATES ARE OWED
- FULL CSD REPORT
- LETTER OF GOOD STANDING (COIDA)
- ORIGINAL BANK LETTER FROM A REGISTERED FINANCIAL INSTITUTION
- EVIDENCE OF FINANCIAL CAPABILITY IN ACCORDANCE WITH REGULATION 21 OF THE MUNICIPAL SUPPLY MANAGEMENT REGULATION 2005:
 - (a) Bidders who are legally required, in terms of the companies act, 2008 (act no. 71 of 2008), or any other applicable legislation, to prepare audited annual financial statements shall submit their three (3) year audited annual financial statements.
 - (b) Bidders who are not legally required to prepare audited annual financial statements shall submit their three (3) year annual financial statements, prepared by the entity, accounting officer, registered accountant, or other suitably qualified person, together with a declaration confirming that the bidder is not legally required to have its financial statements audited.
- REFERENCE LETTERS AS PER FUNCTIONALITY.
- CIDB GRADING (FOR EACH PARTY OF JOINT VENTURE)
- CVs OF PROJECT STAFF
- QUALIFICATIONS OF PROJECT STAFF (CERTIFIED COPIES)

NB. FAILURE TO COMPLETE AND SUBMIT ANY OF THE ABOVE DOCUMENTS MAY RENDER A BID AS NON-RESPONSIVE

3.1 Returnable Schedules that will be incorporated into the contract

- Preferencing Schedule (direct preferences) / Preferencing Schedule (contract participation goals)
- Schedule of Quantities

3.2 Other documents that will be incorporated into the contract

- Drawings

Please note that the PDF drawings will be supplied with the tender document at the briefing.

3.3 The offer portion of the C1.1 Offer and Acceptance

C1.2 Contract Data (Part 2)

C2.2 Bills of quantities

3.4 Check list of returnable documents

(Please tick box once all the documents have been submitted).

DESCRIPTION	TICK
MBD 1	
MBD 2	
MBD 4	
MBD 5	
MBD 6.1	
MBD 8	
MBD 9	
COMPULSORY SITE INSPECTION	
RECORD OF ADDENDA	
COMPULSORY ENTERPRISE QUESTIONNAIRE	
CERTIFICATE OF AUTHORITY FOR JOINT VENTURE	
SCHEDULE OF PLANT & EQUIPMENT A	
SCHEDULE OF PLANT & EQUIPMENT B	
SCHEDULE FOR MATERIAL & LABOUR	
AMENDMENTS AND QUALIFICATIONS	
FORM OF OFFER AND ACCEPTANCE	
FORM OF GUARANTEE	
BILL OF QUANTITIES	
TAX CLEARANCE CERTIFICATE (<i>FOR EACH PARTY OF JOINT VENTURE</i>)	
PROOF OF ENTERPRISE OWNERSHIP (<i>FOR EACH PARTY OF JOINT VENTURE</i>)	
OWNERS ID DOCUMENT (CERTIFIED COPIES NOT OLDER THAN 6 MONTHS) (<i>FOR EACH PARTY OF JOINT VENTURE</i>)	
CIDB GRADING (<i>FOR EACH PARTY OF JOINT VENTURE</i>)	
LETTER OF COMMITMENT TO LED OBJECTIVES (ON BUSINESS LETTERHEAD)	
STATEMENT OF ACCOUNT	
FULL CSD REPORT	
LETTER OF GOOD STANDING (COIDA)	
ORIGINAL BANK LETTER FROM A REGISTERED FINANCIAL INSTITUTION	
COMPULSORY SCHEDULE OF SUBCONTRACTORS	
EVIDENCE OF FINANCIAL CAPABILITY IN ACCORDANCE WITH REGULATION 21 OF THE MUNICIPAL SUPPLY MANAGEMENT REGULATION 2005	
REFERENCE LETTERS AS PER FUNCTIONALITY	
CVs OF PROJECT STAFF	
QUALIFICATIONS OF PROJECT STAFF (CERTIFIED COPIES)	

I _____ ID NUMBER _____ HAVE SUBMITTED

THE ABOVEMENTIONED DOCUMENTATION TO THE TENDER DOCUMENT

Signature

TENDER NOTICE
UPGRADING OF INDALeni PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2
(PHASE 2)

TENDER NUMBER:RLM 01/2026/2027

Bids are hereby invited by Richmond Local Municipality seeks to appoint a qualified and experienced service provider for the Upgrading of Indaleni Passages-Rehabilitation of SilahlA Access Road in Ward 2 (Phase 2)

Bidders who are registered with CIDB, in a contractor grading equal than a contractor grading of **6CE or Higher** will be eligible to bid.

Only bidders who are registered with National Treasury Suppliers Database (CSD) will be eligible to bid.

Bid documents must be reserved in writing, through the office of the Supply Chain Management (SCM) email: **sandile.sithole@richmond.gov.za. by 28 August 2026 before 16h00.**

A compulsory briefing session will be held on **Tuesday, 01 September 2026 at 10h00** am and will be held at the Council Chamber, Richmond. The briefing session will then be followed by a site visit which forms part of the compulsory briefing. Tender documents will be available on the day of the briefing.

A non-refundable fee of **R634.20** is payable for each bid document of which only cash will be accepted, bid document may be obtained from the Budget & Treasury Office during normal workings hours (08h00 – 16h00) Monday to Friday at Municipal Offices, 57 Shepstone Street Richmond as from the date of an advert.

The tender will be adjudicated via two stages of which the first stage will be **Functionality** and the second stage will be **80 (price):20 (specific goals)** preference point systems. Each bidder must score a minimum of 70 points for functionality to be considered for the second stage of evaluation.

The completed tender documents complying with the conditions of tender must be sealed and endorsed **UPGRADING OF INDALeni PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2), TENDER NUMBER RLM: 01/2026/2027** and must be hand delivered and deposited in the official tender box located at the reception area of the Richmond Municipality at 57 Shepstone Street during the office hours from 08h00 to 16h00 Monday to Friday.

The closing date for the tender is 28 September 2026 **at 10h00 am** which will be followed by a public opening. Facsimile, electronic and late bids will not be accepted. Documents received post-closing date and time will be returned unopened.

Enquiries are to be directed as follows: (a) Technical Enquiries Ms. Z Vilakazi on Tel: (033) 212 2155 or e-mail: zamaswazi.vilakazi@richmond.gov.za (b) SCM/ Bid Document Enquiries Mr Sandile Sithole on Tel: (033) 212 2155, or e-mail sandile.sithole@richmond.gov.za.

The Richmond Municipality is not obliged to accept the lowest bid or any part thereof and in addition reserves the right not to accept any bid and therefore retains the right not to proceed herein.

MUNICIPAL MANAGER
BE MSWANE

6. EVALUATION OF THE TENDER

The tender will be adjudicated into two stages, of which the first stage will be **functionality**, and the second stage will be the 80/20 preference point system.

6.1 First stage of evaluation: : Functionality

Tenderers that score less than 70% of the points will *not* be considered further.

Functionality Points Table: Please note that bidders must score a minimum of 70% to be considered for further evaluation.

NO.	CRITERIA	WEIGHT
1.	Tenderer's Experience	
	Proof of experience in the successful completion of road infrastructure projects, including road construction, rehabilitation, upgrading, resurfacing and associated road infrastructure works, of similar value, completed within the last five (5) years. A maximum of four (4) appointment letters/purchase orders. Points allocated as follow: • 0 x Projects (0) • 1 x Projects (15) • 2 x Projects (30) • 3 x Projects (45) • 4 x Projects (60) Previous experience on similar projects (Bidders to provide appointment letters/purchase orders and completion letters of projects undertaken for a Government Institution, submitted letters must be signed)	60
2.	Key Personnel: Site Agent / Contracts Manager	
	Qualification required: Degree / N. Diploma in Civil Engineering / Construction Management, LIC NQF 6, registered with professional body, in line the required qualification, points allocated in the following: Experience: 1-3 years' relevant experience (2) 3-5 years' relevant experience (3) 5-8 years' relevant experience (5) Qualification: • Diploma in Civil Eng/ Construction Management (10) • Degree in Civil Eng (15) CV's and qualification of full time, Site Agent (Bidders to provide certified qualifications, proof of certified Identity Documents, certified copies of registration certificates with the relevant Council and comprehensive Curriculum Vitae CV's and certified certificates)	20
3.	Key Personnel: Foreman	

	Qualification required: Matric/N3 LIC NQF 4, points allocated in the following: Experience: • More than 1 – 3 years of relevant experience (2) • More than 3 years - 5 years' relevant experience (3) • 5 years and more relevant experience (5) Qualification: • Martic 1 (3) • N3/ LIC NQF 4 (5) CV's and qualification of full time, Foreman (Bidders to provide certified qualifications, proof of certified Identity Documents, certified copies of registration certificates with the relevant Council and comprehensive Curriculum Vitae CV's and certified certificates)	10
4.	Proof of Plant Ownership/Plant Lease Agreement	
	• 1 x Excavator (3 Points) • 1 x Grader (3 Points) • 2 x Tipper Truck (2 Points) • 1 x Roller (2 Points) Certified proof of ownership should be attached (logbook/proof purchase), when leases bidder to attach original signed letter of intent to lease plant from owner with Logbook Copies.	10
TOTAL		100

6.2 The second stage of evaluation

Point system of 80/20 and will be allocated as follows

No.	DESCRIPTION	POINTS
1	Price	80
2	Specific Goals	20
		100

APPOINTMENT & REFERENCE LETTER VERIFICATION FORM**Date:** _____ **Government organization name** _____

This letter serves as an official confirmation that _____, **Registration Number** _____, was duly appointed to provide the services described below:

Project/Contract Name: _____**Contract/Tender Number:** _____**Scope of Work:** _____**Contract Value:** _____**Contract Commencement Date:** _____ **Contract Completion Date:** _____

We hereby confirm that the above-mentioned bidder successfully performed the contracted services and fulfilled the obligations stipulated in the contract. The work was carried out to a satisfactory standard and in accordance with the agreed project requirements.

Based on our experience, we rate the bidder's performance as follows:

Performance Evaluation	Rating
Quality of Work	☐ Excellent ☐ Good ☐ Satisfactory ☐ Poor
Technical Competence	☐ Excellent ☐ Good ☐ Satisfactory ☐ Poor
Adherence to Schedule	☐ Excellent ☐ Good ☐ Satisfactory ☐ Poor
Contract Management	☐ Excellent ☐ Good ☐ Satisfactory ☐ Poor
Communication & Reporting	☐ Excellent ☐ Good ☐ Satisfactory ☐ Poor
Overall Performance	☐ Excellent ☐ Good ☐ Satisfactory ☐ Poor

STAMP**Authorized Official Name:** _____**Designation:** _____**Signature:** _____**Date:** _____

RICHMOND LOCAL MUNICIPALITY

**UPGRADING OF INDALENI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN
WARD 2 (PHASE 2)**

7. MBD: Procurement Documents:

The following MBD Procurement Documents form part of the mandatory returnable documents.

MBD 1

**PART A
INVITATION TO BID**

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF MUNICIPALITY/ MUNICIPAL ENTITY)

BID NUMBER:	RLM: 01/2026/2027	CLOSING DATE:	28 SEPTEMBER 2026	CLOSING TIME:	10h00
DESCRIPTION	UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)				

THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (MBD7).

BID RESPONSE DOCUMENTS MAY BE DEPOSITED
IN THE BID BOX SITUATED AT (STREET ADDRESS

SUPPLIER INFORMATION

NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
TAX COMPLIANCE STATUS	TCS PIN:		OR	CSD No:	
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES OFFERED?	☐ Yes ☐ No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES OFFERED?		☐ Yes ☐ No [IF YES, ANSWER PART B:3]	
TOTAL NUMBER OF ITEMS OFFERED		TOTAL BID PRICE		R	
SIGNATURE OF BIDDER		DATE			
CAPACITY UNDER WHICH THIS BID IS SIGNED					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:			TECHNICAL INFORMATION MAY BE DIRECTED TO:		
DEPARTMENT		CONTACT PERSON			
CONTACT PERSON		TELEPHONE NUMBER			
TELEPHONE NUMBER		FACSIMILE NUMBER			
FACSIMILE NUMBER		E-MAIL ADDRESS			
E-MAIL ADDRESS					

PART B TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED (NOT TO BE RE-TYPED) OR ONLINE**
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.

2. TAX COMPLIANCE REQUIREMENTS

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VIEW THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR THE TAX COMPLIANCE STATUS (TCS) CERTIFICATE OR PIN MAY ALSO BE MADE VIA E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAYERS WILL NEED TO REGISTER WITH SARS AS E-FILERS THROUGH THE WEBSITE WWW.SARS.GOV.ZA.
- 2.4 FOREIGN SUPPLIERS MUST COMPLETE THE PRE-AWARD QUESTIONNAIRE IN PART B:3.
- 2.5 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
- 2.6 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.7 WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.

3. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

- 3.1. IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?
☐ YES ☐ NO
- 3.2. DOES THE ENTITY HAVE A BRANCH IN THE RSA? ☐ YES
☐ NO
- 3.3. DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?
☐ YES ☐ NO
- 3.4. DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?
☐ YES ☐ NO
- 3.5. IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?
☐ YES ☐ NO

IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.

**NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.
NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE.**

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

DATE:

DECLARATION OF INTEREST

1. No bid will be accepted from persons in the service of the state¹.
2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority.
3. **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**
 - 3.1 Full Name of bidder or his or her representative:
 - 3.2 Identity Number:
 - 3.3 Position occupied in the Company (director, trustee, hareholder²):
 - 3.4 Company Registration Number:
 - 3.5 Tax Reference Number:
 - 3.6 VAT Registration Number:
 - 3.7 The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.
 - 3.8 Are you presently in the service of the state? **YES / NO**
 - 3.8.1 If yes, furnish particulars.
.....

¹MSCM Regulations: “in the service of the state” means to be –

(a) a member of –

- (i) any municipal council;
- (ii) any provincial legislature; or
- (iii) the national Assembly or the national Council of provinces;

(b) a member of the board of directors of any municipal entity;

(c) an official of any municipality or municipal entity;

(d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);

- (e) a member of the accounting authority of any national or provincial public entity; or
- (f) an employee of Parliament or a provincial legislature.

² Shareholder” means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.

3.9 Have you been in the service of the state for the past twelve months?YES / NO

3.9.1 If yes, furnish particulars.....

.....

3.10 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid? YES / NO

3.10.1 If yes, furnish particulars.....

.....

3.11 Are you, aware of any relationship (family, friend, other) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid? YES / NO

3.11.1 If yes, furnish particulars

.....

3.12 Are any of the company’s directors, trustees, managers, principle shareholders or stakeholders in service of the state? YES / NO

3.12.1 If yes, furnish particulars

.....

3.13 Are any spouse, child or parent of the company’s directors trustees, managers, principle shareholders or stakeholders in service of the state? YES / NO

3.13.1 If yes, furnish particulars

.....

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract. YES / NO

3.14.1 If yes, furnish particulars:

.....

4. Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	State Employee Number

.....
Signature

.....
Date

.....
Capacity

.....
Name of Bidder

DECLARATION FOR PROCUREMENT ABOVE R10 MILLION (VAT INCLUDED)

For all procurement expected to exceed R10 million (VAT included), bidders must complete the following questionnaire:

1 Are you by law required to prepare annual financial statements for auditing?

1.1 If yes, submit audited annual financial statements for the past three years or since the date of establishment if established during the past three years.

YES/NO

.....

.....

2 Do you have any outstanding undisputed commitments for municipal services towards a municipality or any other service provider in respect of which payment is overdue for more than 30 days?

2.1 If no, this serves to certify that the bidder has no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days.

YES/NO

2.2 If yes, provide particulars.

.....

.....

19

3.Has any contract been awarded to you by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract?

3.1 If yes, furnish particulars

..... YES/NO

.....

4. Will any portion of goods or services be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality municipal entity is expected to be transferred out of the Republic?

If yes, furnish particulars

..... YES/NO

.....

CERTIFICATION

I, THE UNDERSIGNED (NAME)

CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS CORRECT.

I ACCEPT THAT THE STATE MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

MBD 6.1**PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022**

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 To be completed by the organ of state

(delete whichever is not applicable for this tender).

- (a) The applicable preference point system for this tender is the 80/20 preference point system

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (b) Price; and
(c) Specific Goals.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that

preference points for specific goals are not claimed.

- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

$$Ps = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right) \quad \text{or} \quad Ps = 90 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1. POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

$$P_S = 80 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right) \text{ or } P_S = 90 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

P_{max} = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
 - (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system, then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below. (Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.)

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
An EME or QSE which is at least 51% owned by black people (x5 points)		05		
An EME or QSE which is at least 51% owned by black people who are women (x5 points)		05		
An EME or QSE which is at least 51% owned by black people who are youth (x5 points)		05		
An EME or QSE which is at least 51% owned by black people residing within the jurisdiction: Within Richmond Municipality = 05 Within the District = 03 Within KZN = 02 Outside the Province = 01		05		

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
☐ One-person business/sole propriety
☐ Close corporation
☐ Public Company
☐ Personal Liability Company
☐ (Pty) Limited
☐ Non-Profit Company
☐ State Owned Company

[TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

.....
SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME:

DATE:

ADDRESS:

MBD 8

DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1 This Municipal Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be rejected if that bidder, or any of its directors have:
 - a. abused the municipality's / municipal entity's supply chain management system or committed any improper conduct in relation to such system;
 - b. been convicted for fraud or corruption during the past five years;
 - c. willfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
 - d. been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).
- 4 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

Item	Question	Yes	No
4.1	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? (Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied). The Database of Restricted Suppliers now resides on the National Treasury's website (www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.	Yes ☐	No ☐
4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.	Yes ☐	No ☐
4.2.1	If so, furnish particulars:		

4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes ☐	No ☐
4.3.1	If so, furnish particulars:		
Item	Question	Yes	No
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes ☐	No ☐
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes ☐	No ☐
4.7.1	If so, furnish particulars:		

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME)
CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM TRUE AND CORRECT.

I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
 Signature

.....
 Date

.....
 Position

.....
 Name of Bidder

CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Municipal Bidding Document (MBD) must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3 Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
 - a. take all reasonable steps to prevent such abuse;
 - b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
 - c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
- 4 This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid:

¹ Includes price quotations, advertised competitive bids, limited bids and proposals.

² Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

(Name of Municipality / Municipal Entity)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: _____ that:

(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder.

MBD 9

6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation) methods, factors or formulas used to calculate prices;
 - (c) the intention or decision to submit or not to submit, a bid;
 - (d) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (e) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract

MBD 9

10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

RICHMOND LOCAL MUNICIPALITY

T 1.1 NOTICE OF COMPULSORY SITE INSPECTION

A **compulsory briefing session will** be held on 01 September 2026 at 10h00 am and will be held at the Council Chamber, 57 Shepstone Street, Richmond 3780. The briefing session will then be followed by a site visit which forms part of the compulsory briefing.

Compulsory Briefing Session

It is hereby certified that I have attended the Compulsory Briefing Session and have satisfied myself of the conditions and circumstances.

NAME OF REPRESENTATIVE:

(Please Print)

ON BEHALF OF TENDERER:

ADDRESS:

TELEPHONE NUMBER:

SIGNATURE (FOR TENDERER):

SIGNATURE (FOR CLIENT):

RICHMOND LOCAL MUNICIPALITY**UPGRADING OF INDALENI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)****T1.2 Tender Data**

The conditions of tender are the Standard Conditions of Tender as contained in Annex F of the CIDB Standard for Uniformity in Construction Procurement. (see www.cidb.org.za) which are reproduced without amendment or alteration for the convenience of tenderers as an Annex to this Tender Data.

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.

The additional conditions of tender are:

Clause number	Tender Data
F.1.1	The employer is the Richmond Local Municipality.
F.1.2	The tender documents issued by the employer comprise: T1.1 Tender notice and invitation to tender T1.2 Tender data T2.1 List of returnable documents T2.2 Returnable schedules

Part 1: Agreements and contract data

- C1.1 Form of offer and acceptance
- C1.2 Contract data
- C1.3 Form of Guarantee

Part 2: Pricing data

- C2.1 Pricing instructions
- C2.2 Activity schedules / Bills of Quantities

Part 3: Scope of work

- C3 Scope of work

Part 5 : Richmond Municipality

- C4 Annexure A

F.1.3	The employer (client) is: Name: RICHMOND LOCAL MUNICIPALITY Address: 57 Shepstone Street Private Bag 1028 RICHMOND 3780 Tel: 033-212 2155 Fax: 033-212 4668 E-mail: zamaswazi.vilakazi@richmond.gov.za
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- F.1.4 The following tenderers who are registered with the CIDB, or are capable of being so registered prior to the evaluation of submissions, are eligible to submit tenders:
- a) contractors who have a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a CE class of construction work; and
 - b) contractors registered as potentially emerging enterprises with the CIDB who are registered in one contractor grading designation lower than that required in terms of a) above and who satisfy the following criteria:
 - i) The Contractor, following an interview with the management of the enterprise, is satisfied that the enterprise has the potential to develop and qualify to be registered in a higher contractor grading designation; and
 - ii) The Contractor, following a risk assessment, is able to provide the necessary supportive measures required to enable the enterprise to successfully execute the contract.

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 CE class of construction work; and
- 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 the sum tendered for a CE class of construction work.

- F.1.5 The arrangements for a compulsory clarification meeting are as stated in the Tender Notice and Invitation to Tender.

Tenderers must sign the attendance list in the name of the tendering entity. Addenda will be issued to and tenders will be received only from those tendering entities appearing on the attendance list.

- F.1.6 Where a tenderer desires to submit alternative tender offers, involving modifications to the design or method of construction that would alter the character of the tender, the following procedure must be observed

If tenderer wishes to submit an alternative tender offer, the only criteria permitted for such alternative tender offer is that it demonstrably satisfies the Employer's standards and requirements, the details of which may be obtained from the Employer.

Calculations, drawings and all other pertinent technical information and characteristics as well as modified or proposed Pricing Data must be submitted with the alternative tender offer to enable the Employer to evaluate the efficacy of the alternative and its principal elements, to take a view on the degree to which the alternative complies with the Employer's standards and requirements and to evaluate the acceptability of the pricing proposals. Calculations must be set out in a clear and logical sequence and must clearly reflect all design assumptions. Pricing Data must reflect all assumptions in the development of the pricing proposal.

Acceptance of an alternative tender offer will mean acceptance in principle of the offer. It will be an obligation of the contract for the tenderer, in the event that the alternative is accepted, to accept full responsibility and liability that the alternative offer complies in all respects with the Employer's standards and requirements.

The modified Pricing Data must include an amount equal to 5% of the amount tendered for the alternative offer to cover the Employer's costs of confirming the acceptability of the detailed design before it is constructed.

- F.1.7 Parts of each tender offer communicated on paper shall be submitted as an original, plus 0 copy.
- F.1.8 The employer's address for delivery of tender offers and identification details to be shown on each tender offer package are:
- Location of tender box:** Richmond Local Municipality, reception area.
Physical address: 57 Shepstone Street
Identification details: "Tender No. RLM: 01/2026/2027 UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)"
- F.1.9 The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.
- F.2.0 Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.
- F.2.1 The tender offer validity period is 90 calendar days
- F.2.2 The tenderer shall, when requested by the Employer to do so, submit the names of all management and supervisory staff that will be employed to supervise the labour-intensive portion of the works together with satisfactory evidence that such staff members satisfy the eligibility requirements.
- F.2.3 The tenderer is required to submit with his tender a Certificate of Contractor Registration issued by the Construction Industry Development Board and a **TCS Pin** issued by the South African Revenue Services or CSD number.
Where a tenderer satisfies CIDB contractor grading designation requirements through joint venture formation, such tenderers must submit the Certificates of Contractor Registration in respect of each partner.
- F.2.4 Tenders will be opened immediately after the closing time for tenders at Richmond Local Municipality at 10h00 am on 28 September 2026
- The procedure for the evaluation of responsive tenders is as per page 8.
- Up to 100 minus W₁ tender evaluation points will be awarded to tenderers who complete the preferencing schedule and who are found to be eligible for the preference claimed.
- F.2.6 Tender offers will only be accepted if:
- the tenderer is registered with the Construction Industry Development Board in an appropriate contractor grading designation;
 - the tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;
 - the tenderer has not:
 - abused the Employer's Supply Chain Management System; or
 - failed to perform on any previous contract and has been given a written notice to this effect; and
 - has completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process.
- F.2.7 The number of paper copies of the signed contract to be provided by the employer is one.

Record of Addenda to tender documents

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:

	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		

Attach additional pages if more space is required.

Signed

Date

Name

Position

Tenderer

Compulsory Enterprise Questionnaire

The following particulars must be furnished. In the case of a joint venture, **separate** enterprise questionnaires in respect of each partner must be completed and submitted.

Section 1: Name of enterprise:

Section 2: VAT registration number:

Section 3: CIDB registration number:

Section 4: B-BBEEE Level:.....

Section 4: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

* Complete only if sole proprietor or partnership and attach separate page if more than 3 partners

Section 5: Particulars of companies and close corporations

Company registration number

Close corporation number

Tax reference number

Section 6: Record in the service of the state

Indicate by marking the relevant boxes with a cross, if any sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months in the service of any of the following:

- | | |
|--|---|
| ☐ a member of any municipal council | ☐ an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999) |
| ☐ a member of any provincial legislature | |
| ☐ a member of the National Assembly or the National Council of Province | ☐ a member of an accounting authority of any national or provincial public entity |
| ☐ a member of the board of directors of any municipal entity | ☐ an employee of Parliament or a provincial legislature |
| ☐ an official of any municipality or municipal entity | |

If any of the above boxes are marked, disclose the following:

Name of sole proprietor, partner, director, manager, principal shareholder or stakeholder	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*insert separate page if necessary

Section 7: Record of spouses, children and parents in the service of the state

Indicate by marking the relevant boxes with a cross, if any spouse, child or parent of a sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months been in the service of any of the following:

- | | |
|--|---|
| ☐ a member of any municipal council | ☐ an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999) |
| ☐ a member of any provincial legislature | |
| ☐ a member of the National Assembly or the National Council of Province | ☐ a member of an accounting authority of any national or provincial public entity |
| ☐ a member of the board of directors of any municipal entity | ☐ an employee of Parliament or a provincial legislature |
| ☐ an official of any municipality or municipal entity | |

Name of spouse, child or parent	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*insert separate page if necessary

The undersigned, who warrants that he / she is duly authorized to do so on behalf of the enterprise:

- i) authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- ii) confirms that neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
- iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;
- iv) confirms that I / we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and
- iv) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Signed

Date

Name

Position

Enterprise name

Certificate of Authority for Joint Ventures

This Returnable Schedule is to be completed by joint ventures.

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorize Mr/Ms
 , authorized signatory of the company
 , acting in the capacity of lead partner, to sign all
 documents in connection with the tender offer and any contract resulting from it on our behalf.

NAME OF FIRM	ADDRESS	DULY AUTHORIZED SIGNATORY
Lead partner		Signature. Name Designation
		Signature. Name Designation
		Signature. Name Designation
		Signature. Name Designation

Compulsory Schedule of Plant and Equipment Part A

The following are lists of major items of relevant plant and equipment that I / we presently own and will have available for this contract.

(a) Details of major equipment that is owned by and immediately available for this contract.

(b) Please provide proof of ownership. (Please be advised that the proof submitted must reflect name/s of the tenderer or partners to joint venture.

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

Compulsory Schedule of Plant and Equipment

Part B

(In cases where the appointed Contractor does not have that particular Plant & Equipment and it is available locally)

Richmond Municipality Local Economic Development (LED) Initiatives.

In terms of Richmond Municipality LED Initiatives it is compulsory that all Plant & Equipment (in case where the appointed Contractor does not have that partic

ular Plant or Equipment and it is available locally) to be sourced locally. Only if all sourcing of hiring Plant & Equipment has been exhausted in Richmond, will hire of Plant & Equipment outside Richmond's boundary be justified. (Please contact the Municipality for details). The successful bidder is required to submit proof for auditing purposes to the LED Unit.

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

Compulsory Schedule for all Material and Labour (skilled & unskilled)

Richmond Municipality Local Economic Development (LED) Initiatives.

In terms of Richmond Municipality LED Initiatives it is compulsory that all materials, labour (skilled & unskilled) be sourced locally. Only if all sourcing of materials, labour (skilled) has been exhausted in Richmond, will sourcing outside Richmond's boundary be justified. **Documentary proof** is required to justify that no said material and said labour (skilled) is available in Richmond. The successful bidder is advised that proof of local procurement is required for auditing purposes by the LED Unit.

In addition to the above, the sourcing of labour (skilled & unskilled) will be in line with the Municipality's EPWP Beneficiary Engagement Policy. Details of which will be available on award.

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

Compulsory Schedule of the Tenderer's Experience

Tenderer to include **letter of reference** from clients rendering work with similar nature for CIDB applicable to this project or **completion certificate** in the past 5 years.
The following is a statement of similar work successfully executed by myself / ourselves:

Employer contact person and telephone number.	Description of contract	Value of work inclusive of VAT (Rand)	Date completed

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

Proposed amendments and qualifications

The Tenderer should record any deviations or qualifications he may wish to make to the tender documents in this Returnable Schedule. Alternatively, a tenderer may state such deviations and qualifications in a covering letter to his tender and reference such letter in this schedule.

The Tenderer's attention is drawn to clause F.3.8 of the Standard Conditions of Tender referenced in the Tender Data regarding the employer's handling of material deviations and qualifications.

Page	Clause or item	Proposal

M

Signed	Date
--------	------

Name	Position
------	----------

Tenderer

KEY PERSONNEL

In terms of the Project Specification and the Conditions of Tender, unskilled workers may only be brought in from outside the local community if such personnel are not available locally.

The Tenderer shall list below the key personnel which he intends to utilize on the Works.

CATEGORY OF EMPLOYEE	KEY PERSONNEL, PART OF THE CONTRACTOR'S ORGANISATION	NUMBER
Project Leader		
Construction Project Managers		
Foremen, Quality Control and Safety Personnel		
Others:		
.....		
.....		
.....		
.....		
.....		

SIGNATURE:
(of person authorized to sign on behalf of the Tenderer)

DATE:

CURRICULUM VITAE OF KEY PERSONNEL

[Curriculum Vitae of key personnel to be inserted here]

RICHMOND LOCAL MUNICIPALITY

UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2) PROJECT

C1.1 Form of Offer and Acceptance

Offer

The employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the:

UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2) PROJECT

The tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the returnable schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the tenderer, deemed to be duly authorized, signing this part of this form of offer and acceptance, the tenderer 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.

THE OFFERED TOTAL OF THE PRICE INCLUSIVE OF 15% VALUE ADDED TAX AND 10% CONTINGENCIES IS:

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

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 tenderer before the end of the period of validity stated in the tender data, whereupon the tenderer becomes the party named as the contractor in the conditions of contract identified in the contract data.

Signature Date

Name

Capacity

for the tenderer

(Name and
 address of
 organization)

.....
 Name and
 signature
 of witness

Acceptance

By signing this part of this form of offer and acceptance, the employer identified below accepts the tenderer'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 tenderer's offer shall form an agreement between the employer and the tenderer 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 C1: Agreements and contract data, (which includes this agreement)
- Part C2: Pricing data
- Part C3: Scope of work.
- Part C4: Drawings

and drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 4 above.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the tender schedules as well as any changes to the terms of the offer agreed by the tenderer 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.

The tenderer 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. Failure to fulfill 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 tenderer receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the tenderer (now contractor) within five working 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.

Signature Date

Name

Capacity

for the

Employer

Richmond Local Municipality
57 Shepstone Street
Richmond
3780

Name and Date

signature

of witness

Part 1:2 Contract Data completed by the Employer

GCC Clause	Information
1.1.1.13	The Defects Liability Period is 0 months measured from the date of the Certificate of Completion.
1.1.1.14	The time for achieving Practical Completion is 6 Months measured from the Commencement Date, including special non-working days.
1.1.1.15	The name of the Employer is the Richmond Local Municipality
1.1.1.15.1	The address of the Employer is: Telephone: 033 212 2155 Facsimile: 033 212 4668 Address (physical): 57 Shepstone Street, Richmond Address (postal): Private Bag 1028 Richmond KwaZulu-Natal 3780
1.1.1.16	The name of the Engineer is Siwa Consulting Engineers
1.1.1.16.1	The address of the Engineer/Client is: Address (physical): 11 Inanda Road, Hillcrest Address (postal): 07 DEERHURST CRESENT COTSWOLD DOWNS GOLF AND COUNTRY ESTATE HILLCREST 3610 Telephone: 087 164 7506 e-mail address: sbo@siwaconsultants.africa
3.1.3	The Engineer is required to obtain the specific approval of the Employer for any expenditure in excess of the Contract Price
5.3.1	The Contractor shall commence executing the Works within 14 days of the Commencement Date
5.3.2	The documentation required before commencement with Works execution are: Health and Safety Plan (Clause 4.3) Initial Programme (Clause 5.6) Surety (Clause 6.2) Insurance (Clause 8.6) Letter of good standing for and COIDA (Workman's Compensation). Proof of Notification for construction works to the Department of Labour
5.3.2	The documentation required before commencement with Works execution is to be submitted within 14 days of the Commencement Date.
5.8.1	The special non-working days are public holidays, Saturdays, Sundays and the days on which the contractor grants the majority of his permanent workforce leave around the 16th December and the first Monday of the subsequent year. New Year's Day, Human Rights Day, Good Friday, Family Day, Freedom Day, Workers' Day, Youth Day, National Women's Day, Heritage Day, Day of Reconciliation, Christmas Day and the Day of Goodwill. The construction industry year end break commences on the first working day after 15 December and end on the first working day after 5 January of the next year

UPGRADING OF INDALENI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

5.13.1	The penalty for failing to complete the Works is R 2500 per calendar day.
5.16.3	The latent defects period is 10 years
6.2.1	The surety to be provided by the Contractor shall be: Performance guarantee of 10% of the Bid sum up to the issue of the certificate of completion.
6.5.1.2.3	Price adjustment for variations in the cost of special materials is not allowed.
6.10.3	The percentage retention on the amounts due to the Contractor is 10%. The limit of retention money is 10% of the amount of the Bid offer, excluding contingencies and VAT. A Retention Money Guarantee is permitted

Part 1:3 Contract Data completed by the Employer

REF. CLAUSE DATA BY CONTRACTOR
No

1.1.1.9 Name of Contractor:

1.2.1.2 Address of Contractor:

Physical: Postal:

E-mail:

Telephone No: Fax No:

6.8.3 The variations in cost of special materials will be based on the following:
Special Material Unit Rate or Price

RICHMOND LOCAL MUNICIPALITY
UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS
ROAD IN WARD 2 (PHASE 2) PROJECT

C1.4 Form of Guarantee

TENDER NO.

WHEREAS **THE RICHMOND LOCAL MUNICIPALITY** (hereinafter referred to as the Employer”) entered into, a Contract with:

.....
 (Hereinafter called “the Contactor”) on the day of20.....
 for the UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN
 WARD 2 (PHASE 2) PROJECT Municipal area.

AND WHEREAS it is provided by such Contract that the Contractor shall provide the Employer with security by way of a guarantee 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 guarantee;

NOW THEREFORE WE do hereby guarantee and bind ourselves jointly and severally as Guarantor and Co-principal Debtors to the Employer under renunciation of the benefits of division and excussion for the due and faithful performance by the Contractor of all 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 authorized and/or contemplated by the terms of the said Contract, and/or 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 completion date which the Employer may make, give, concede or agree to under the said Contract.
2. This guarantee shall be limited to the payment of a sum of money.
3. The Employer shall be entitled, without reference to us, to release any guarantee held by it, and to give time to or compound or make any other arrangement with the Contractor.
4. 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.
5. Our total liability hereunder shall not exceed the Guaranteed Sum of
Rand (in words); R
 (in figures)

6. The Guarantor reserves the right to withdraw from this guarantee by depositing the Guaranteed Sum with the beneficiary, whereupon our liability hereunder shall cease.

7. We hereby choose our address for the serving of all notices for all purposes arising here from as

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

IN WITNESS WHEREOF this guarantee has been executed by us at
on this day of 20

Signature

Duly authorized to sign on behalf of

Address
.....
.....

As witnesses:

1

2

DECLARATION (to be signed in the presence of a Commissioner of Oaths)

We/I declare that in terms of section 5(2) of the Municipal Structures Act No. 117 of 1998, which states that

“A councilor who, or whose spouse, partner, business associate or close family member, acquired or stands to acquire any direct benefit from a contract concluded with the municipality, must disclose full particulars of the benefit of which the councilor is aware at the first meeting of the municipal council at which it is possible for the councilor to make the disclosure”.

FURTHER

The undersigned, who warrants that he/she is duly authorized to do so on behalf of the firm, confirms that the firm complies with all requirements for registration as an affirmable Business Enterprise as defined, and the contents of this affidavit are within my personal knowledge, and save where stated otherwise are to the best of my belief both true and correct.

Signature:..... **Name:**.....

(1) Duly authorised to sign on behalf of

.....

Address:

.....

.....

Telephone:

Signed and sworn to before me.....

On this the.....day of.....by the Deponent, who has acknowledged that he/she knows and understands the contents of this Affidavit, that it is true and correct to the best of his /her knowledge and that he/she has no objection to taking the prescribed oath, and that the prescribed oath will be binding on his/her conscience.

Commissioner of Oaths:

Designation:

Address:

.....

.....

ALL PAGES OF THIS AFFIDAVIT MUST BE INITIALED BY BOTH THE DEPONENT AND THE COMMISSIONER OF OATHS.

C1.5 RETENTION MONEY GUARANTEE

PRO FORMA

RETENTION MONEY GUARANTEE

RICHMOND LOCAL MUNICIPALITY

CONTRACT No: RLM 01/2026/2027

PROJECT NAME: UPGRADING OF INDALENI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

ISSUED TO: the **Richmond Local Municipality**

Represented by **MUNICIPAL: MANAGER** (Hereinafter referred to as "the Employer")

ON BEHALF OF: (Hereinafter referred to as "the Contractor")

In connection with

CONTRACT NO: RLM 01/2026/2027 Hereinafter referred to as "the Contract")

WHEREAS the Employer and the Contractor have agreed that the Contractor may provide a guarantee in lieu of the whole or portion of the retention monies provided for under the Contract;

NOW THEREFORE we, the undersigned, undertake, in accordance with the following provisions, to pay the Employer such amounts as the Employer may, from time to time, demand from us.

1. Each demand by the Employer shall be in writing signed by the Employer and delivered to us at

or such other address as we shall in writing notify to the Employer and shall be accompanied by a certificate complying with Clause 2, signed by the Engineer in office as such in terms of the Contract.

2. The Engineer's certificate referred to in Clause 1 shall certify

- (a) that he is the Engineer in office as such in terms of the Contract,
- (b) that the Contractor is in breach of his obligations under the Contract, and
- (c) that the amount demanded, which amount the certificate shall specify,

- (i) does not exceed the amount of retention monies which, but for this guarantee, would have been retained by the Employer in terms of the Contract at the date of the certificate, less the aggregate of the amounts of retention money actually retained by the Employer and the amounts previously paid by us to the Employer in terms hereof, and

- (ii) does not exceed a genuine estimate of the cost to the Employer of having the breach referred to in paragraph (b) remedied less the aggregate of any amounts withheld by the Employer from payments due the Contractor in terms of the Contract by reason of the breach referred to, and any amount in retention money actually held by the Employer save to the extent that the same had been deducted from any previous demand in terms hereof.

3. We shall within 28 days after our receipt of a demand complying with the provisions of Clauses 1 and 2 make payment to the Employer of the amount demanded at Lot 57 Shepstone Street, Richmond or at such other address as the Employer shall in writing notify us.

4. Subject to compliance with the provisions thereof, our liability to make the payments herein referred to shall be unconditional and shall not be affected nor diminished by any disputes, claims or counterclaims between the Employer and the Contractor.
5. Our aggregate liability under this guarantee is limited to R
6. This guarantee shall expire on the date on which the last of the retention monies, which but for this guarantee would have been retained by the Employer, becomes payable to the Contractor.
7. This guarantee is not transferable and must be produced for endorsement if any part payment is made and must be returned to us against final payment of our aggregate liability or on the date of the expiry of the guarantee in terms of Clause 6, whichever is the earlier.

Signed in the presence of the subscribing witnesses:

At for and on behalf of

on this day of

Signature :

Capacity:

Address:.....

As Witnesses:

1. Name in Block Letters

2. Name in Block Letters

C2.1 Pricing Instructions

C2.1 Pricing Instructions

1. GENERAL

The Bill of Quantities forms part of the Contract Documents and must be read and priced in conjunction with all the other documents comprising the Contract Documents, which include the Conditions of Tender, Conditions of Contract, the Specifications (including the Project Specification) and the Drawings.

2. DESCRIPTION OF ITEMS IN THE SCHEDULE

The Bill of Quantities has been drawn up generally in accordance with the relevant provisions of the SABS 1200 Standard Specification for Road and Bridge Works for State Authorities published by the SA Institution of Civil Engineers (SAICE).

The short descriptions of the items in the Bill of Quantities are for identification purposes only and the measurement and payment clause of the SABS 1200 Standard Specifications and the Particular Specifications, read together with the relevant clauses of the amendments and additions contained in the Project Specification and directives on the drawings, that set out what ancillary or associated work and activities are included in the rates for the operations specified.

The item numbers appearing in the Bill of Quantities refer to the corresponding item numbers in the SABS 1200 Standard Specifications (1998 edition). Item numbers prefixed by the letter B refer to items of payment described in Part B amendments to the standard specification.

For the purposes of this Bill of Quantities, the following words shall have the meanings hereby assigned to them:

Unit: The unit of measurement for each item of work as defined in the specifications.

Quantity: The number of units of work for each item.

Rate: The payment per unit of measurement at which the Tenderer tenders to do the work.

Amount: The product of the quantity and the rate tendered for an item.

Lump Sum: An amount tendered for an item, the extent of which is described in the Bill of Quantities, the specifications or elsewhere but the quantity of work of which is not measured in any units.

3. QUANTITIES REFLECTED IN THE SCHEDULE

The quantities given in the Bill of Quantities are estimates only, and subject to re-measure during the execution of the work. The quantities finally accepted and certified for payment, and not the quantities given in the bill of quantities, shall be used to determine payments to the Contractor. The Contractor shall obtain the Engineer's detailed instructions for all work before ordering any materials or executing work or making arrangements for it. The quantities of material or work stated in the Bill of Quantities shall not be regarded as authorisation for the Contractor to order material or to execute work.

The Works as finally completed in accordance with the Contract shall be measured and paid for as specified in the Bill of Quantities and in accordance with the General and Special Conditions of Contract, the SABS 1200 Standard Specifications sub-clause 1209(a) and Project Specifications and the Drawings. Unless otherwise stated, items are measured net in accordance with the Drawings, and no allowance has been made for waste. The validity of the contract will in no way be affected by differences between the quantities in the Bill of Quantities and the quantities finally certified for payment.

4. PROVISIONAL SUMS

Where Provisional sums or Prime Cost sums are provided for items in the Bill of Quantities, payment for the work done under such items will be made in accordance with Clause 45 of the General Conditions of Contract 2015, 3rd Edition. The Employer reserves the right, during the execution of the works, to adjust the stated amounts upwards or downwards according to the work actually done under the item, or the item may be omitted altogether, without affecting the validity of the Contract.

The Tenderer shall not under any circumstances whatsoever delete or amend any of the sums inserted in the "Amount" column of the Bill of Quantities and in the Summary of the Bill of Quantities unless ordered or authorised in writing by the Employer before closure of tenders. Any unauthorised changes made by the Tenderer to provisional items in the schedule, or to the provisional percentages and sums in the Summary of the Bill of Quantities, will be treated as arithmetical errors.

5. PRICING OF THE BILL OF QUANTITIES

The prices and rates to be inserted by the Tenderer in the Bill of Quantities shall be the full inclusive prices to be paid by the Employer for the work described under the several items, and shall include full compensation for all costs and expenses that may be required in and for the completion and maintenance during the defects liability period of all the work described and as shown on the drawings as well as all overheads, profits, incidentals and the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the Tender is based. The rates and lump sums shall be comprehensive in accordance with sub clause 1209(b) of the SABS 1200 Standard.

Each item shall be priced and extended to the "Total" column by the Tenderer, with the exception of the items for which only rates are required, or items which already have Prime Cost or Provisional Sums affixed thereto. If the Contractor omits to price any items in the Bill of Quantities, then these items will be considered to have a nil rate or price.

All items for which terminology such as "inclusive" or "not applicable" have been added by the Tenderer will be regarded as having a nil rate which shall be valid irrespective of any change in quantities during the execution of the Contract.

Should the Tenderer group a number of items together and tender one lump sum for such group of items, this single lump sum shall apply to that group of items and not to each individual item.

The tendered lump sums and rates shall be valid irrespective of any change in the quantities during the execution of the contract.

The Tenderer shall fill in rates for all items where the words "rate only" appear in the "Total" column. The provisions of sub clause 1209(f) of the SABS 1200 Standard Specifications shall apply in rate only items. "Rate Only" items have been included where:

- (a) an alternative item or material is contemplated;
- (b) variations of specified components in the make-up of a pay item may be expected; and
- (c) no work under the item is foreseen at tender stage but the possibility that such work may be required is not excluded.

For "Rate Only" items no quantities are given in the "Quantity" column but the quoted rate shall apply in the event of work under this item being required. The Tenderer shall however note that in terms of the Tender Data the Tenderer may be asked to reconsider any such rates which the Employer may regard as unbalanced.

Reasonable compensation will be received where no payment item appears in respect of work required in terms of the Contract which is not covered in any other pay item.

All rates and amounts quoted in the Bill of Quantities shall be in Rands and cents and shall include all levies and taxes (other than VAT). VAT will be added in the summary of the Bill of Quantities. Note fractions of a

cent in all rates shall be discounted.

6. CORRECTION OF ENTRIES

Incorrect entries shall not be erased or obliterated with correction fluid but must be crossed out neatly. The correct figures must be entered above or adjacent to the deleted entry, and the alteration must be initialed by the Tenderer.

7. INTERIM PAYMENTS

Unless otherwise specified in the Specifications and Project Specifications, progress payments in Interim Certificates, referred to in Clause 49 of the General Conditions of Contract 2015 3rd Edition, in respect of "sum" items in the Bill of Quantities shall be by means of interim progress instalments assessed by the Engineer and based on the measure in which the work actually carried out relates to the extent of the work to be done by the Contractor.

Notwithstanding any custom to the contrary, the work as executed will be measured for payment in accordance with the methods described in the contract documents under the various items of payment.

Attention is directed to the provisions of clause 1220 of the standard specifications regarding the measurement of quantities for payment. Except where specified otherwise than in clause 1220, the nett measurements or mass of the finished work in place shall be taken for payment, but any quantity of work in excess of that prescribed shall be excluded.

8. UNITS OF MEASUREMENT

The units of measurement described in the Bill of Quantities are metric units. The following abbreviations are used in the Bill of Quantities.

mm	= millimetre	m ³ _km	= cubic metre_kilometre	Prov sum	= provisional sum
m	= metre	l	= litre	kPa	= kilopascal
km	= kilometre	kl	= kilolitre	MPa	= megapascal
km_pass	= kilometre_pass	kg	= kilogram	MN	= meganewton
m ²	= square metre	t	= ton (1 000 kg)	t-km	= ton-kilometre
m ² _pass	= square metre_pass	No.	= number	hr	= hour
ha	= hectare	%	= percent	dia	= diameter
m ³	= cubic metre	PC sum	= prime cost sum	Sum	= lump sum
kW	= kilowatt	MN-m	= meganewton-metre		

9. CONSISTENCY OF RATES

In order to ensure that payments certified by the Engineer are reasonably consistent with the market value of the work done, and that variations in quantities do not distort the contract valuation, the rates, prices and amounts tendered in the Bill of quantities are required to be in balance.

A tender will be considered out of balance if:

- (i) the combined, extended total tendered for the item:

13.01 The Contractor's general obligations

- (a) Fixed obligations
- (b) Value_r_elated obligations

(c) Time_relat_ed obligations

exceeds a maximum of 15% of the Tender Sum (excluding contingencies, escalation and VAT).

- (ii) the rates, prices or amounts tendered for any other items differ by more than 20 (twenty) percent from either the next highest or next lowest rates, prices or amounts tendered, or else from the latest departmental estimates.

Any such unbalanced tender may be rejected if, after fourteen (14) days of having been given written notice by the Employer to adjust those rates or lump sums which are unreasonable or out of balance, the Tenderer fails to make the necessary satisfactory adjustments. These adjustments in rectification will be such that increases are balanced by decreases, leaving the tender sum unchanged.

C2.2 Bill of Quantities

UPGRADING OF INDALENI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

CONTRACT NO.: - UPGRADING OF INDALENI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
1200	GENERAL REQUIREMENTS AND PROVISIONS				
B12.01	Relocation and protection of existing services				
	(a) Provisional sum for existing services to be relocated and/or protected during construction				
	(i) Water Services	Prov Sum	1	R 40,000.00	
	(iv) Electrical Services	Prov Sum	1	R 20,000.00	
	(iv) Other Services	Prov Sum	1	R 20,000.00	
	(b) Handling cost and profit in respect of subitem B12.01(a)	Prov Sum	1	R 20,000.00	
	Construction of new survey beacons and protection of existing survey beacons:	%	R 80,000.00		
	(a) Provisional sum for new survey beacons to be constructed, or for existing survey beacons to be protected during construction				
B12.02	(b) Handling costs and profit in respect of B12.02(a) above.	Prov Sum	1	R 30,000.00	
	Provision of a Community Liaison Officer				
	(a) Wages, salary, allowances, etc.	%	R 30,000.00		
	(b) Handling cost and profit in respect of sub item B12.03(a) above				
B12.03	Training:				
	(a) Appointment of one local trainee student for the duration of the contract	Prov Sum	1	R 60,000.00	
	(b) Handling cost and profit in respect of sub item B12.05(a) above	%	R 60,000.00		
B12.04	Supervision:				
	(a) Allow for Engineer's Supervision for duration of Construction Costs (Level 2)	Prov Sum	1	R 40,000.00	
	(b) Handling cost and profit in respect of sub item B12.05(a) above	%	R 40,000.00		
B12.05		Prov Sum	1	R 224,000.00	
		%	R 224,000.00		
TOTAL CARRIED FORWARD TO SUMMARY					R -

UPGRADING OF INDALENI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
1300	CONTRACTORS ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
B13.01	The contractor's general obligations				
	(a) Fixed obligations.	Sum	1		
	(b) Value-related obligations	Sum	1		
	(c)Time-related obligations	Month	8		
B13.02	Health and Safety				
	(a) Fixed obligations for the preparation of risk assessments, safe work procedures, the project Health & Safety file, the Health & Safety plan and any other Health & Safety matters that the Contractor deems necessary lump sum (Sum) and checking, the project H & S file, etc.	Sum	1		
	(b) Fixed obligations for completing and checking the Project Health & Safety file and handing it over to the Employer on completion of the Works	Sum	1		
	(c) Time-related obligations for updating and amending the risk assessments, the safe work procedures, the project Health & Safety file and the Health & Safety plan, and for full compliance with all Health & Safety matters during the construction of the Works under the contract	Month	8		
B13.03	Compensation for Environmental Control				
	(a) Environmental Control Officer provided by the Contract	Month	8		
	(b) EMP requirements for the Contract	Month	8		
B13.04	Contract Signboards	No.	1		
TOTAL CARRIED FORWARD TO SUMMARY				R	-

UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
1400	HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL				
14.01	Office and laboratory accommodation:				
	The provision of accommodation as specified, including roof, external and internal walls, windows complete with glazing, doors with locks and fittings, burglar proofing, painting, floors, fencing, the provision of a 220/250 volt electrical installation wiring, switchboards, etc, water and sewerage installation, and stores complete, in accordance with the drawings and specifications, except for items scheduled elsewhere:				
	(a) Offices (interior floor space only)	m ²	20		
	(e) Ablution units	m ²	5		
14.02	Office and laboratory furniture:				
	(a) Chairs	No	10		
	(d) Desks, complete with drawers and locks	No	2		
	(e) Drawing tables	No	1		
	(f) Conference tables (8 seater)	No	1		
B14.03	Office and laboratory fittings, installations and equipment:				
	(a) Items measured by number:				
	(i) 220/250 volt power points including adequate voltage regulators	No	4		
	(ii) 400/231 volt 3-phase power points	No	1		
	(iii) Double 80 watt fluorescent-light fittings complete with ballast and tubes	No	4		
	(vi) Wash-hand basins complete with taps and drains	No	1		
	(x) Fire extinguishers, 9,0 kg, all purpose dry powder type, complete, mounted on wall with brackets	No	1		
	(xi) Air-conditioning units with 2,2 kW minimum capacity, mounted and with own power connection	No	2		
TOTAL CARRIED FORWARD					

UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
TOTAL CARRIED FORWARD					
	(xiv) General-purpose steel cupboards with shelves	No	1		
	(xv) Steel filing cabinets with drawers	No	1		
	(xvi) Refrigerators (300 l min)	No	1		
	(xix) Uninterruptable power supply units	No	1		
	(xxi) Floodlights, complete with poles and 500 Watt minimum globes	No	2		
	(xxii) Rain gauge	No	1		
	(xxiii) Minimum and maximum thermometer	No	1		
	(b) Prime-cost items and items paid for in a lump sum:				
	(v) Provision for apparatus: equivalent to Nashua 1400L or similar	PC	1	R 10,000.00	
	(vi) Handling costs and profit in respect of subsubitem 14.03(b)(v) above (State % and extend as an amount)	%	R 10,000.00		
	(vii) The provision of 400/231 volt 3-phase electrical power installation, including all wiring, switchboards, mains connections, etc.	Lump Sum	1		
	(x) Cost of calls on contract administration business and rental charges	PC	1	R 6,000.00	
	(xi) Handling costs in respect of subitems B14.03(b)(ix) and (x) (State % and extend as an amount)	%	R 6,000.00		
B14.03	(c) Items measured by area:				
	(ix) Whiteboard	m ²	3		
14.08	Services:				
	The provision of water, electricity, low pressure gas, sewerage, septic tanks, sewage and rubbish removal, cleaning services, maintenance and repairs, all as specified in clause 1404, including the construction and maintenance of the access roads, footpath				
	(a) Services at offices and laboratories				
	(i) Fixed costs	lump sum	1		
	(ii) Running costs	Month	8		
TOTAL CARRIED FORWARD TO SUMMARY					R -

UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
1500	ACCOMMODATION OF TRAFFIC				
15.01	Accommodating traffic and maintaining temporary deviations	Km	1.755		
15.03	Temporary traffic control facilities				
	(a) Flagmen	man-day	132		
	(b) Portable STOP and GO-RY signs	No	2		
	(c) Temporary traffic control signs				
	(ii) Size : 900mm (TW, STW, DTG, TGS and TGS Series)	No	12		
	(h) Delineators (TW 401 / TW 402) (800 mm x 200mm)::				
	(ii) Mounted back to back	No	50		
	Movable barricade/road sign combination (TW411)(1800mm x 300mm) and (TR103/RR104/900 dia)	No	4		
	(m) Two-way communication devices	No	2		
15.10	Accommodation of traffic where the road is constructed in half-widths	Km	1.755		
TOTAL CARRIED FORWARD TO SUMMARY					R -

UPGRADING OF INDALENI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
1600	OVERHAUL				
16.02	Overhaul on material hauled in excess of 1.0km (ordinary overhaul)	m³.km	10771.2		
TOTAL CARRIED FORWARD TO SUMMARY					R -

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
1700	CLEARING AND GRUBBING				
17.01	Clearing and Grubbing	ha	1.056		
17.04	Clearing and grubbing at inlets and outlets of hydraulic structures	m²	200		
17.05	Clearing out of hydraulic structures:				
	(a) Pipes with an internal diameter up to and including 750mm	m³	120		
	(b) Pipes with an internal diameter exceeding 750mm	m³	80		
17.07	Mechanical cleaning of hydraulic structures, pipes and portal culverts	hr	100		
TOTAL CARRIED FORWARD TO SUMMARY					R -

UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

ITEM NO	DESCRIPTION	UNIT	QUANTITY	BALANCED	
				RATE	AMOUNT
1800	DAYWORKS				
B18.01	Vehicle, Plant and equipment				
	(a) Lowbed: Transport of plant to or from site	Km	200		
	(b) Motor grader				
	(i) With suitable capacity	hr	9		
	(c) Loader				
	(i) Rubber tyred up to 60 Kw and mass 12 tonne	hr	9		
	(d) TLB excavators				
	(i) Rubber tyred up to 60 Kw and mass 12 tonne	hr	9		
	(e) Self-propelled Roller compactors				
	(i) With static mass between 6 and 8 tonnes	hr	9		
	(f) Walk behind vibrating roller				
	(i) Static mass greater than 800 kg	hr	9		
	(g) Tamping plate compactor				
	(i) Static mass greater than 60 kg	hr	9		
	(h) Trucks				
	(i) Tipper up to 10 m3 capacity	hr	18		
	(iii) Flatbed truck more than 7 tonne capacity	hr	18		
	(i) Water Truck				
	(i) Up to 7000 litres	hr	18		
	(j) Compressor				
	(i) Up to 10 m3/min	hr	18		
B18.02	k) Concrete Mixer				
	(i) Up to 0.3 m3 dry mix capacity	hr	18		
	Personnel				
	a) Artisan (Member of Industrial Council)	hr	9		
	(b) Artisan (Non-member of Industrial Council)	hr	9		
B18.03	c) Foreman	hr	18		
	(d) Labourer - Skilled	hr	18		
	d) Labourer - Unskilled	hr	18		
TOTAL CARRIED FORWARD TO SUMMARY				R	-

UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
2100	DRAINS				
21.03	Excavation for subsoil drainage systems:				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0m up to 1.5m	m ³	102		
	(ii) Exceeding 1.5m and up to 3m	m ³	25		
	(b) Extra over sub-item 21.03 (a) for excavation in hard material, irrespective of depth	m ³	20		
21.04	Impermeable backfilling to subsoil drainage systems	m ³	22.5		
21.06	Natural permeable material in subsoil drainage systems (crushed stone):				
	(b) Crushed stone obtained from commercial sources (19.0mm)	m ³	82.5		
21.07	Natural permeable material in subsoil drainage systems (sand):				
	(b) Sand from commercial sources (fine)	m ³	15		
21.08	Pipes in subsoil drainage systems:				
	(a) 100mm Internal diameter, perforated uPVC pipes and fittings, normal duty, complete with couplings	m	250		
	(b) 150mm Internal diameter, perforated uPVC pipes and fittings, normal duty, complete with couplings	m	20		
	Grade 2 or similar approved synthetic-fibre filter fabric.	m ²	578		
21.12	Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems:				
	(d) Cleaning eyes	No.	1.7		
21.15	Overhaul for material hauled in excess of 1,0 km free-haul (normal overhaul)	m ³ -km	735		
21.17	Test flushing of pipe subsoil drains	m	170		
21.19	Selected backfill material under concrete – lined side drains compacted to 93% of modified AASHTO density	m ³	30		
TOTAL CARRIED FORWARD TO SUMMARY				R	-

UPGRADING OF INDALENI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
2200	PREFABRICATED CULVERTS				
22.01	Excavation:				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	i) 0m up to 1.5m	m³	135		
	ii) Exceeding 1.5m and up to 3.0m	m³	33.8		
	(b) Extra-over sub-item 22.01(a) for excavation in hard material, irrespective of depth	m³	50		
22.02	Backfilling:				
	a) Using excavated material	m³	92.56		
	b) Using imported selected material	m³	35.84		
22.03	Concrete pipe culverts:				
	c) On class C bedding:				
	(i) 450mm dia. Spigot and Socket Class 100D with Rubber Collars	m	20		
	(ii) 600mm dia. Spigot and Socket Class 100D with Rubber Collars	m	150		
22.12	Removing existing concrete:				
	(a) Plain concrete	m³	150		
	(b) Reinforced concrete	m³	360		
	(c) Brickwork	m³	25		
22.17	Manholes, Catchpits, Precast inlet and outlet structures complete:				
	(b) Catchpits As per std Detail SD 0703/A including transitions and 1,2m x 1,2m cover slabs and splay side inlet. Type S1 and D1:				
	(i) 450 diameter pipes	No.	4		
	(ii) 600 diameter pipes	No.	4		
	c) Headwalls (As per Dwg No SD 0406):				
	(ii) 600 diameter pipes	No.	4		
22.25	Overhaul on excavated material carted to spoil, backfill material (but excluding Portland cement in the case of soil cement), existing structures demolished and removed to spoil, and removing and relaying, and removing and stacking existing prefabricated culverts, for haul in excess of the free-haul distance	m³-km	810.4		
22.26	Hand excavation to determine the positions of existing services	m³	60		
TOTAL CARRIED FORWARD TO SUMMARY				R	-

UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
2300	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS				
23.01	Concrete kerb-channel combination				
	(a) 500mm wide combined precast kerb to SABS 927 (Figure 6) and cast in situ channel (Refer to RLM/01/26/27-DET01)	m	1755		
	(b) Precast kerb to SABS 927 (Figure 6)	m	1755		
23.04	Cast in situ concrete channel				
	(a) Concrete Class 15/20	m ³	15		
	(b) Formwork F2 surface finish	m ²	15		
TOTAL CARRIED FORWARD TO SUMMARY				R	-

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
3300	EARTHWORKS AND PAVEMENT LAYERS OF GRAVEL OR CRUSHED STONE				
B33.01	Cut and borrow to fill, including free-haul up to 1,0 km:				
	(a) Material in compacted layer thickness of 200mm and less:				
	(ii) Compacted to 93% of modified AASHTO density	m ³	2805.07		
	(e) Pioneer Layer (300mm Thick of 19mm Stones wrapped with A 2 Geotextile Fabric)	m ³	150		
33.07	Removal of unsuitable material (including free-haul of 0,5 km):				
	(a) In layer thicknesses of 200 mm and less:				
	(i) Stable material.	m ³	80		
	(b) In layer thicknesses exceeding 200mm				
	(i) Stable material.	m ³	80		
33.10	Roadbed preparation and the compaction of Material				
	a) Compaction to 90% of modified AASHTO density	m ³	1316.3		
33.13	Finishing-off cut slopes and fill slopes:				
	(a) Cut Slopes	m ²	800		
	(b) Fill Slopes	m ²	600		
TOTAL CARRIED FORWARD TO SUMMARY				R	-

UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL				
B34.01	Pavement layers constructed from gravel taken from commercial sources, including all haulage: c) Gravel subbase (unstabilized gravel) compacted to: (i) 98% of modified AASHTO density (G5 quality gravel material 150mm thick)	m ³	1316.25		
TOTAL CARRIED FORWARD TO SUMMARY					R -

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
3500	STABILIZATION				
35.01	Chemical stabilization (150mm thick wearing coarse layer) extra over unstabilized compacted layers	m ³	1316.3		
35.02	Chemical stabilizing agent:				
	(a) Ordinary portland cement	t	80		
35.04	Provision and application of water for curing	kl	1500		
TOTAL CARRIED FORWARD TO SUMMARY					R -

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
3600	CRUSHED-STONE BASE				
36.01	Crushed-stone base: a) Constructed from type G2 material obtained from commercial sources including all haulage compacted to 105% Mod. AASHTO density, 150mm thick	m ³	1316		
TOTAL CARRIED FORWARD TO SUMMARY					R -

UPGRADING OF INDALENI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
3800	BREAKING UP EXISTING PAVEMENT LAYERS				
38.01	Excavating and removing existing bituminous material (except milled material):				
	(b) Exceeding 30 mm but not exceeding 60 mm	m³	297.6		
38.04	Excavating and spoiling material from an existing pavement and/or the underlying fill:				
	(a) Non-cemented material	m³	1227.6		
	(c) Cemented Crushed stone	m³	1227.6		
TOTAL CARRIED FORWARD TO SUMMARY					R -

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
4100	PRIME COAT				
41.01	Prime Coat:				
	b) Quick drying RTH 1/4P tar prime	litre	7,200		
TOTAL CARRIED FORWARD TO SUMMARY					R -

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
4200	ASPHALT BASE AND SURFACING				
42.02	Asphalt surfacing				
	(a) 40mm Asphalt Surfacing, medium	m²	8775		
42.04	Tack coat of 30% stable-grade emulsion	l	7200		
B42,22	Asphalt Density Testing				
42.08	100mm cores in asphalt paving	No.	12		
B42.24	Construction of 500mm wide and 100mm thickness Traffic Calming Devices (speed humps)	m	20		
B42.25	Construction of 1200mm wide Sidewalk complete. Rate shall include cut to spoil of 150mm. Preparation and compaction of 150mm Roadbed to 90% Mod AASHO Density. Procuring, Processing and compaction of 150mm commercial source G5 material to 95% Mod AASHTO Density. Application of Prime Coat at 0,9l/m2 rate and 25mm thickness fine grade asphalt.	m	1755		
TOTAL CARRIED FORWARD TO SUMMARY					R -

UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
5200	GABIONS				
52.01	Foundation trench excavation and backfilling:				
	(b) In all other classes of materials	m³	20		
	Surface preparation for bedding the gabions	m²	100		
52.02	Gabions:				
52.03	(a) Galvanized gabion boxes:				
	(i) Length 2m, Width 1m, Depth 1m and nominal diameter of mesh wire 2.7mm, mesh size 80mm x 100mm	m³	20		
	(c) Galvanized gabion mattresses:				
	(ii) Length 2m, Width 2m, depth 0.30mm, mesh size 80 x 100mm nominal diameter of mesh size 2,2mm, and 1m diaphragm spacing.	m³	9		
52.04	Filter fabric:				
	(a) Filter fabric (kaytech grade A4 or similar)	m²	132		
TOTAL CARRIED FORWARD TO SUMMARY					R -

UPGRADING OF INDALENI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
5600	ROAD SIGNS				
56.01	Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class I retro-reflective material, where the sign board is construction from:				
	(a) Aluminium sheet (2,0 mm thick):				
	(i) Area not exceeding 2 m ²	m ²	20		
56.02	Extra over item 56.01 for using:				
	(a) Background of retro-reflective material:				
	(i) Class I	m ²	20		
	(b) Lettering, symbols, numbers, arrows, emblems and borders of retro-reflective material:				
	(i) Class II	m ²	20		
56.03	Road sign supports (overhead road sign structures excluded):				
	(b) Timber (100mm dia. Treated poles)	m	100		
TOTAL CARRIED FORWARD TO SUMMARY				R	-

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
5700	ROAD MARKINGS				
57.02	Retro-reflective road-marking paint				
	(a) White lines (broken or unbroken)				
	(i) 100 mm wide	km	1.76		
	(b) Yellow lines (broken or unbroken)	km	3.52		
	(d) White lettering and symbols	m²	25		
TOTAL CARRIED FORWARD TO SUMMARY					R -

ITEM NO	DESCRIPTION	UNIT	QUANTITY	TENDERED	
				RATE	AMOUNT
8200	QUALITY CONTROL AND WORKMANSHIP				
82.01	(a) Quality control and workmanship	Prov Sum	1	R 100,000.00	
	(b) Handling cost and profit in respect of sub item 82,01 (a) above	%	R 100,000.00		
TOTAL CARRIED FORWARD TO SUMMARY					

CONTRACT NO.: XXXXX - UPGRADING OF INDALENI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2)		
SUMMARY OF SECTIONS		
SECTION	DESCRIPTION	BILLED TOTAL
1200	GENERAL REQUIREMENTS AND PROVISIONS	
1300	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS	
1400	HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S PERSONNEL	
1500	ACCOMODATION OF TRAFFIC	
1600	OVERHAUL	
1700	CLEARING AND GRUBBING	
1800	DAYWORKS	
2100	DRAINS	
2200	PREFABRICATED CULVERTS	
2300	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS	
3300	MASS EARTHWORKS	
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL	
3500	STABILIZATION	
3600	CRUSHED-STONE BASE	
3800	BREAKING UP EXISTING PAVEMENT LAYERS	
4100	PRIME COAT	
4200	ASPHALT BASE AND SURFACING	
5200	GABIONS	
5600	ROAD SIGNS	
5700	ROAD MARKINGS	
8200	QUALITY CONTROL AND WORKMANSHIP	
SUB-TOTAL A		
ADD: 10% CONTINGENCIES		
SUB-TOTAL B		
VAT AT 15%		
TOTAL INCLUDING VAT		

C3.1 Scope of Works

C3.1. DESCRIPTION OF WORKS

The following description is a broad outline of the works and does not limit the work to be executed by the Contractor in terms of the contract. The quantities of some of the major items indicated in this section are indicative, not absolute, and are provided to define in general terms the overall scope of the project.

Approximate quantities of each type of work to be carried out in accordance with the contract documents are listed in the Schedule of Quantities in Section C2.2.

The site shall not only comprise the proclaimed road reserve but shall be extended in the broader sense to take account of all areas occupied by the Contractor, be it deliberate or unintentional, in the execution of the contract. The site includes all the land within the proclaimed limits of the road reserve along the extent of the works, borrow pits and quarry sites, stockpile areas, locations set aside for construction and supervision accommodation and any other location required for the execution of the Works.

Incidental intrusion into private or tribal property outside the road reserve shall not be permitted without the owner's written authority. Any such agreement reached with a private or tribal landowner (occupier) shall include the provision that any material or equipment on that site shall remain the exclusive property of the Employer in terms of the contract.

C3.1.1 Employer's Objectives

The proposed project seeks to rehabilitate and upgrade the deteriorated internal road network in indaleni, Ward 2, in response to persistent community concerns and prioritisation under the Municipal Infrastructure Grant (MIG) programme. The initiative aims to enhance transport infrastructure, improve stormwater management, and ensure safer, more reliable mobility, thereby delivering multiple socio-economic benefits including improved access to essential services, enhanced public health, reduced transport costs, and extended vehicle lifespan

These roads were identified and prioritized by the relevant executives from the Richmond Local Municipality Technical Department. They serve as major collector roads within the Ward 02 .

C3.1.2 Extent of the Works

The main work items to be undertaken involves the following:

The work that is to be carried out under the contract is as provided for in the Schedule of Quantities, Drawings and project particular specifications. 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. Variation introduced in this manner will be dealt with in accordance with the General Conditions of Contract 2015.

The work to be undertaken by the Contractor includes, but is not limited to, the followin

- General:
The following general items will be included in the contract:
- The establishment on site of the Contractor's campsite;
- Provision of offices for the Engineer's site personnel.
- The supply of plant, labour, tools, equipment and materials necessary to complete the work;
- Setting out of the works;
- Accommodation of traffic and maintaining temporary deviations;

- Clearing and grubbing of the site;
- Concrete kerbing and channeling and concrete lining for open drains
- Finishing off of the site on completion of the works.

Road 1 : Silahl Access road in ward 02 is 1755m in Length and ranges for 5 to 6m in Width

Extent of scope:

- Breaking of Existing Tar
- Box Cutting
- Compaction o Roadbed to 90 % of modified AASHTO density
- G5 Pavement layer constructed taken from commercial sources, Compacted to 98% of modified AASHTO density, 150 mm thick
- G2 Crushed-Stone Base from commercial source ,Compacted to 98% of modified AASHTO density, 150 mm thick
- Application of Prime Coat "Colprime E" or similar
- Asphalt Surfacing - Continuously graded asphalt, medium grade asphalt, nominal thickness 30 mm
- Construction of 1000m x 100mm Thick 25Mpa Concrete Drain
- Road Signage and Road Marking : Lane Divider
- Landscaping

C3.1.3 Location of the Works

Start New Asphalt internal Roads

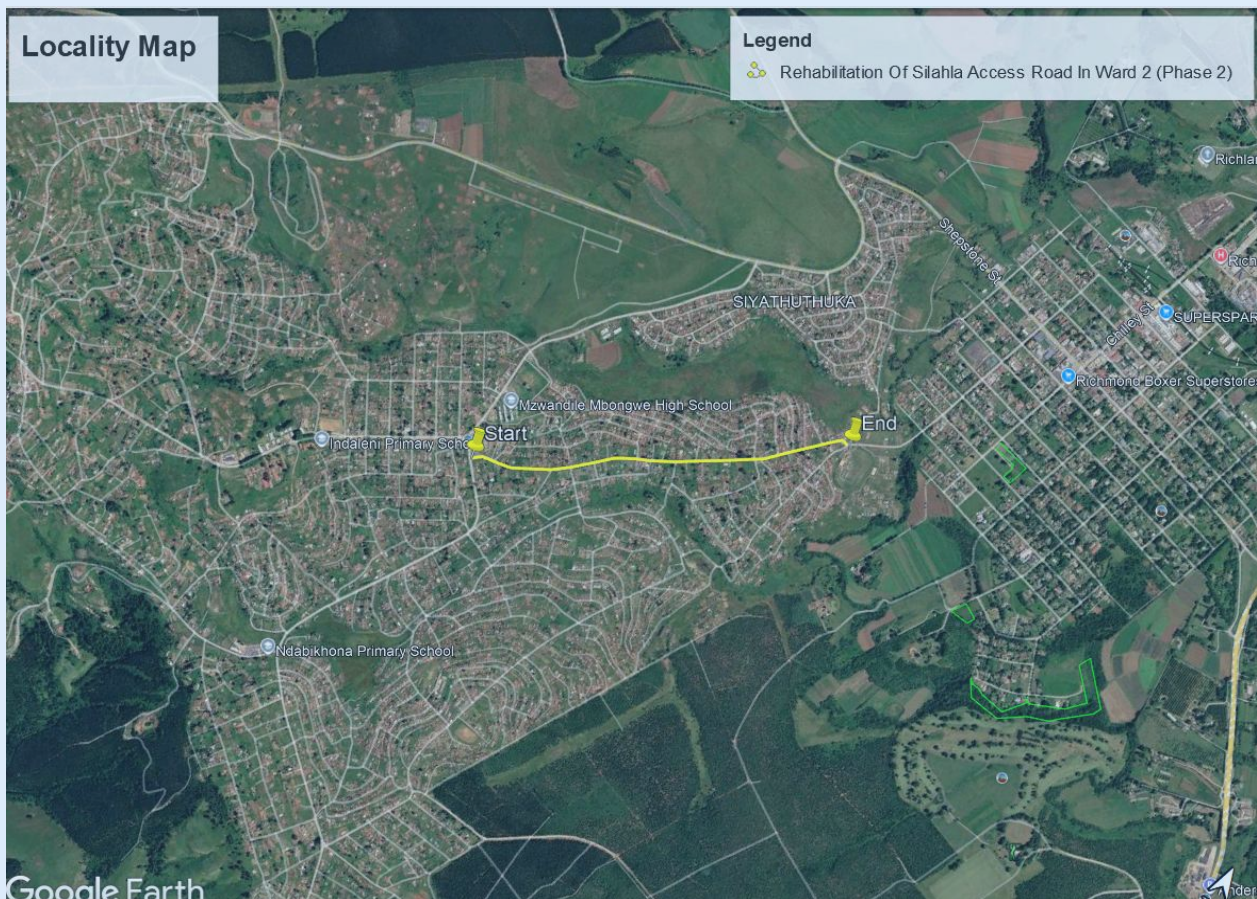
Latitude: 29°53'12.09"S

Longitude: 30°14'54.25"E

End New Asphalt internal Roads

Latitude: 29°52'42.99"S

Longitude: 30°15'47.96"E



C3.1.4 Temporary Works

The contractor will have to provide temporary road deviations in order to control the traffic during construction. These deviations will have to be removed and made good on completion of the works.

C3.1.5 General Information

C3.1.5.1 Accommodation of Traffic

The Contractor shall be required to accommodate traffic on the existing road near the site in order to ensure the safe movement of vehicles and pedestrians.

C3.1.5.2 Services

There is an existing water pipeline and Eskom services crossing alongside the start of the road. The contractor shall do a reconnaissance of the route for possible services that may be affected.

Service Owner	Service Affected	Relocation
Eskom	Poles and Overhead lines	Relocate to new Road Reserve
Municipality	Water pipelines	Relocate to new Road Reserve

C3.1.5.3 Construction Materials

Gravel materials required for construction work are not available on the site and shall be obtained from commercial sources.

- Testing of materials

The Engineer will source the nearest commercial laboratory to carry out acceptance control testing of the materials. A prime cost sum has been allowed in Section 8200 of the Schedule of Quantities for any other acceptance control testing laboratory work that may have to be carried out by the Engineer using commercial laboratory facilities.

C3.1.5.4 Drawings

All drawings necessary to complete the works are bound in Volume 3.4: Contract Drawings. The drawings indicating the extent of the works along the road are for tendering purpose only. The final extent of the work will be as instructed by the engineer.

Any information in the possession of the contractor that is required by the resident engineer to complete his as-built drawings shall be supplied to the resident engineer before a certificate of completion will be issued.

Only figured dimensions shall be used and drawings shall not be scaled unless so instructed by the engineer. The Engineer will supply any figured dimensions that may have been omitted from the drawings.

The levels given on the structural drawings are subject to confirmation on site, and the contractor shall submit all levels to the engineer for confirmation before commencing any structural work. The contractor shall check all clearances given on the drawings and shall inform the engineer of any discrepancies.

C3.1.5.5 Power Supply and other Services

The contractor shall make his own arrangements regarding the supply of electrical power and all other services. No direct payment will be made for the provision of electrical and other services. The cost thereof shall be deemed to be included in the rates and amounts tendered for the various items of work for which these services are required.

C3.1.5.6 Water for Construction Purposes

The contractor shall make his own arrangements regarding a suitable supply of water for the project and he must make adequate provision in his tender for all negotiations and procurement of water for construction activities and all related costs will be deemed to be included in his tendered rates.

- C3.1.5.7 Construction in Confined Areas

It may be necessary for the Contractor to work within confined areas. No additional payment will be made for work done in restricted areas, except in the case of structures as described in Subclause 6108(d) of the Standard Specifications. In certain places the width of the fill material and pavement layers may decrease to zero and the working space may be confined. The method of construction in these confined areas largely depends on the Contractor's constructional plant.

However, the Contractor must note that measurement and payment will be in accordance with the specified cross-sections and dimensions only. This is irrespective of the method used for achieving these cross-sections and dimensions. The tendered rates and amounts shall include full compensation for all special equipment and construction methods and for all difficulties encountered when working in confined areas and narrow widths and at or around obstructions. No extra payment will be made nor will any claim for additional payment be considered in such cases.

C3.1.5.8 Contractor's Camp Site

Possible locations for a campsite shall be pointed out at the clarification meeting.

The Contractor shall make his own arrangements for the provision of his campsite and housing for construction personnel. The chosen site shall be subject to the approval of the Engineer, the local authorities and the Community

Liaison Officer (CLO) associated with the project.

The standard of the Contractor's camp, offices, accommodation, ablution, and other facilities must comply with the requirements of all local authority, environmental and industrial regulations concerned. In establishing and maintaining his campsite, due cognisance is to be taken of the requirements of clause B1233 of these Project Specifications.

The Contractor is to fully familiarise himself with all local by-laws and Government regulations for the employment, transport and accommodation of labour on site.

The Contractor shall particularly note that there is a low risk of theft, vandalism and damage to property in this area but adequate security will be required for all plant, establishment, temporary works and partially completed works. The Contractor shall be responsible for providing security for all plant, establishment, temporary works and partially completed works. No separate payment shall be made for the provision of such security since full compensation for these costs shall be deemed to be included in the rates for time-related obligations.

C3.1.5.9 Additional requirements for construction activities

The travelling public shall have the right of way on public roads, and the Contractor shall make use of approved methods to control the movement of his equipment and vehicles so as not to constitute a hazard on the road.

C3.1.5.10 Security

The contractor shall be responsible for the security of his personnel and constructional plant on and around the site of the works and for the security of his camp. The employer shall not consider any claims in this regard. The Contractor shall also be responsible for the security of the areas around the Engineer's offices.

C3.1.5.11 Programme of the Works

In addition to any other restrictions accommodated by the Contractor in compiling the construction programme, the following constraints shall be taken into account in the preparation thereof:

- (1) Working days lost due to abnormal rainfall shall be treated as set out in clause B1215.
- (2) Allowance shall be made for special non-working days (refer to the contract data in section C1.2.2).

-
- (3) Construction activities must comply with all the specified environmental requirements including clause B1233 and the requirements of Part C: Environmental Management Specification contained in section C3.3 Particular Specifications.
 - (4) Construction activities must comply with all the specified health and safety obligations including the requirements of Part E: OHSA 1993 Health and Safety Specification contained in section C3.3 Particular Specifications.
 - (5) Throughout the contract period traffic must be accommodated through the site and must not be prevented from doing so by the contractor's activities at the box culvert and pedestrian bridge.
 - (6) Strict control of access to and from local public roads shall be required when construction vehicles, plant or equipment leave or enter the site.
 - (7) Low level crossings follow a natural stream drainage course and are founded below the water table. Access must be provided for excavations within the stream bed and along the stream banks below the water table. This will require the construction and maintenance of temporary stream diversion works and the continuous shoring and drainage of all excavations.
 - (8) Rainfall in the upstream catchment of the stream will cause the water level at low level crossing sites to rise, thereby posing a threat to all the temporary works and partially completed permanent works. Such works must therefore be adequately drained, shored and protected and any stream diversions must maximize the available channel opening. The Contractor's programme of work shall take due cognisance of these risks by limiting the duration of the exposure of the various construction elements to such natural phenomena.
 - (9) The concrete mix designs and water quality test results must be submitted to the Engineer for approval before concrete work for the structures commences. In the case of the low level crossings, the Contractor shall therefore arrange the necessary laboratory testing immediately after commencing the contract so as not to delay the construction progress. The Contractor shall note that the necessary permission must be obtained from the Department of Water Affairs for the abstraction of water from streams and rivers.

C3.2. PROCUREMENT

C3.2.1 Preferential Procurement Procedures

C3.2.1.1 Requirements

State requirements appropriate to the methodology and procedures which are to be followed. (See Annex A of SANS 10396. Make reference to Preference Schedules, if any).

- **C3.2.1.2 Resource Standard Pertaining to Targeted Procurement**

State the number, title, part and edition of SANS 1914 Targeted Procurement applicable to the contract and all data, variations and definitions required - e.g. definitions of targeted groups, weighting factors etc. (Refer to SANS 10396 for specific guidance)

- ☐ SANS 1914-1:2002 Targeted Construction Procurement Part 1 – Participation of Targeted Enterprises
- ☐ SANS 1914-2:2002 Targeted Construction Procurement Part 1 – Participation of Targeted Partners in Joint Ventures
- ☐ SANS 1914-3:2002 Targeted Construction Procurement Part 1 – Participation of Targeted Enterprises and Targeted Partners in Joint Ventures
- ☐ SANS 1914-4:2002 Targeted Construction Procurement Part 1 – Participation of Targeted Enterprises and Targeted Labour (local resources)
- ☐ SANS 1914-5:2002 Targeted Construction Procurement Part 1 – Participation of Targeted Labour
- ☐ SANS 1914-6:2002 Targeted Construction Procurement Part 1 – Participation of Targeted Enterprises in Concession Contracts

C3.2.2 Subcontracting

- **C3.2.2.1 Scope of Mandatory Subcontract Works**

There is a mandatory subcontract work in this contract. Contractors are however encouraged to maximise the usage of local labour and suppliers.

- **C3.2.2.2 Preferred Subcontractors / Suppliers**

Contractors are encouraged to use subcontractors and suppliers that are registered on Richmond Municipality database.

C3.2.2.3 Subcontracting Procedures

Any work to be subcontracted must be indicated in the returnable schedules. Should such work only be identified on site, request to subcontract must be sent to the Engineer for approval.

C3.2.3 Construction

C3.2.3.1 Works Specifications

C3.2.3.2 Applicable SANS 2001 Standards

COLTO Standard Specification for Road and Bridge Works for State Authorities 1998 (Green Book) for Civil Engineering Construction.

C3.2.3.2.1 Applicable Technical Recommendations For Highways (TRH)

- ☐ TRH 14 Guidelines for Road Construction Materials
- ☐ TRH 20 The Structural Design, Construction and Maintenance of Unpaved Roads

C3.2.3.2.2 Applicable Technical Methods For Highways (TMH)

- ☐ TMH 1 Standard Methods for Road Construction Materials
- ☐ TMH 5 Sampling Methods for Road Construction Materials
- ☐ TMH 6 Special Methods for Testing Roads
- ☐ TMH 10 Manual for the Completion of As-Built Materials Data Sheets
- ☐ TMH 11 Standard Survey Methods

C3.2.3.3 Particular Specifications

Refer to Annex C3.4.

C3.2.3.4 Certification by Recognised Bodies

Certified by the CIDB

C3.2.4 Plant and Materials

C3.2.4.1 Plant and Materials Supplied by the Employer

None

C3.2.4.2 Materials, Samples and Shop Drawings

All materials are to be tested by a commercial laboratory as directed by the Engineer. Construction needs to be carried out according to the Construction Drawings.

C3.2.5 Construction Equipment

C3.2.5.1 Requirements for Equipment

The Contractor is required to use plant and equipment that is sufficient for the construction of roads and the ancillary works.

C3.2.5.2 Equipment Provided by the Employer

None

C3.2.6 Existing Services

C3.2.6.1 Known Services

All known services are shown on the Construction Drawings. The onus still lies with the main contractor to ensure that no services are damaged during the construction phase.

C3.2.6.2 Treatment of Existing Services

It is not envisaged that any of the existing services requires temporary or permanent relocation. Special care should be taken working underneath overhead lines.

C3.2.6.3 Use of Detection Equipment for the Location of Underground Services

None

C3.2.6.4 Damage To Services

It is the responsibility of the contractor to ensure that no services are damaged during the construction process. In case the known services indicated on the drawings are damaged, the main contractor shall be responsible for the repair of the services to the original state before it was damaged, as well as all cost associated with the damaged service.

C3.2.7 Site Establishment

C3.2.7.1 Services and Facilities Provided by the Employer

None

C3.2.7.2 Facilities Provided by the Contractor

The onus lies with the main contractor to find a suitable camp site, approved by the Engineer. The main contractor is also responsible for the rehabilitation of the area to its original state on completion of the works.

C3.2.7.3 Storage And Laboratory Facilities

No requirements are specified. A commercial laboratory will be utilised.

C3.2.7.4 Other Facilities and Services

No requirements are specified.

C3.2.7.5 Vehicles and Equipment

No requirements are specified.

C3.2.7.6 Advertising Rights

It is the main contractor's responsibility that no suppliers advertise on site. Any advertisement from suppliers shall be removed at the cost of the main contractor.

C3.2.7.7 Notice Boards

The main contractor is allowed to place a Notice board on site. The maximum allowed size of this board should be 2 x 2m

C3.2.8 Site Usage

The contractors are not allowed to work outside the allowed working hours, as agreed with the Engineer. The disturbance to the residence should be kept at a minimum.

C3.2.9 Permits and Way Leaves

No requirements are specified.

C3.2.10 Water for Construction Purposes

The onus lies with the main contractor to source and pay for construction water. The quality of the construction water should be as specified is COLTO.

C3.2.11 Survey Control and Setting Out of the Works

The setting out bench marks is provided by the Employer. It is the contractor's responsibility to ensure that the setting out bench marks is correct and to use these bench marks for setting out.

C3.3. ANNEXES

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C3.3.2 Health and Safety Specifications	125

C3.3.1 Variations and Additions to Requirements of Standardised COLTO

Notes to tenderer:

1. In certain clauses the Standard Specifications allow a choice to be specified in the project specifications between alternative materials or methods of construction and for additional requirements to be specified to suit a particular contract. Details of such alternatives or additional requirements applicable to this contract are contained in this part of the project specifications. It also contains some additional specifications required for this particular contract.
2. The number of each clause and each payment item in this part of the project specifications consists of the prefix B followed by a number corresponding to the number of the relevant clause or payment item in the standard specifications. The number of a new clause or a new payment item which does not form part of a clause or a payment item in the standard specifications and which is included here, is also prefixed by B followed by a new number. The new numbers follow on the last clause or item number used in the relevant section of the standard specifications.
3. The tenderer shall note that the standard COLTO specification is based on the COLTO General Conditions of Contract. References to specific COLTO General Conditions of Contract clauses will need to be exchanged for the equivalent clause in the General Conditions of Contract as amended by the Particular Conditions of Contract to be found in Part C1 of this document. The employer assumes no responsibility for the contractor's interpretation of which are the correct relevant clauses.

COLTO SERIES 1000:

GENERAL B1100:

DEFINITIONS AND TERMS

B1155 WORK IN RESTRICTED AREAS*Add the following:*

“Any omission of pay items from the pricing schedule with regard to additional or extra over payment for work in restricted areas should be regarded as deliberate and any additional cost incurred shall be included in the bulk rate.(Refer also to clause B1209(g))”

SECTION B1200: GENERAL REQUIREMENTS AND

PROVISIONS B1202 SERVICES

Add the following first paragraph:

“All reference to services in this clause shall mean utility services.”

In the final paragraph delete the second and third sentences starting with ‘Should’ and replace with the following:

“Table B1202/1 lists all known services on the site. Those requiring removal, realignment or temporary replacement are indicated with an asterisk. However, before any work can commence the contractor shall verify the actual position of each station and bring to the attention of the Engineer any service that is not recorded. As the contractor is not authorised to remove or replace these facilities he shall:

- i) Give preliminary notice, in writing to the relevant service provider, that the services on the site will require removal or protection prior to works being carried out in the vicinity of each station. The contractor shall advise the service provider of
 - a) The number of services, their locations and station ID numbers and
 - b) The proposed dates when work will commence in the vicinity of each service.
- ii) In addition to the above preliminary notice, give the service provider 14 days written notice of the intention to commence work in the vicinity of each facility.
- iii) Upon completion of the work in the vicinity of each facility, the contractor shall notify the service provider, in writing, that work is complete and the service may be reinstated.

Any delay resulting from the removal/replacement of a service shall not be the subject of a potential claim, unless the contractor can demonstrate that every effort has been made to timeously request and/or apply for the removal/replacement of the said service. In addition, the contractor shall be deemed to have employed the services of the service provider as a subcontractor for purposes of removing and/or replacing the relevant service.

- TABLE B1202/1: LIST OF KNOWN SERVICES

SV	SERVICE TYPE	IDENTITY	Service Level from Survey (m)	Final Road Level (m)	Height Above Final Road Level (m)	ACTION REQUIRED
	No known services					

Any cost of repairs, replacement and/or installation of the stations and equipment resulting from the contractor's negligence or unauthorised action shall be to the contractor's account."

B1204 PROGRAMME OF WORK

a) General requirements

Add the following as a continuation of the first paragraph:

"In drawing up the programme the contractor shall make allowance for the following:

- i) All special non-working days defined in C1.2.1 and C1.2.2 in the Contract Data.
- ii) The expected delays defined in B1215: Extension of time resulting from inclement weather.
- iii) The following embargo hours and days: The Contractor shall be required to programme the works such that the entire length of this section of the road shall be open to two way traffic without a step in level during the annual December / January shutdown period. The aforementioned embargo will also apply the Thursday immediately preceding Good Friday.

This initial indicative programme shall realistically account for the forecast cash flow within the defined contract period, and as provided on Form 7: Schedule of Estimated Monthly Expenditure. If an alternative contract period is offered, the contractor shall submit a separate programme with the alternative tender.

clause: "b) Programme of work for construction work

Insert the following after the first sentence of the second paragraph:

"The programme shall include the following details:

- iv) A work breakdown structure that identifies all major activities.
- v) Scheduled start and end dates for each activity.
- vi) Linkages between activities that clearly identify sequence, floats and critical path.
- vii) Intended working hours and resource allocations (plant and labour).
- viii) Monthly cash flow projections.
- ix) Key dates in respect of information required or due delivery."

Add the following sub-clause:

"c) Programme revisions

The programme will be reviewed at the monthly site meetings at which the contractor shall provide sufficient detail that will allow the comparison of completed work per activity against the original approved programme. The contractor shall indicate what resources and programme changes he intends to implement in order to remedy any activity that has fallen behind. The Engineer may demand from the contractor a major revision of the programme. Such a revision shall be submitted for approval within fourteen days of the demand."

B1205 WORKMANSHIP AND QUALITY CONTROL

Add the following after the title:

"The contractor shall implement a quality assurance system in accordance with ISO 9002 and appoint a quality manager who shall ensure that members of the contractor's staff comply with the requirements of the quality system. The quality system and the methods used to implement it shall be described in a quality plan produced by the contractor.

The quality manager shall be resident on site full time. No construction activities shall take place on site before the Engineer approves the quality plan"

Delete the second, third, fourth and fifth paragraphs and replace with the following:

"The contractor shall submit the quality assurance system he proposes using to the Engineer, for his approval, within two weeks of the site handover. Once accepted by the Engineer the contractor shall not deviate from it unless written notification of proposed changes have similarly been submitted and approved. The system shall record the lines and levels of responsibility and indicate the method by which testing procedures will be conducted."

As the Contractor's process control will be used for acceptance purposes, the minimum intensity and type of the control testing shall be as stipulated in Section 8200 (scheme 1), Table 8206/3 as amended herein. In **addition** to the sampling and testing specified in Section 8200, the following minimum sampling and testing shall be carried out:

Table B1205 – MINIMUM SAMPLING AND TESTING FREQUENCIES

COMPONENT	PROPERTY	MINIMUM SAMPLES AND TESTS PER LOT
Roadbed preparation and Fill layers	Grading & Indicator	4
	Mod AASHTO maximum density determination ¹	4
	CBR	4
Selected Layers	Grading & Indicator	4
	Relative Compaction (Nuclear density)* ²	6
	Mod AASHTO maximum density determination* ¹	4
Sub-base Layer	Grading & Indicator	4
	Relative Compaction (Nuclear density)* ²	6
	Mod AASHTO maximum density determination* ¹	4
Gravel wearing course	Grading & Indicator	4
	Relative Compaction (Nuclear density)* ²	6
	Mod AASHTO maximum density determination* ¹	4
Concrete for structures	Cement content	1
	Slump test	1
	Cube strength	1

*¹ The determination of Mod AASHTO maximum density can be relaxed to 1 determination per 4 density tests if, in the opinion of the Engineer, the material is found to be acceptably uniform in terms of MDD and OMC.

*² The minimum frequency is six tests in total, not six tests in addition to the four tests as Specified in Table 8206/3."

B1206 THE SETTING OUT OF WORK AND PROTECTION OF BEACONS

Replace “clause 14” in the first paragraph with “clause 4.7”

Add the following at the end of the fourth paragraph:

“Road markings are also elements of the road that require proper setting out. The contractor shall prove to the Engineer that critical reference points have been satisfactorily recorded for later reinstallation before any work commences that will obliterate the existing markings.”

Delete “and of clause 14 of the general conditions of contract” in the sixth paragraph. Add the following paragraph:

“The contractor shall take care that property beacons, trigonometrical survey beacons or setting-out beacons are not displaced or destroyed without the consent of the Engineer. Property beacons and trigonometrical survey beacons that have been displaced or destroyed shall be replaced by a registered land surveyor, who shall certify such replacement.

The cost of replacing all beacons displaced or destroyed during the course of the contract without the consent of the Engineer shall be the contractor’s responsibility and included in the tender rates.”

Add the following paragraphs:

“Prior to starting construction activities, the Contractor shall satisfy himself as to the accuracy of the Benchmarks placed by the Engineer. If he finds the Benchmarks to be correct he shall submit a signed certificate to the Engineer confirming this. Any suspected fault or discrepancy shall be immediately communicated to the Engineer in writing. Five (5) working days shall then be allowed for the Engineer to investigate and correct the matter and no claim for delays or any other costs will be permitted provided that the Engineer responds with a written solution within the said period of five working days.

Before any construction work commences the Contractor shall undertake his own digital terrain model (DTM) tachometric survey of the site for comparison with the Engineer’s survey. The survey must be undertaken on existing ground lines i.e. prior to undertaking any clearing and grubbing or top soil removal.

The survey data is to be submitted to the Engineer and the resulting final ground model, culminating from the comparison of both surveys, shall then be agreed in writing between the Contractor and the Engineer within seven (7) days of the submission date. This final ground model shall be used for the purposes of construction and the computation of quantities.

Should the Contractor fail to undertake the DTM survey as described above, the Engineer’s shall be entitled to base all measurement on his own ground model for the computation of quantities.”

B1207NOTICES, SIGNS AND ADVERTISEMENTS

Remove this part of the sentence from the first paragraph

“... or as approved advertisements for the contractor’s establishment.”

Delete the third paragraph and replace with the following:

"All signboards erected in accordance with the drawings shall be removed at the same time as the disestablishment of the contractor's camp. Payment under subitem 13.01 for the final instalment of 15% of the tendered lump sum shall not be made unless all the advertisements, notices and temporary signs have been removed. A typical signboard layout is shown in the Tender Drawings"

B1209 PAYMENT

(b) **Rates to be inclusive**

Add the following to the first paragraph:

"VAT shall be excluded from the rates." "(g) **Work in confined areas**

Except where provided for in the specification and the Pricing Schedule no extra payment shall be made nor shall any claim for additional payment be considered for construction in confined areas. The omission of standard pay items from the schedule of quantities shall be taken to be deliberate and any additional costs incurred shall be included in the bulk rate."

B1210 CERTIFICATE OF PRACTICAL COMPLETION OF THE WORKS

Add the following paragraphs after item (h):

"Notwithstanding that there might be natural or programmed sections of the works that will result in them being completed in their entirety before other sections, no consideration shall be given to the issuing of practical completion certificates for portions of the works. The use of any completed roadway or portions of the work, whether for unhindered use by the public or for accommodation of traffic while other portions are being constructed, shall not constitute use or occupation by the Employer.

In addition to the listed specified items of work and regardless of the degree of beneficial occupation by the Employer, the works shall be considered for practical completion only if the following criteria also have been met:

- (i) The estimated cost to complete the outstanding work is less than 2% of the tendered value of work plus the cost of any variation or extra work orders, but excluding VAT.
- (ii) The written list of outstanding items of work can be completed within 28 days of the list having been accepted in writing by the contractor.
- (iii) Any information in the contractor's possession, which is required by the Engineer and has been requested in writing, has been supplied."

The contents of this clause 1210 of the COLTO Standard Specifications, together with the above amendment, shall apply equally to the issue of a Certificate of Completion.

B1214 CONTRACTOR'S ACTIVITIES IN RESPECT OF PROPERTY OUTSIDE THE ROAD
RESERVE AND OF SERVICES MOVED, DAMAGED OR ALTERED

Under sub-clause (e) replace the opening paragraph with:

“Should the contractor use land not provided by the Employer for the purpose of his own establishment, Engineer’s offices or storing of equipment or materials required for construction or disposal, it shall be subject to the following:”

and add the following sub-sub-clauses:

“(vi) That lease agreements are concluded with the owner or owners of such land for the full period that such areas are required. The leases shall provide for possible extensions to match the duration of the contract. The lease agreements shall also provide for the contract being terminated by contractor’s default or liquidation and the resulting possibility for them to be taken over by a succeeding contractor.

(vii) That copies of lease agreements shall be submitted to the Engineer prior to signature by the signing parties, and copies lodged with the Engineer after signing. Notwithstanding the Engineer’s approval of the conditions of a lease the contractor shall be solely responsible for adhesion to the terms of the agreements.

(viii) Adherence to the principles of the environmental management plan and legal obligations”.

B1215 EXTENSION OF TIME RESULTING FROM INCLEMENT WEATHER

Change the existing heading of clause 1215 to read as above and wherever the expression ‘abnormal rainfall’ or ‘rainy weather’ is encountered replace it with ‘inclement weather’.

In the 1st line of the 1st paragraph change ‘clause 45’ to read ‘sub-clause 8.4’

Make the following changes to Method (ii) (Critical-path method):

In line six of the second paragraph delete ‘five-day working week’ and replace with ‘23-day working month’,

and:

Add the following final paragraphs:

“Extension of time resulting from rainfall or other forms of inclement weather shall be calculated according to

the requirements of Method (ii) (Critical-path method). The 'n' value of working days, as specified in this clause as being expected delays for which the contractor must make allowance in his programme, have been indicated in Clause 5.12.22 of the Contract Data.

The number of rain-related delays is the average number of days on which (10mm) of rain or more has been measured by the weather station at Richards Bay over the last four (4) years.

Other inclement weather delays for which the contractor must make allowance in his programme have been derived from previous experience of wind and temperature influence on similar construction in the area of the site. Actual extensions of time due to inclement weather shall be agreed between the Engineer's and contractor's representatives on the site. The agreed whole days or parts thereof shall be recorded at the monthly site meetings. Adjustment to the contract period shall only be made at the end of the contract when the contractor may submit its claim for the agreed extension due as well as any additional payment resulting from the delay. Extension caused by inclement weather delays will only accrue once the agreed cumulative delays exceed 58 days.

If approved extensions of time extend the completion date beyond the start of the contractor's holiday in December, the holiday period shall not be considered as working days. Any remaining extension of time at this date shall be calculated from the first statutory working day in January the following year, provided that the contractor has shown in his programme that he intends to close during the traditional Christmas/New Year break."

B1219 WATER

Add the following:

“Water for use on site other than municipal, shall be subject to the required permit from DWAF. This shall include such extraction points as rivers, dams, streams, and boreholes”.

• **TABLE B1219: WATER CLASSIFICATION FOR CONSTRUCTION TESTING**

		Water Quality Classification Code						
		H0	H1	H2	H3	H4	H5	
Property	Unit	Pure water (AR)	Clean water (Rain)	Treated water (Municipal)	Silty (muddy) water with low salt content	Highly mineralised chloride sulphate water (brackish)	Waste brack, sewage, marsh, sea, etc water	Method
PH*	-	7.0	5.7 – 7.9	4.5 – 6.5	4.5 – 8.5	9.0	-	SABS SM113 SM 11 - 1990
Dissolved solids*	ppm	0	1000	1500	3000	-	-	SABS 213 SM213 - 1990
Total hardness*	-	None	None	Temporary	Temporary	Permanent	-	SABS 215 SM 215 – 1971
Suspended matter	ppm	0	2000	2000	5000	-	-	SABS 1049 SM 1049 – 1990
Electrical conductivity	mS/m	0	200	200	500	-	-	SABS 1057 SM 1057 – 1982
Sulphates (SO ₄)	ppm	0	200	300	500	1000	-	SABS 212 SM 212 –

		Water Quality Classification Code						
		H0	H1	H2	H3	H4	H5	
								1971
Chloride s (Cl)	p p m	0	500	1000	3000	5000	-	SABS 202 SM 202 – 1983
Alkali Carbonat e s (CO3) & Bicarbon at es (HCO3)	p p m	0	500	1000	1000	2000	-	SABS 241 – 1999
Sugar	-	Negati v e	Neg a tive	Negative	Negati v e	Negati v e	-	SABS 833
Quality of water required		Untrea ted layer works	a	a	a	a	Investi g ate the effect on the quality of th e materi al	
		Chemi c ally treate d layer works	a	a	a	Investi g ate the effect on the quality of th e materi al		
		Concr et e mass	a	a	a	Investi g ate the effect on the quality of th e materi al		
		Concre t e prestre s sed	a	a	References: 1. Concrete Technology – Dr S Fulton (1989) 2. Materials Manual (PAWC)			
		Slurry & emulsi o n	a	a				
		Soil/gr a vel tests	a	a				

	Chemical control tests	a	a	
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- A primary property. The quality of the water is that quality where all three of the primary properties are within the limits.
- The tabulated single values are maximum value except in the case of the pH value for pure water, which must be 7.0

B1229 SANS CEMENT SPECIFICATIONS

Add the following to this clause:

“Where reference is made in this specification or the standard specifications to the cement specifications, e.g. SANS 471: Portland cement and rapid hardening Portland cement, it shall be replaced with the new specification:

SANS 50197-1: 2000: Cement compositions, specifications and conformity criteria Part 1: Common cements.

B1230 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 materials are specified under trade names tenders must be based on these materials. Alternative materials may be submitted as alternative tenders and the Engineer may, after receipt of tenders, approve the use of equivalent materials. The tender must be clearly marked as an alternative tender, failing which the tender may be rejected.

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 within the road reserve, or in borrow areas 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.

Materials to be included in the works shall not be damaged in any way and, should they be 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.

B1231 MEASUREMENT AND PAYMENT

Add the following new payment items

Item	Unit
B12.01	Relocation and protection of existing services
(a)	Provisional sum for existing services to be relocated and / or protected during construction.....provisional sum
(b)	Handling cost and profit in respect of subitem.....percentage (%)

B12.01(a) above

Expenditure under this item shall be made in accordance with Clause 6.6 of the General Conditions of Contract 2015.

The tendered percentage is a percentage of the amount of expenditure approved by the Engineer under subitem B12.01(a), and shall include full compensation for the handling costs of the Contractor and the profit in connection with the relocation and / or protection of the relevant services.

Item	Unit
B12.02	Construction of new survey beacons and protection of existing survey beacons
(a)	Provisional sum for new survey beacons to be constructed or for existing survey beacons to be protected during construction.....provisional sum
(b)	Handling cost and profit in respect of subitem B12.02(a) above.....percentage (%)

Expenditure under this item shall be made in accordance with Clause 6.6 of the General Conditions of Contract 2015.

The tendered percentage is a percentage of the amount of expenditure approved by the Engineer under subitem B12.02(a), and shall include full compensation for the handling costs of the Contractor and the profit in connection with the construction of new survey beacons or the protection of existing survey beacons."

Item	Unit
B12.03	Provision of a Community Liaison Officer
(a)	Wages, salary, allowances, etc.....provisional sum
(b)	Handling cost and profit in respect of subitem B12.03(a) above.....percentage (%)

Expenditure under this item shall be made in accordance with Clause 6.6 of the General Conditions of Contract 2015.

The tendered percentage is a percentage of the amount of expenditure approved by the Engineer under subitem B12.03(a) and shall include full compensation for the handling costs of the Contractor and the profit in connection with the provision of a Community Liaison Officer."

Item	Unit
B12.04	Training
(a)	Appointment of one local trainee student for the duration of the contract. provisional sum
(b)	Handling cost and profit in respect of subitem B12.04(a) above.....percentage (%)

Expenditure under this item shall be made in accordance with Clause 6.6 of the General Conditions of Contract 2015.

The tendered percentage is a percentage of the amount of expenditure approved by the Engineer under subitem B12.04(a), and shall include full compensation for the handling costs of the Contractor and the profit in connection with any additional survey required by the engineer.

B1300: CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL

OBLIGATIONS

B1303 PAYMENT

Add the following at the start of clause 1303:

"All references in clause 1303 to the final value of the work increasing or decreasing by "twenty (20) per cent" in terms of the COLTO general conditions of contract shall be read as increasing or decreasing by "fifteen (15) per cent" in terms of the General Conditions of Contract 2015.

Separate provision has been made in the Schedule of Quantities for the pricing of the Contractor's general obligations with regard to Health and Safety, and for the provision of the key personnel comprising the Site Agent and the surveyor."

Refer to the second sentence of the fourth last paragraph of Clause 1303, page 1300-2 of the COLTO Standard Specifications and delete the words "from the date on which the contractor has received the letter of acceptance in terms of Clause 12 of the General Conditions of Contract" and replace these words with the following:

"from the Commencement Date in terms of Clause 5.2.1 of the General Conditions of Contract (2015),".

Add the following at the end of clause 1303:

"The amount payable to the Contractor for time-related obligations arising from extensions of time granted by the Employer, where the Contractor is fairly entitled to such compensation in terms of Clause 5.12 of the General Conditions of Contract 2015, shall be calculated as follows:

(i) The Contractor shall apply for the extension of time in terms of the number of working days delay incurred.

(ii) The number of working days extension of time finally granted shall then be added to the contract by the Employer, commencing on the first working day after the day of the original completion date. Special non-working days as defined in the contract data shall not be counted as working days in calculating the extended completion date.

(iii) The number of calendar days extension of time granted from the original completion date to the extended completion date as calculated in (ii) above shall then be calculated, commencing on the first calendar day after the day of the original completion date.

The following formula shall then be used to calculate the number of months extension of time granted:

No. of months extension of time granted

= [(No. of calendar days extension of time granted / 365)] x 12

(iv) The number of months extension of time granted calculated as in (iii) above shall be the number of additional months measured for payment for time-related obligations under item 13.01(c) as a result of the extensions of time granted.

Note: The number of months extension of time granted calculated as in (iii) above shall also be included in the measurement of any other items scheduled under Sections 1300, 1400, 1500 or elsewhere in the Schedule of Quantities that involve the unit of measurement "month" and that were provided on site for the full duration of the extended period. Where such items were

provided for a portion of the extended period only, a pro rata payment shall be made, based on the number of calendar days the item was provided on site after the original completion date divided by the number of calendar days as calculated in (iii) above for the extension of time granted."

Add the following new pay items at the end of clause 1303:

Item	Unit
------	------

B13.02 Health and Safety:

(a) Fixed obligations for the preparation of risk assessments, safe work procedures,

the project Health & Safety file, the Health & Safety plan and any other Health & Safety matters that the Contractor deems necessary lump sum (Sum) and checking, the project H & S file, etc.	Sum
--	-----

(b) Fixed obligations for completing and checking the Project Health & Safety file and handing it over to the Employer on completion of the Works.	Sum
--	-----

(c) Time-related obligations for updating and amending the risk assessments, the safe work procedures, the project Health & Safety file and the Health & Safety plan, and for full compliance with all Health & Safety matters during the construction of the Works under the contract	Month
--	-------

Payment of the lump sums bid under sub-items B13.02(a) and sub-item B13.02(b) and the rate per month for sub item B13.02(c) shall, for the three sub-items together, include full compensation for all the Contractor's costs in respect of compliance with the OHS Act and Construction Regulations.

Payment of each of the lump sums bid under sub-items B13.02(a) and sub-item B13.02(b) shall be made in three instalments as specified for the payment of the lump sum bid under sub-item 13.01(a) and sub-item B13.02(b).

The bid rate for sub-item B13.02(c) shall be paid as specified for the payment of the bid rate for sub item 13.01 (c).

Item	Unit
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B13.03 Compensation for Environmental Control:

(a) Environmental Control Officer provided by the Contract	Month
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(b) EMP requirements for the Contract	Month
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Expenditure under this item shall be made in accordance with Clause 6.6 of the General Conditions of Contract 2015.

The tendered percentage is the percentage of the amount of expenditure approved by the Engineer under sub-item B13.03(a) and sub-item B13.03(B), and shall include full compensation for the handling costs of the Contractor and the profit in connection with the management duties.

Item	Unit
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B13.04 Contract signboards (No)	Number
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The unit of measurement shall be the number of contract signboards erected as instructed by the Engineer.

The bid rate shall include full compensation for providing and erecting each contract signboard complete (refer to the typical signboard face detail shown in Section C4.2), including for timber poles and fixings, excavation and backfill, and for dismantling and removing the signboard structures and reinstating the signboard area on completion."

B1500: ACCOMMODATION OF

TRAFFIC B1501

SCOPE

Add the following:

"It is a condition of this contract that traffic is accommodated taking into account the provisions of the latest edition of the South African Road Traffic Signs Manual (SARTSM). The latest version for use in the accommodation of traffic is volume 2, chapter 13 of the June 1999 edition. Copies of this publication are available from Government Printers –Tel: (012) 334 4508/9 or (012) 3344510 Fax: (012) 323 0009.

This section also covers the provision of additional information signs for motorists and the release of any notices to the media and public."

B1502 GENERAL REQUIREMENTS

(a) Safety

Add the following:

"The contractor shall be responsible for maintaining the existing road surface both within the works area and the advance warning and termination areas in a safe and trafficable condition for the duration of the contract."

- (f) Approval of temporary deviations

Add the following:

"If, after any temporary deviation has been constructed, any changes are considered necessary or desirable, the proposal shall be submitted to the Engineer for his approval."

- (i) Traffic Safety Officer

Add the following to the end of the second paragraph:

"The contractor shall submit a CV of the candidate to the Engineer for approval before the candidate is appointed as the traffic safety officer. "

Insert the following as the opening phrase to sub-sub-clause (i):

"make himself available to discuss road safety and traffic accommodation matters whenever required by the Engineer and shall be responsible..."

Delete sub-sub-clauses (ii) and (iii) and replace with the following:

- “(ii) Record on neat and dimensioned sketches and submit to the Engineer the position and sign reference number, where applicable, of each sign, barricade, delineator, cone, guardrail and permanent or temporary painted road marking feature (Only the relevant measurements). The position of each shall be adequately referenced from the marker boards or other surveyed points on the site of the works.

These records shall also show the date and time at which the recorded traffic accommodation features are certified correct by the traffic safety officer, and shall be signed by the traffic safety officer before being submitted to the Engineer.

The records shall similarly account for whatever changes are made in the field. Such changes shall record the position of flagmen and stop/go control men and their associated traffic accommodation equipment wherever they are used.

- iii) Personally inspect the position and condition of each traffic accommodation feature on the whole site of works twice each day by 9h30 and by 16h30, to record all irregularities discovered and the remedial action taken, and to sign off as correct and submit to the Engineer such record sheets by midday of the next working day. The traffic safety officer shall keep a duplicate book for this specific purpose.

The traffic safety officer shall also submit with this report the daily labour returns of flagmen, stop/go and traffic signal control men employed.”

Add the following sub-sub-clauses:

- “(ix) The traffic safety officer shall be equipped with a cellular telephone and shall have a vehicle and sufficient labour at his disposal 24 hours a day, including all prescribed non-working days, and shall not be utilised for other duties. He shall be directly answerable to the contractor’s site agent. The traffic safety vehicle shall be a truck with a capacity of 3 tons.

The vehicle shall also be equipped with an amber-coloured flashing light of the rotating parabolic reflector type with a minimum intensity of 100. The warning light shall be switched on at all times and the sign shall be displayed when the vehicle is used on site.

The traffic safety officer shall have a direct line of communication at all times with the police and traffic officers responsible for the area within limits of the contract. The provision of the road safety vehicle, driver, labourers and the cost of the cellular telephone shall be deemed to be included in the rates tendered for the contractor’s establishment on site.

- (x) Ensure that all obstructions related to the contractor’s activities be removed before nightfall where applicable as instructed by the Engineer and that the roads are safe for night traffic.
- (xi) The traffic safety officer shall, in addition to the duties listed in paragraph 1502(i), also be responsible for the removal of broken down vehicles off the roadway and implementing actions requested by the traffic authorities with regard to the work to be carried out, be responsible for the erection and maintenance of all traffic signs necessary for the accommodation of traffic.
- (xii) In the advent of an accident the traffic officer shall record in a written report the details of the accident, record the position of all temporary road signs, barricades, delineators, flagmen and any other devices used for traffic accommodation. In addition the report shall include a neat dimensional sketch, photographs, identifiable permanent features,

and any other relevant information.”

Add the following sub-clauses:

- “(j) “U” turns

No vehicle or item of equipment shall be allowed to make “U” turns under any circumstances.

- (k) Site personnel

The contractor shall ensure that all his personnel, excluding those who are permanently office bound, are equipped with reflective safety jackets and that these are worn at all times when working on or near to the travelled way. Any person found not wearing a reflective jacket under these circumstances shall be removed from the site until such time as he is in possession of and wearing a reflective jacket. Reflective safety jackets shall be kept in good condition and any jackets that are, in the opinion of the Engineer, ineffective shall be immediately replaced by the contractor.

- (l) Failure to comply with provisions

Failure or refusal on the part of the contractor to take the necessary steps to ensure the safety and convenience of the travelling public, accommodation of traffic, plant and personnel in accordance with these specifications or as required by statutory authorities or ordered by the Engineer, shall be sufficient cause for the Engineer to apply penalties as follows:

A fixed penalty of R2 500.00 per occurrence shall be deducted for each and every occurrence of non-compliance with any of the requirements of section 1500 of the standard specifications and section B1500 of the project specifications.

In addition a time-related penalty of R500,00 per hour over and above the fixed penalty shall be deducted for non-compliance to rectify any defects in the accommodation of traffic within the allowable time after the Engineer has given an instruction to this effect. The Engineer's instruction shall state the allowable time, which shall be the time in hours for reinstatement of the defects. Should the contractor fail to adhere to this instruction, the time-related penalty shall be applied from the time the instruction was given.”

B1503 TEMPORARY TRAFFIC-CONTROL FACILITIES

Replace the first sentence of the first paragraph with the following:

“The contractor shall provide, erect and maintain the necessary traffic-control devices, road signs, canalisation devices, barricades, warning devices and road markings (hereinafter referred to as traffic- control devices) in accordance with these special provisions and as shown on the drawings and in the SARTSM and remove them when no longer required. It shall be incumbent upon the contractor to see to it that the abovementioned traffic-control devices are present where required at all times and are functioning properly.”

Replace the third paragraph with the following:

“The type of construction, spacing and placement of traffic-control devices shall be in accordance with the SARTSM. The recommended arrangements of the traffic control devices illustrated and/or drawings issued by the Engineer shall not be departed from without prior approval of the Engineer. The arrangements expected to be most commonly used in the contract are given on the tender drawings.

The details shown for spacing and placement of traffic-control facilities may however, be revised at the discretion of the Engineer where deemed necessary to accommodate local site geometry and traffic conditions."

- (b) Road signs and barricades

Add the following:

"The contractor shall be responsible for the protection and maintenance of all signs, and shall at his own cost replace any that have been damaged, lost, or stolen.

All temporary road signs required to remain in position for some time shall be pole mounted as shown on the drawings. All temporary road signs required to be moved more often shall be mounted on portable supports for the easy moving of signs to temporary positions. The only permitted method of ballasting the sign supports shall consist of durable sandbags filled with sand of adequate mass to prevent signs from being blown over by wind. The cost of the sandbags shall be included in the tendered rates for the various types of temporary road signs."

(e)

Warning devices

Add the following:

"All construction vehicles and plant used on the works shall be equipped with rotating amber flashing lights and warning boards as specified. All vehicles and plant before being allowed onto the site shall obtain a clearance permit from the Engineer.

- (i) Vehicle mounted flashing lights

Rotating lights shall have an amber lens of minimum height of 200mm and shall be mounted in such a way as to be highly visible from all directions. The lights on construction vehicles shall not be switched on while vehicles are being operated on unrestricted sections of a public road, but shall be switched on while construction vehicles are operating within the accommodation of traffic area, as the vehicles decelerate to enter a construction area, and as the vehicles accelerate to the general speed when entering the road from a construction area. Lights on plant shall operate continuously while the plant is working alongside sections of road open to public traffic

All LDV's and cars operating on site shall also be equipped with rotating amber flashing lights which shall be placed so as to be highly visible and operated continuously while the vehicles are manoeuvring in or out of traffic or are travelling or parked alongside roads open to public traffic.

Rotating lights and the "construction vehicle" signs on the contractor's vehicles and plant shall not be paid for separately but shall be included in the rates covering the use of the vehicles.

The contractor shall apply and maintain lights together with temporary mounting brackets, to the approval of the Engineer. Vehicles and plant that do not comply with these requirements shall be removed from the site."

Add the following sub-clauses:

- "(g) Other traffic control measures ordered by the Engineer

The Engineer may instruct the contractor to provide any other road sign, reflective tape, etc. not measured in standard pay items. Such road signs shall conform to the requirements of the SARTSM, or specification provided by the Engineer. Similarly, in order to ensure that the travelling public is kept fully informed and warned on matters relating to the accommodation of traffic, construction sign posting and the effect of the construction on the free flow of traffic through the site, the Engineer may arrange for advertising in the press and/or for other forms of publicity.

- (h) Flagmen

Flagmen shall be provided where shown on the drawings or required by the specification. During the daytime, at least two flagmen shall be provided at each traffic control point. At night time only one roving flagman equipped with a Stromberg Lightman xenon strobe, or similar approved, and a torch is required at each traffic control point as well as the traffic light operator. Where the shoulder of the road is closed to traffic, a flagman shall be provided at the leading end of the closure during daytime. No flagman shall be on duty for a period of more than 10 hours per day.

Flagmen shall be adequately trained in the standard flagging techniques as described in the SARTSM (refer to figure 13.23 of detail 13.23.1) and be provided with conspicuous clothing such as safety jackets utilizing retro-reflective and/or fluorescent panels in red, yellow and/or white.

Flagmen shall have in their possession, at all times, certification that they have attended and passed an accredited course in flagging techniques before being allowed onto the construction site.

Flags shall be made from bright red or red-orange material and shall be square with a minimum side length of 600mm. The flag shall be attached to a staff at least 1,0m in length.

In terms of lateral clearance and safety, flagmen shall stand on the shoulder of the lane of traffic that is being controlled and under no circumstances shall flagmen be permitted to stand within the traffic lane. In order to obtain maximum visual impact for the travelling public, flagmen shall stand-alone

B1600: OVERHAUL

B1602 DEFINITIONS

- (b) Overhaul

Replace the sub-clause with:

“Payment shall only be made for material hauled in excess of 1 kilometre. Overhaul shall be measured as the product of the volume of material hauled and the overhauled distance.

Add the following to the end of sub-clause 1602(a):

“Overhaul shall not be measured separately for payment for materials obtained from commercial sources, and the rates bid for such materials shall be fully inclusive of all haul required.”

- (d) Free-haul distance

Replace the last sentence with:

“This distance shall be 1 kilometer in the case of all overhaul materials”

B1700: CLEARING AND GRUBBING

B1702 DESCRIPTION OF WORK

- (c) Conservation of topsoil

Add to the end of the 1st paragraph:

“The contractor will not be required to remove topsoil to more than an average depth of 400mm, from any particular area. The depth of topsoil removed shall be reliant on the terrain, suitability of material and topsoil requirements of the work.”

Replace the second paragraph of this clause with the following:

“After clearing and grubbing, all topsoil shall be removed to either windrows alongside the construction area or to stockpile. Where ordered by the Engineer, any topsoil that shall be required for the top soiling of new banks and cuts, but which cannot be accommodated within the construction site, shall be loaded and hauled to the designated stockpile area where it shall be placed in temporary stockpiles for later use in the rehabilitation of the site affected by construction activities. Where new borrow pits are to be opened up the topsoil shall first be removed (independently of the overburden) and placed in temporary stockpiles at the edge of the borrow pit. The moving of topsoil from windrow or the loading of topsoil from temporary stockpiles and the placing and spreading of thereof on cut or fill slopes or on borrow pit spoil sites, is covered in Section 5800.

Refer also to clause B5802 (g) of this project specification.”

B1704 MEASUREMENT AND PAYMENT

Amend the following payment item:

Item	Unit
B17.01 Clearing and grubbing	hectare (ha)

Add the following to the measurement and payment paragraphs:

“Clearing and grubbing of the construction site camp / office shall not be measured separately and shall be deemed to be included in the rates tendered for item B13.01”

2100: DRAINS**B2104 SUBSOIL DRAINAGE**

- (a) **Materials**
 (i) Pipes

Add to Sub-clause 2104(a) (i) the following :

Perforated or slotted un-plasticised PVC pipes shall be used for subsurface drainage.

- (ii) Natural Permeable Material

Add to Sub-clause 2104(a)(ii) the following :

The crushed stone shall be coarse graded (19mm nominal size) and shall conform to the following requirements:

Percentage passing through a 26,5mm sieve	= 100 %.
Percentage passing through a 19,0mm sieve	= 60 to 85 %.

2200: PREFABRICATED CULVERTS**B2204 CONSTRUCTION METHODS**

Add to Clause 2204 the following:

“Generally, prefabricated stormwater drainage pipes and rectangular culverts will be installed using the 'trench method’.

B2210 LAYING AND BEDDING OF PREFABRICATED CULVERTS

- (f) **General**

Add to Sub-clause 2210(f) the following:

“Pipe culverts have been designed to the positions, lengths and elevations shown on the drawings. However, site conditions may dictate that changes are necessary. Any such changes will be agreed with the Engineer and recorded in writing”.

B2211 BACKFILLING OF PREFABRICATED CULVERTS

Add to the fourth paragraph of Clause 2211 the following:

“Where backfilling is done in the upper layers of the road formation, the quality and strength of the backfill material shall at least match that of the surrounding layers”.

B2212 INLET AND OUTLET STRUCTURES, CATCHPITS AND MANHOLES

Add to Clause 2212 the following new sub-clause (j):

- (j) **Subsurface drain outlet into catchpits and manholes**

“Where required, sub-surface drain pipes shall be led into standard stormwater catchpits or manholes, as shown on the drawings or as directed by the Engineer. This shall be done either by making provision during the construction of the chamber, or by breaking out and making good after completion of the chamber.”

2300: CONCRETE CHANNELING, CHUTES, AND DOWN PIPES AND CONCRETE LINING FOR OPEN DRAINS**2304 CONSTRUCTION**

(g) Concrete-lined open drains

The exposed surfaces of the concrete linings of open drains shall be given a class U2 surface finish. Concrete shall be cured in accordance with the requirements of the clause 6409.

Sealed joints in concrete shall be in accordance with the details indicated on the drawings and the provision of the section 6600. Cold joints shall be painted with a coat of approved bituminous emulsion containing 60% of pure bitumen by mass.

Expansion joints shall be made in accordance with the drawings.

B3300: MASS EARTHWORKS

B3312 MEASUREMENT AND PAYMENT

General Directions

Amend the following sub-clause to read:

“(3) Work in restricted areas

No additional payment will be made for work in restricted areas”

Add the following sub-clause:

“(4) The free haul distance for all items unlimited”

B5600: ROAD SIGNS

B5601 SCOPE

Replace “South African Road Traffic Signs Manual” in the second paragraph with: “SADC Road Traffic Signs Manual”

B5603 MANUFACTURING OF ROAD SIGN BOARDS AND SUPPORTS

(a) Road signboards

Add the following:

“The contractor shall make every effort to ensure that signboards are correct in all respect and before dispatching the boards from the manufacturer’s factory shall provide the Engineer with a 100mm x 150mm colour photograph of each sign face for approval of the correctness of the legend. Such approval will not imply final acceptance of the board. If the contractor is in any doubt as to the correctness of the sign detail, the sign designer shall be contacted for verification.”

(ii) Steel profile road signboards

Add the following:

“Chromadek section shall be assembled in accordance with the details of Standard Plans SP-B-12-Sheets 4 and 5 and SP-B-4-Sheets 33E and 34E.

Where the letter or legends cross the horizontal joints of the sign panels, the letter shall be cut on the joint and both ends folded around the radius.

Retro-reflective material to adjoining Chromadek panels on a sign shall be practical visual match of the specified colour.”

B5604 ROAD SIGN FACES AND PAINTING

Add the following sub-clause:

- “(e) Application of retro-reflective material

All sign faces shall be faced with retro-reflective material. Painted front sign faces shall not be used.

Where applied to Chromadek sections, retro-reflective material shall be applied as specified for aluminium section in Clause 5603(d) of the Standard Specification, and of Clause B5603(a)(ii) of this project Specification.”

B5605 STORAGE AND HANDLING

Add the following:

“The following shall not be allowed on the sign face:

- Drilling of holes, except for the fastening of overlays
- Application of any form of adhesive
- Cleaning with any chemicals that are not specifically approved by the manufacturer of the retro-reflective material.
- Covering the sign face with an impermeable material that does not allow free circulation of air.”

B5606 ERECTING ROAD SIGNS**(c) Erection**

Add the following:

“After erection the signboard shall be thoroughly cleaned with a cleaning agent approved by the retro-reflective material’s manufacturer.

All vegetation obstructing the new or replaced sign board shall be removed and disposed of as instructed by the Engineer.”

B5609 MEASUREMENT AND PAYMENT

Item	Unit
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B56.01 Road sign boards with painted or coloured semi-matt background. Symbols, lettering, and borders

in semi-matt black or in Class I retroreflective material, where the sign board is constructed from:

Amend the last two lines of the second paragraph to read:

“completion, delivery, installation of the road sign board complete as specified, and the removal and disposal of all vegetation obstructing the motorists’ view of the new or replaced sign board.

B5900: FINISHING THE ROAD AND ROAD RESERVE AND TREATING**OLD ROADS B5901 SCOPE**

In the first line of the second paragraph, insert the following after ‘this section’

“...distinguishes between new construction and renewal construction. When construction is new, as in the case of new alignments for example, then this section”

5902 FINISHING THE ROAD AND ROAD RESERVE

Retain the existing paragraphs as new sub-clause:

- “(a) New construction”

Replace the sixth paragraph with:

“All materials resulting from the finishing operations shall be disposed of at approved spoil sites.”

Add the following:

- “(b) Renewal construction
After completing construction work within the site, the contractor shall ensure that all construction generated or related material that may have been swept, windrowed, stockpiled, stored or spread beyond the road surface is removed. This shall be done before any other rehabilitation work is undertaken, including shaping, topsoiling and grassing. Should, during the removal of construction generated or related material, existing vegetation or topsoil be disturbed or destroyed, the contractor shall, at his own cost, re-instate the road reserve to its original state. This shall include ripping, should be disposed of at approved spoil sites.”

C3.3.2 Health and Safety Specifications

- OCCUPATIONAL HEALTH AND SAFETY SPECIFICATIONS (OHS)

LIST OF ABBREVIATIONS

RLM	Richmond Local Municipality
CR	Construction Regulations
GAR	General Administration Regulations
GSR	General Safety Regulations
HCSR	Hazardous Chemical Regulations
OHSA	Occupational Health and Safety Act 85 of 1993
OHSS	Occupational Health and Safety Specification
SABS	South African Bureau of Standards

1 INTRODUCTION

1.1 Purpose of the Occupational Health and Safety Specification

The purpose of the OHSS is to assist contractors to achieve compliance with the Occupational Health and Safety law, in order to reduce incidents, injuries and occupational illnesses. The OHSS will be implemented during the construction of this project or any construction activity that the Client has control over.

The OHSS is a performance specification to ensure that the Client and any bodies that enter into formal agreements with the Client viz. Agents, Consultants, Principal Contractors and Contractors achieve an acceptable level of OHS performance. No advice, approval of any document required by the OHSS such as hazard identification and risk assessment action plan or any other form of communication from the Client shall be construed as an acceptance by the Client of any obligation that absolves the Principal Contractor from achieving the required level of performance and compliance with legal requirements. Further, there is no acceptance of liability by the Client which may result from the Principal Contractor failing to comply with the OHSS, i.e. the Principal Contractor remains responsible for achieving the required performance levels.

1.2 Implementation of the Occupational Health and Safety Specification

This OHSS forms an integral part of the Contract, and Principal Contractors are required to make it an integral part of their Contracts with Contractors and Suppliers. It will be disseminated by the Client to persons responsible for the design of the infrastructure works, who will ensure that it is included in the Tender Document(s) issued to prospective Contractors. The prospective Contractors shall incorporate the requirements of the OHSS in their submission of Tenders to the Client. Some of the requirements of the OHSS are detailed in Annexure A.

This specification must be read in conjunction with the OHS Act No 85 of 1993 (as amended)(The Act), the Regulations as published in Government Gazette No 37305 of 07 February 2014 as well as the General Safety Regulations published in Government notice No. R 1031 of 30 May 1986, as amended, the General Administrative Regulations, GAR 929 of 25 June 2003, as amended and any other regulations falling under the Act (collectively known as the Regulations).

The OHS Act Agreement in Section 9 of the Tender Document (Contract Forms) must be fully completed by the Contractor. These documents shall be deemed to form part of the Contract Documents. They must be obtained by the Principal Contractor and copies held on site.

2. SCOPE

This OHSS covers the requirements for eliminating and mitigating incidents and injuries in all Client controlled projects.

The scope also addresses legal compliance, hazard identification and risk control, promoting a health and safety culture amongst those working on MM projects and those affected by the activities taking place in and around them.

2.1 Interpretations

2.2. *Application*

The OHSS contains clauses that are generally applicable to building / construction and that impose pro-active controls associated with activities that impact on human health and safety as they relate to plant and machinery.

Compliance to the requirements of the OHSA, Construction Regulations and General Safety Regulations is in addition to the requirements of the OHSS and is part of the Principal Contractor's responsibility. The Client will through the Agents, as appointed, monitor that the Principal Contractor complies with the requirements of the OHSA and will not prescribe to the Principal Contractor how such compliance is achieved.

2.2.1 *Definitions*

The definitions used will be those set out in the Regulation Gazette No 37305 of 07 February 2014 with the following additions:

Client: Richmond Local Municipality

Engineer: Means a competent person appointed by the Client to design, supervise and monitor construction on their behalf.

Hazard: Source of exposure to danger

Hazard Identification and Risk Assessment and Risk Control:

Means a documented plan, which identifies hazards, assesses the risks and details the control measures and safe working procedures which are to be used to mitigate and control the occurrence of hazards and risks during construction or operation phases.

Health and Safety Management Plan: Means a documented plan which addresses the hazards identified and includes safe working procedures to mitigate, reduce or control the hazards identified.

Induction Training: Means once off introductory training on general health and safety issues given to all employees and visitors to the site before commencement of work on site.

Risk: Means the probability or likelihood that a hazard can result in injury or damage.

Regulations: Shall mean the relevant regulations promulgated in terms of the Occupational Health and Safety Act, 1993 (ACT NO. 85 of 1993)

Site:

Means the area in the possession of the Principal Contractor for the construction of the works. Where there is no demarcated boundary it will include all adjacent areas and haul roads, which are reasonably required for the activities for the Principal Contractor, and approved for such use by the Engineer.

The Act: Means, unless the context indicates otherwise, the Occupational Health and Safety Act, 1993 (ACT NO. 85 of 1993) and Regulations promulgated thereunder.

3. REQUIREMENTS AT TENDER STAGE

The Principal Contractor shall make available the following with his completed Tender:

- (a) A Preliminary Health and Safety Plan as described in Regulation 5 of the Construction Regulations. The Safety Plan must be based on the Construction Regulations February 2014 and this specification and will be subject to approval by the Client or his agent. This will include a Hazard Identification and Risk Assessment Analysis appropriate to the project. Material Safety Data Sheets (MSDSs) and chemical risks must be included in the HIRA
- (b) A declaration to the effect that he has the competence and necessary resources to carry out the work safely in compliance with the Construction Regulations 2014.

Failure to submit the foregoing with his Tender or during Tender evaluation, may lead to the conclusion that the Principal Contractor is not be able to carry out the work under the contract safely in accordance with the Construction Regulations and may result in the Tender being disqualified.

4. NOTIFICATION OF COMMENCEMENT OF CONSTRUCTION WORK

After award of the contract, but before commencement of construction work, the Principal Contractor shall, in terms of Regulation 3, notify the Provincial Director of the Department of Labour in writing if the following work is involved:

- (a) the demolition of structures and dismantling of fixed plant of height of 3,0 m or more;
- (b) the use of explosives;
- (c) construction work that will exceed 30 days or 300 person-days;
- (d) excavation work deeper than 1,0 m; or
- (e) working at a height greater than 3,0 m above ground or landings.

The notification must be done in the form of the pro forma given in Annexure A to the Construction Regulations. A copy of the notification form must be kept on site, available for inspection by inspectors, Client, Engineer, employees and persons on site. Proof of submission must also be provided.

5. GUIDELINES FOR THE DEVELOPMENT OF A HEALTH AND SAFETY PLAN

5.01 Background

In terms of the Construction Regulations [Regulation 4 (1) (a)] of the Occupational Health and Safety Act, No 85 of 1993, the Client is required to compile an Occupational Health and Safety Specification for each of its projects and the Principal Contractor, appointed by the Client in terms of Regulation 4 (1) (c), is required to prepare an Occupational Health and Safety Plan. This plan has to be prepared in terms of Regulation 5 (1) as well as the Client's Occupational Health & Safety Specification. In terms of Regulation 4 (2), the Client and the Principal Contractor are required to agree on the Occupational Health and Safety Plan before any work may commence.

5.02 Framework for an Occupational Health and Safety Plan

5.02.1 Introduction

The Principal Contractor has to demonstrate to the Client that he has a suitable and sufficiently documented Occupational Health and Safety Plan as well as the necessary competencies,

experience and resources to perform the construction work safely. The Principal Contractor is required to submit at, or before, the site handover meeting, the following documentation for perusal and verification by the Client:

- ☐ Management Structure including an organogram
- ☐ Quality Plan
- ☐ Human Resources Plan
- ☐ Registered Workplace Skills Plan
- ☐ "Letter of good standing" issued by the Compensation Commissioner or licensed compensation insurer.
- ☐ Proof of induction and other training of employees
- ☐ Example: copies of minutes of previous Occupational Health and Safety Committee meetings and copies of Incident Investigation Reports for other projects undertaken by the Tenderer.

5.02.2 Contents of an Occupational Health and Safety Plan

The Occupational Health and Safety Plan shall include the following:

- ☐ An Occupational Health and Safety Management Programme
- ☐ **A Statement Regarding the Communication and Management of the Work**
- ☐ A suitable list of contents for the Occupational Health and Safety Plan is given in Annexure E

6. APPOINTMENT OF HEALTH AND SAFETY (H&S) PERSONNEL

6.01 Construction Supervisor

In terms of Section 16 of the Act, the Chief Executive Officer of the Principal Contractor may delegate, in writing, part or all of his powers to a suitable person on the site.

The Principal Contractor shall appoint a full-time **Construction Supervisor**, in writing, in terms of Section 6.1 of the Regulations with the duty of supervising the performance of the construction work.

He may also have to appoint one or more competent employees to assist the construction supervisor where justified by the scope and complexity of the works.

6.02 Construction Health and Safety officer

In terms of Section 6 (6) of the Regulations the Principal Contractor shall appoint in writing a full-time **Construction Safety Officer**.

Should the Principal Contractor wish to appoint a part time Construction Safety Officer, this shall only be done after consultation with the Client.

The Construction Safety Officer shall have the necessary competence and resources to perform his duties diligently.

Provision will be made in the schedule of quantities to cover the cost of a dedicated construction safety officer appointed after award of the contract.

A CV, and training records, of the proposed Construction Safety Officer must be submitted at the Contract Handover Meeting.

The Construction Safety Officer shall not be the same person as the Traffic Safety Officer unless with the written permission of the Client.

6.03 Health and safety representatives

In terms of **Sections 17 and 18 of the Act (OHSA 1993)** the Principal Contractor shall appoint, in writing, a **health and safety representative** whenever he has more than 20 employees in his

employ on the works. The health and safety representative must be selected from employees who are employed in a full-time capacity at a specific workplace and at least half must be elected according to the wishes of the workforce.

Representatives from local labour can be appointed to represent such labour for the duration of the contract. The functions of the H&S Representatives are as outlined in the OH&S Act.

6.04 Health and safety committee

In terms of **Sections 17, 18 and 19 of the Act (OHSA 1993)** the Principal Contractor (as employer), shall establish one or more **health and safety committee(s)** where there are two or more health and safety representatives at a workplace. The persons selected by the Principal Contractor to serve on the committee shall be designated in writing.

The function of the health and safety committee shall be to hold meetings at monthly intervals, to review the health and safety measures on the contract, to discuss incidents related to health and safety with the Principal Contractor's representative and any Department of Labour inspector, and to make recommendations regarding health and safety to the Principal Contractor and to keep record of meetings, recommendations and reports made by the committee.

6.05 Competent persons

In accordance with the Construction Regulations the Principal Contractor shall appoint, in writing, **competent persons** responsible for supervising construction work for the following work situations that may be expected on the site of the works, as applicable to the project. A CV of the person/s concerned should form part of the Health and Safety File

- (a) Risk assessment (Regulation 7);
- (b) Fall protection (Regulation 8);
- (c) Structures (Regulation 9);
- (d) Formwork and support work (Regulation 10);
- (e) Excavation work (Regulation 11);
- (f) Demolition work (Regulation 12);
- (g) Tunnelling (Regulation 13);
- (h) Scaffolding work (Regulation 14);
- (i) Suspended platform operations (Regulation 15);
- (j) Boatswain chairs (Regulation 16);
- (k) Material Hoists (Regulation 17);
- (l) Batch plant operations (Regulation 18);
- (m) Explosive powered tools (Regulation 19)
- (n) Cranes (Regulation 20);
- (o) Construction vehicle and mobile plant (Regulation 21(1));
- (p) Electrical installation and machinery on construction site (Regulation 22);
- (q) Use of temporary storage of flammable liquids on construction site (Regulation 23);
- (r) Water environments (Regulation 24);
- (s) Housekeeping on construction sites (Regulation 25)
- (t) Stacking and storage on construction sites (Regulation 26);
- (u) Fire precautions on construction sites (Regulation 27); and
- (v) Construction welfare facilities
- (w) Incident Investigator
- (x) Construction Supervisor and Assistants (Regulation 6)
- (y) Construction Safety Officer (Regulation 6) and Traffic Safety Officer

A competent person may be appointed for more than one part of the construction work with the understanding that the person must be suitably qualified and able to supervise at the same time the construction work on all the work situations for which he has been appointed.

The appointment of competent persons to supervise parts of the construction work does not relieve the Principal Contractor from any of his responsibilities to comply with **all** requirements of the Construction Regulations.

6.06 Use of Crushers

Where a crusher is established on site, and where quarries are worked, this facet of the project falls within the requirements of the Mines Health and Safety Act (Act No 29 Of 1996) and the regulations in respect of Health and safety will apply. The District Mining Engineer will carry out audits on this aspect of the project.

7. PROJECT / SITE SPECIFIC REQUIREMENTS

A description of the works to be constructed can be found in the Project Specifications, Part A, in the Tender Document. A list of activities and considerations that have been identified for the project and the construction site and for which

Risk Assessments, Standard Working Procedures (SWP), management and control measures and Method Statements (where necessary) have to be developed by the Principal Contractor is given in Annexure D. This list is not to be considered as inclusive and other items must be added as required

In addition, the following health risks should be taken into account. It may become necessary to include others according to the requirements of the project.

Health risks

- ☐ Health risks arising from neighbouring as well as own activities and from the environment e.g. threats by dogs, bees, snakes, lightning etc.
- ☐ Exposure to noise
- ☐ Exposure to vibration
- ☐ Working at heights
- ☐ Working over water
- ☐ Protection against dehydration and heat exhaustion
- ☐ Exposure to dust resulting in pneumoconiosis and potential silicosis
- ☐ Unprotected exposure to wet and cold conditions
- ☐ Exposure to hazardous substances, including the use of radioactive materials in testing equipment, and chemicals used on site.
- ☐ HIV / Aids

Noise Risks

The Principal Contractor or Contractor or owner of the construction plant shall take noise level readings for each type of construction plant to be used on the project and establish a noise zone for each type in terms of Section 9 of the Noise-Induced Hearing Loss Regulations where required in terms of the Regulations, suitable hearing protective equipment shall be issued and worn. Where several items of construction plant are in operation at or near to each other, the noise zone for the combined plant should be established and suitable hearing protective equipment used within this zone.

Based on the results of this monitoring, the contractor may have to make budgetary provision for the medical screening of all employees working in an area where the OEL is exceeded.

- *Construction traffic*

The Principal Contractor must state at what maximum speed traffic, especially haulers, shall be allowed to travel at on site and on haul roads. This limit must be strictly adhered to by all construction traffic. Unreasonable limits may be revised by the Engineer or OHS agent.

- *Emergency Procedures*

The Principal Contractor shall submit a detailed Emergency Procedure for approval by the Client prior to commencement on site. The procedure shall detail the response plan including the following key elements:

-
- ☐ List of key competent personnel;
 - ☐ Details of emergency services;
 - ☐ Actions or steps to be taken in the event of the specific types of emergencies;
 - ☐ Information on hazardous material/situations.

Emergency procedure(s) shall include, but shall not be limited to, fire, spills, accidents to employees, use of hazardous substances, bomb threats, major incidents/accidents, etc. The Principal Contractor shall advise the Client, Agent, Engineer and all relevant authorities forthwith, of any emergencies, together with a record of action taken. This shall be confirmed in writing as soon as possible after the incident. A contact list of all service providers (Fire Department, Ambulance, Police, Medical and Hospital, etc) must be maintained and available to site personnel. These procedures shall form part of the Health and Safety Plan.

- **First Aid Boxes and First Aid Equipment**

The Principal Contractor and all Contractors shall appoint in writing First Aider(s). If not already accredited, the appointed First Aider(s) are to be sent for accredited first aid training. Unless agreed with the Client, at least one first aider shall be certified as Level 3. Valid certificates are to be kept on site. The Principal Contractor shall provide an on-site First Aid Station with first aid facilities, including first aid boxes containing, at least the requirements of the Annexure to Section 3 of the General Safety Regulations. All Principal Contractors with more than 5 employees shall supply their own first aid box. Principal Contractors with more than 10 employees shall have a trained and certified First Aider on site at all times. It is suggested that all supervisors carry a first aid kit in their vehicles at all times.

- **Personal Protective Equipment (PPE) and Clothing**

The Principal Contractor shall ensure that all workers, temporary or permanent, are issued with and shall wear hard hats, protective footwear, reflective bibs or vests and overalls as well as any other necessary PPE as set out in Section

2.3 of the General Safety Regulations. Principal Contractors are must provide reflective vests for all their staff. The Principal Contractor and all Contractors shall make provision and keep adequate quantities of SABS approved PPE on site at all times. This shall include necessary safety gear for visitors. The Principal Contractor shall clearly outline procedures to be taken when PPE or Clothing is:

- ☐ Lost or stolen;
- ☐ Worn out or damaged.
- ☐ Issued to temporary labour or staff.

The above procedure applies to Principal Contractors and their Contractors, as they are all Employers in their own right.

PPE must also be issued to the Consultant's staff, as set out in the Specifications or as requested by the Engineer.

- **Medical Certificates and Medical Surveillance**

Medical certificates provided by a registered Health and Safety Practitioner must be obtained for all persons involved in:

- ☐ Exposure to Hazardous chemicals (HCSR Reg 7)
- ☐ Working at Heights (CR Reg 8 (2))
- ☐ Operation of Construction Vehicles (CR Reg 21 (d))
- ☐ "Listed" activities in terms of Section 12(c) of the Act.

In the case of permanent employees of the Principal, Contractor or sub-contractor no payment will be made for these certificates as they are deemed to be already issued. In the case of temporary employees, payment will be made in terms of payment item.

- **Exposure to hazardous materials**

The Principal Contractor shall, in his Health and Safety Plan, state what methods will be used to determine the exposure of workers to any hazardous materials used on site. Particular attention must

be given to those who are exposed for long periods of time. This is particularly important in the cases of workers exposed to bituminous materials. Regular medical surveillance must form part of the Principle Contractor's Health and Safety Plan.

Environmental monitoring results and risk assessments are to be made available to the occupational health professionals doing the medical surveillance, as well as Job specifications per job category.

- Occupational Health and Safety Signage

The Principal Contractor shall provide adequate on-site OHS signage. This should include but is not limited to: 'no unauthorised entry', 'report to site office', 'site office', 'beware of overhead work', 'hard hat area' in the appropriate positions. 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. These signs shall be in accordance with the requirements of the General Safety Regulations as amended.

Signs shall be posted at all entrances to the site indicating that a construction site is being entered and that persons should take note of safety requirements.

- Induction of employees and visitors

In terms of section 7(7); (8) and (9) inductions must be carried out for employees and visitors to the site. The Contractor's Health and Safety Plan must set out how this will be done as well as how the entrance of visitors to the site will be regulated. The type of proof of induction contemplated in Section 7 (9) shall also be stated.

8. HEALTH AND SAFETY FILE

The Principal Contractor shall in terms of Construction Regulation 5(7) maintain a Health and Safety File on site at all times. The Health and Safety File is a file or other permanent record containing information on aspects of the construction project - which will be necessary to ensure the health and safety of any person who may be affected by the construction work.

The Principal Contractor shall appoint a suitably qualified person to prepare the Health and Safety File and to keep it up to date for the duration of the contract. The Health and Safety file shall include at least the following information:

- ☐ All Documents as required by the Act and Regulations
- ☐ Notification of construction work
- ☐ Proof of registration with the Compensation Commissioner or FEMA
- ☐ All reports of inspections and audits
- ☐ All non-conformity reports
- ☐ A record of all working drawings, calculations and design where applicable
- ☐ Detailed list of Contractors with contact details
- ☐ List of all hazardous materials used and stored on site with Data Sheets and Materials Hazard Data sheets
- ☐ All Hazard Identification and Risk Assessments carried out for the project.
- ☐ All Health and Safety Plans for the project.
- ☐ All method statements
- ☐ Minutes of all relevant meetings
- ☐ Incident records, including investigations and results
- ☐ Record of all appointments under the Regulations
- ☐ Medical certificates of fitness.
- ☐ Record of Competencies
- ☐ Training Records

Annexure B is a list of the records to be kept on site. The inclusion of other, relevant documents is encouraged.

The Health & Safety File shall be handed over to the Client on completion of the contract. It must contain all the documentation as set out above, or as instructed, as well as any handed to the Principal Contractor by any subcontractors.

9. RISK ASSESSMENT

Before commencement of any construction work during the construction period, the Principal Contractor shall have a risk assessment performed and recorded in writing by a competent person. (Refer Regulation 7 of the Construction Regulations 2014).

Risk is a measure of the likelihood that the harm from a particular hazard will be realised, taking into account the possible severity of the harm. Harm to people includes death, injury (permanent or temporary), physical or mental health or any combination thereof. Risk management in health and safety includes the identification of hazards, assessing risks, taking action to eliminate or reduce the risk, monitoring the effectiveness and performing regular reviews of the entire process. The Principal Contractor shall compile method statements to address or handle the following:

- ☐ Hazards particulars to the contract
- ☐ Identify what could go wrong and how
- ☐ Identify the likelihood of this happening
- ☐ Identify the persons at risk
- ☐ Identify the extent of possible harm
- ☐ Eliminating or reducing this risk
- ☐ A monitoring plan
- ☐ A review plan

Principal Contractors must ensure that all subcontractors conduct risk assessments for their scope of work as well.

The risk assessment shall identify and evaluate the risks and hazards that may be expected during the execution of the work under the contract, and it shall include a documented plan of safe work procedures to mitigate, reduce or control the risks and hazards identified.

The risk assessment shall be available on site for inspection by inspectors, Client, Engineer, subcontractors, employees, trade unions and health and safety committee members, and must be monitored and reviewed periodically by the Principal Contractor.

10. ARRANGEMENTS FOR MONITORING AND REVIEW

The Client, or his agent, will conduct a Monthly Audit to audit compliance with Construction Regulation 4 (1) (d) to ensure that the Principal Contractor has implemented and is maintaining the agreed and approved OH&S Plan. Annexure C can be used as a format when conducting the audit.

- The Client reserves the right to conduct other ad hoc audits and inspections as deemed necessary.

A representative of the Principal Contractor must accompany the Client, or his agent, on all audits and inspections and may conduct his own audit/inspection at the same time. Each party will, however, take responsibility for the results of his own audit/inspection results.

11. NONCONFORMITIES

Should, at any time, the works, or part of the works, be stopped in terms of Section 4 subsection (e) the Principal Contractor shall have no claim for extension of time or any other compensation.

12. REPORTING

All accidents and incidents as defined in Regulation 8 of the General Administrative Regulations must be recorded on the form as set out in Annexure 1 to the Regulations and investigated in terms of Regulation 9. Records must be retained as required by section 9 of the GAR.

The Site Safety Officer must compile a safety report on a monthly basis, setting out all incidents and accidents and any other information relating to safety on the site. This is to be presented to the most convenient site meeting and a copy held on the Health and Safety file.

13. MEASUREMENT AND PAYMENT

Payment items to cover the contractor's cost related to OCCUPATIONAL HEALTH AND SAFETY SPECIFICATIONS are included in the bill of quantities. These items are described under Section 1300 in Section B: Matters Relating to the Standard Specifications of the Works Specification.

- ANNEXURE A

RECORDS TO BE KEPT ON SITE

ITEM	CR	RECORD TO BE KEPT	RESPONSIBLE PERSON
1.	3(3)	Notification to Provincial Director – Annexure A Available on site	Principal Contractor
2.	4(3)	Copy of Principal Contractor's Health & Safety Plan Available on request	Client (Consultant)
3.	5(6)	Copy of Principal Contractor's Health & Safety Plan As well as each Contractor's Health & Safety Plan Available on request	Principal Contractor
4.	5(7)	Health & Safety File opened and kept on site (including all documentation-required in respect of the OHSA & Regulations Available on request	Principal Contractor
5.	5(8)	Consolidated Health & Safety File handed to Client on completion of Construction work. To include all documentation required by the OHSA & Regulations.	Principal Contractor
6.	5(9)	Comprehensive and Updated List of all Contractors on site, the agreements between the parties and the work being done Included in Health & Safety file and available on request	Principal Contractor
7.	6(7)	Keep record on the Health & Safety File of the input by Construction Safety Officer [CR 6 (6)] at design stage or on the Health & Safety Plan	Principal Contractor
8.	7(2)	Risk Assessments, kept up to date and available on site for inspection	Principal Contractor
9.	7(9)	Proof of Health & Safety Induction Training	Every Employee on site
10.	8(3)	Construction Supervisor [CR 6 (1)] has latest updated version of Fall Protection Plan [CR 8 (1)]	Principal Contractor
11.	9(2)(b)	Inform Principal Contractor in writing of dangers and hazards relating to construction work	Designer of Structure
12.	9(3)	All drawings pertaining to the design of structure On site available for inspection	Principal Contractor
13.	9(4)	Record of inspection of the structure [First 2 years – once every 6 months, thereafter yearly]	Owner of Structure
14.	9(5)	Maintenance records – safety of structure Available on request	Owner of Structure
15.	10(1)(d)	Drawings pertaining to the design of formwork/support work structure Kept on site, available on request	Principal Contractor
16.	11(3)(h)	Record of excavation inspection On site available on request	Principal Contractor
17.	15(11)	Suspended Platform inspection and performance test records Kept on site available on request	Principal Contractor
18.	17(8)(c)	Material Hoist daily inspection entered and signed in record book kept on the premises	Principal Contractor
19.	17(8)(d)	Maintenance records for Material Hoist Available on site	Principal Contractor
20.	18(9)	Records of Batch Plant maintenance and repairs On site available for inspection	Principal Contractor
21.	19(2)(g)(ii)	Issuing and collection of cartridges and nails or studs (Explosive Powered Tools) recorded in register – recipient signed for receipt as well as return	Principal Contractor
22.	21(1)(d)	Findings of daily inspections (prior to use) of Construction Vehicles and Mobile Plant	Principal Contractor

23.	22(d)	Record of temporary electrical installation inspections [once a week] and electrical machinery [daily before use] in a register and kept on site	Principal Contractor
24		Copies of all appointments made in regard to safety supervisors and inspectors	Principal Contractor
25		Record of safety inspections on equipment using radioactive materials.	Principal Contractor

PART C4: SITE INFORMATION

C4.1 GENERAL

The proposed roads is located at Indaleni in ward 2 under Richmond Local Municipality within the uMgungundlovu District in the KwaZulu-Natal Province. It is located along the southern boundary of the uMgungundlovu District Municipality, approximately 38km south of Pietermaritzburg (the capital of KwaZulu-Natal) along the R56

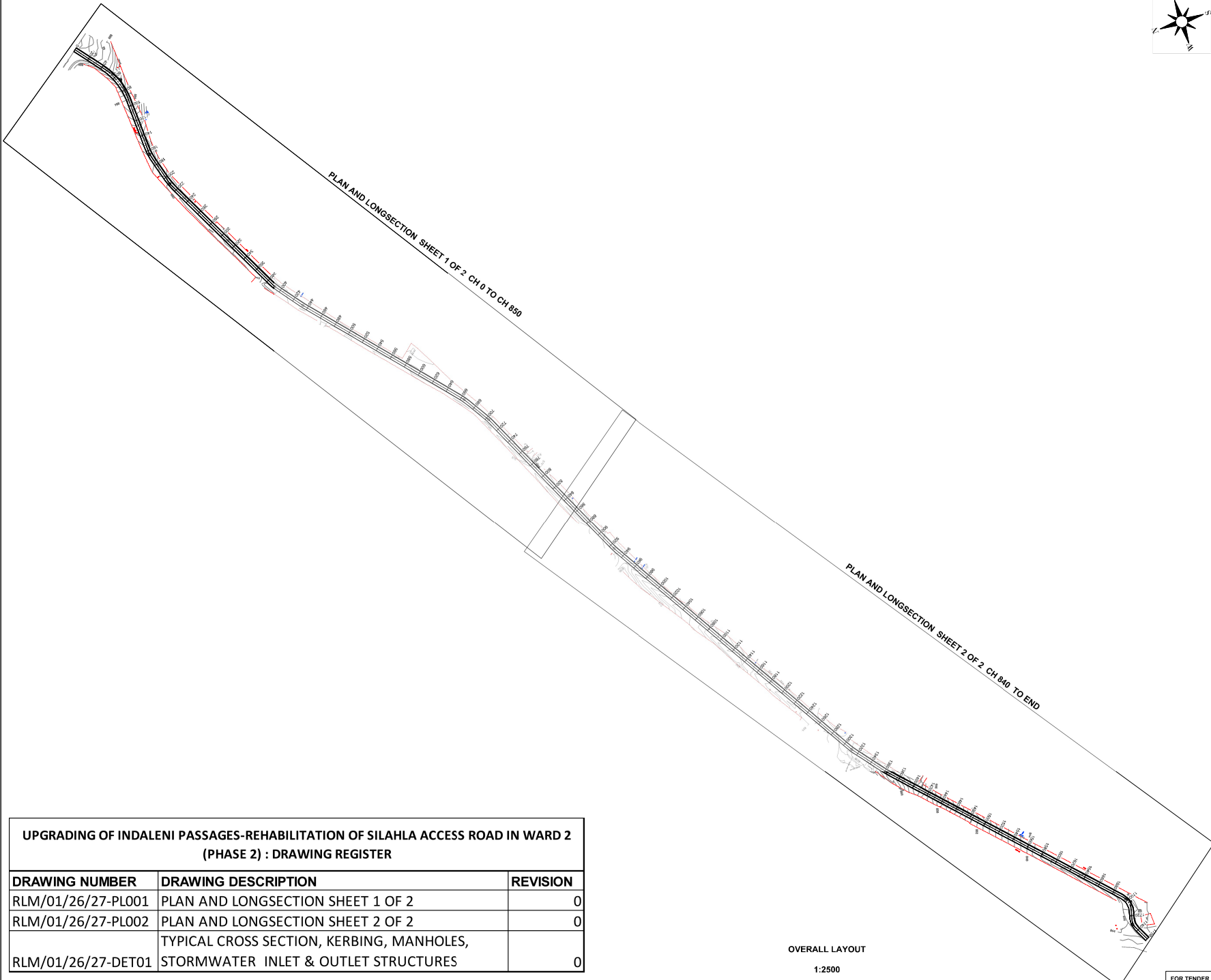
Project Name	Length (m)	Terrain
Silahla Access roads in ward 2– Road 1	Approximately 1760m	Flat
Total Length (m)	Approximately 1760m	

This project consists of Phase 2: and Road phase 2 is an existing deteriorated tar road.

The consists of road upgrading of Silahla road it includes the following construction activities:-

- Clearing and grubbing,
- Mass Earthworks,
- Relocating of existing services,
- Roadbed preparation,
- Construction of Selected Layers,
- Construction of Subbase Layers,
- Construction of Base-course,
- Construction of Asphalt surfacing,
- Installation of new drainage system, and
- Road Marking and signage.

C4 Drawings



- THE COPYRIGHT IN THIS DRAWING, INCLUDING THE DESIGN AND DETAILS SHOWN HEREON, IS RESERVED BY THE ENGINEER.
- NOTES**
1. ALL KERBS, EDGINGS AND CHANNELS MUST COMPLY WITH SANS 1027:2007 EDITION 3.1.
 2. THE CEMENT USED SHALL COMPLY WITH THE REQUIREMENTS OF SANS 50107-1.
 3. THE AGGREGATE SHALL COMPLY WITH THE REQUIREMENTS OF SANS 1008.
 4. THE WATER USED FOR MIXING OF THE CONCRETE SHALL BE FREE FROM IMPURITIES THAT MIGHT IMPAIR THE STRENGTH OR DURABILITY THEREOF.
 5. THE KERBS MUST BE FREE FROM CRACKS OTHER THAN HAIRLINE CRACKS.
 6. THE FACES MUST BE FREE FROM VISIBLE FIRST DENTS.
 7. NO PATCHING OF DEFECTIVE SURFACES OR EDGES WILL BE ALLOWED.
 8. THE COLOUR OF ALL THE KERBS MUST BE UNIFORM.
 9. UNLESS OTHERWISE REQUIRED, THE LENGTH OF THE UNITS SHALL BE 1M.
 10. A TOLERANCE OF 3MM WILL BE ALLOWED ON DIMENSIONS AS PER FIGURE.

- LEGEND:**
- ELECTRIC POWER POLES
 - VALVES
 - EXISTING FENCE
 - EXISTING GABIONS
 - TOP OF BANK
 - BOTTOM BANK
 - EMBANKMENT
 - BENCHMARK
 - CONCRETE
 - GATE
 - DAM TOP
 - GRAVEL ROAD
 - TAR ROAD
 - POWER POLE
 - POWERLINE
 - MANHOLE
 - CULVERT
 - STOP SIGN
 - WALL
 - WATER METER
 - WATER VALVE
 - DRAIN

0	S.M	07/26	FOR TENDER
Rev.	By	Date	Revision Details
DESIGNED	SM		JULY 2026
CHECKED	B.M		JULY 2026
DRAWN	S.M		JULY 2026
CHECKED	B.M		JULY 2026

CLIENT

RICHMOND LOCAL MUNICIPALITY

57 Shephard Road
Richmond,
780

CLIENT APPROVED _____ DATE _____

SIWA CONSULTING ENGINEERS
11 NANA ROAD
HILCREST
3010

TEL : 087 164 7556
EMAIL: info@siwaconsultants.co.za

CONSULTANTS SIGNATURE _____ DATE _____

Pr No. _____

CLIENTS SIGNATURE _____ DATE _____

PROJECT TITLE

UPGRADING OF INDALANI
PASSAGES-REHABILITATION OF SILAHLA
ACCESS ROAD IN WARD 2 (PHASE 2)

DRAWING TITLE:

OVERALL LAYOUT
PLAN

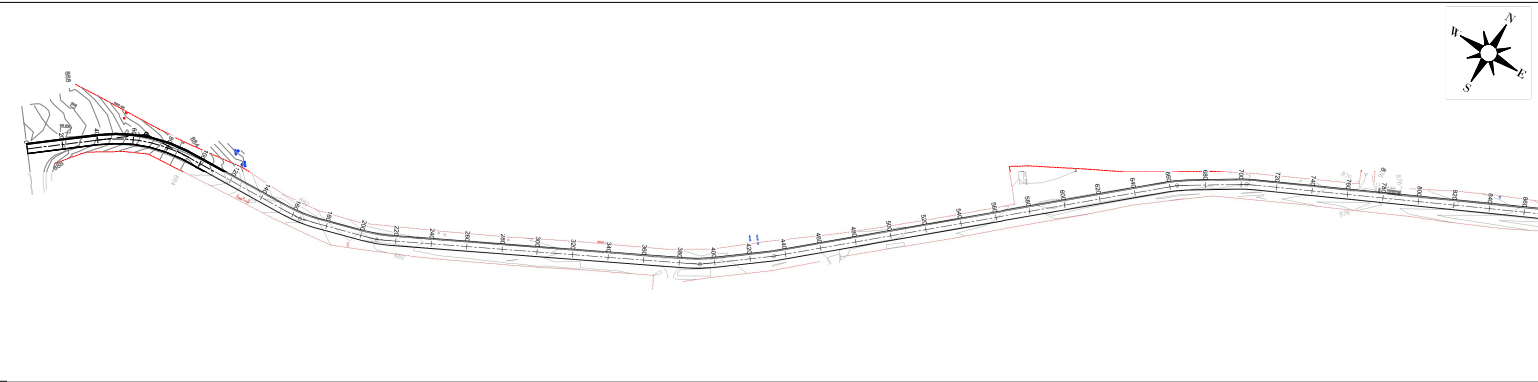
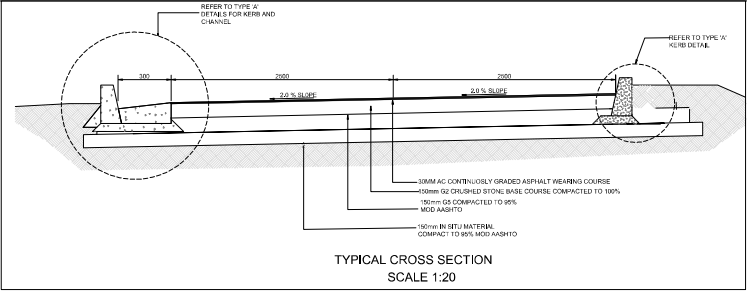
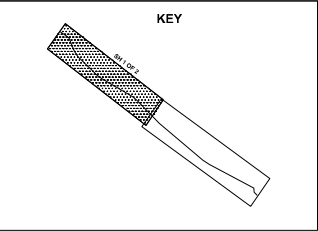
SCALE AS SHOWN SHEET SIZE-A0

DRAWING No.: RLM/01/26/27-PL000 REV. 0

UPGRADING OF INDALANI PASSAGES-REHABILITATION OF SILAHLA ACCESS ROAD IN WARD 2 (PHASE 2) : DRAWING REGISTER		
DRAWING NUMBER	DRAWING DESCRIPTION	REVISION
RLM/01/26/27-PL001	PLAN AND LONGSECTION SHEET 1 OF 2	0
RLM/01/26/27-PL002	PLAN AND LONGSECTION SHEET 2 OF 2	0
RLM/01/26/27-DET01	TYPICAL CROSS SECTION, KERBING, MANHOLES, STORMWATER INLET & OUTLET STRUCTURES	0

OVERALL LAYOUT
1:2500

FOR TENDER ONLY



PLAN
1:1000

SCALES:
Horizontal 1:1000
Vertical 1:250
DATUM 865.000

VERTICAL PROFILE
ROAD GRADES

FINAL DESIGN
ROAD LEVELS

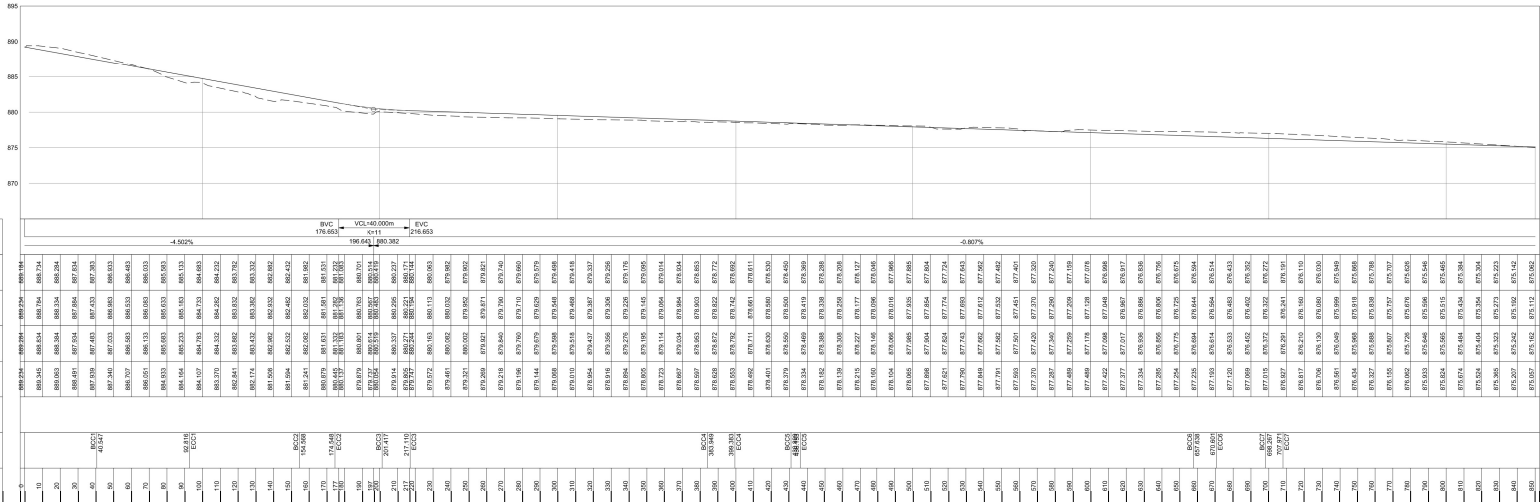
LEFT EDGE (HL)
CENTRE LINE (CL)
RIGHT EDGE (HR)

GROUND LEVELS ON CL

SUPERELEVATION

HORIZONTAL ALIGNMENT

DISTANCE (m)



LONGITUDINAL SECTION
1:1000

- NOTES
1. ALL KERBS, EDGES AND CHANNELS MUST COMPLY WITH SANS 927:2007 EDITION 3.1.
 2. THE CEMENT USED SHALL COMPLY WITH THE REQUIREMENTS OF SANS 5019-1.
 3. THE AGGREGATE SHALL COMPLY WITH THE REQUIREMENTS OF SANS 5019-2.
 4. THE WATER USED FOR MAKING OF THE CONCRETE SHALL BE FREE FROM IMPURITIES THAT MIGHT IMPAIR THE STRENGTH OR CLARITY THEREOF.
 5. THE KERBS MUST BE FREE FROM CRACKS OTHER THAN HAIRLINE CRACKS.
 6. THE FACES MUST BE FREE FROM VISIBLE TYPICALS.
 7. NO IMPROVEMENT OF DEFECTIVE SURFACES OR EDGES WILL BE ALLOWED.
 8. THE COLOUR OF ALL THE KERBS MUST BE UNIFORM.
 9. UNLESS OTHERWISE REQUIRED, THE LENGTH OF THE UNITS SHALL BE 1m.
 10. A TOLERANCE OF 3mm WILL BE ALLOWED ON DIMENSIONS AS PER FIGURE.

LEGEND:

- ELECTRIC POWER POLES
- VALVES
- EXISTING FENCE
- EXISTING GABIONS
- TOP OF BANK
- BOTTOM BANK
- EMBANKMENT
- BENCHMARK
- CONCRETE
- GATE
- DAM TOP
- GRAVEL ROAD
- TAR ROAD
- POWER POLE
- POWERLINE
- MANHOLE
- CULVERT
- STOP SIGN
- WALL
- WATER METER
- WATER VALVE
- DRAIN

0	S.M	06/26	FOR TENDER
Rev.	By	Date	Revision Details
DESIGNED	S.M		JUNE 2026
CHECKED	B.M		JUNE 2026
DRAWN	S.M		JUNE 2026
CHECKED	B.M		JUNE 2026



CLIENT APPROVED

DATE

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CONSULTANTS SIGNATURE

DATE

Pr No.

CLIENTS SIGNATURE

DATE

PROJECT TITLE

UPGRADING OF INDALENI
PASSAGES-REHABILITATION OF SILAHLA
ACCESS ROAD IN WARD 2 (PHASE 2)

DRAWING TITLE:

PLAN AND LONGSECTION
SHEET 1 OF 2

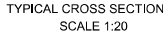
SCALE AS SHOWN

SHEET SIZE-A0

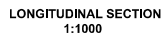
DRAWING No.: RLM/01/26/27-PJ001

REV. 0

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PLAN
1:1000



NOTES:

- LEGEND

- | | | | |
|----------|-----|-------|------------------|
| 0 | S.M | 06/26 | FOR TENDER |
| Rev. | By | Date | Revision Details |
| DESIGNED | SM | | JUNE 2026 |
| CHECKED | B.M | | JUNE 2026 |
| DRAWN | S.M | | JUNE 2026 |
| CHECKED | B.M | | JUNE 2026 |



CLIENT APPROVED	DATE
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PROJECT TITLE	
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UPGRADING OF INDALANI
PASSAGES-REHABILITATION OF SILAHLA
ACCESS ROAD IN WARD 2 (PHASE 2)

DRAWING TITLE:
PLAN AND LONGSECTION
SHEET 2 OF 2

SCALE AS SHOWN SHEET SIZE: A0

DRAWING No.	BLM/01/26/27-PL001	REV.	0
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FOR TENDER ONLY

TYPICAL CROSS SECTION
SCALE 1:20

PRECAST CONCRETE STD TRANSITION KERB
WITH TYPES A,B,C,D & E KERBING.

TRANSITION KERBS
SCALE 1 : 10

TYPE B: FIGURE 6 BARRIER KERB DETAIL

- KERFS GENERAL NOTES -**
1. ALL CAST IN SITU CONCRETE IS TO BE GRADE 20 / 13.
 2. THE SURFACES OF THE CAST IN SITU CHANNEL / FILLET ARE TO HAVE A STEEL FLOAT FINISH.
 3. EXPANSION JOINTS TO BE FORMED THROUGH THE KERBSING, CHANNEL / FILLET AND FOUNDATIONS AT INTERVALS EXCEEDING 15.0m.
 4. CONSTRUCTION JOINTS TO BE FORMED THROUGH THE CHANNEL / FILLET AT 2.0m INTERVALS.
 5. WHERE KERB RADIUS IS LESS THAN 25m THE KERB LENGTH SHALL BE 300mm WHERE THE KERB RADIUS IS LESS THAN 2m THE KERBSING SHALL BE CAST IN SITU.
 6. PRECAST KERBS ARE TO BE LAID WITH A 13mm GAP BETWEEN KERBS WHICH SHALL THEN BE FILLED WITH A CEMENT MORTAR.

NOTES

OUTLET/INLET DIMENSIONS IN mm FOR
 $\theta = 90^\circ$: $L = 1:1.5$; $h = 300\text{ mm}$ & $H = 600\text{ mm}$

NOISYONE

(D)	(W)	(H)	(L)
225	725	1050	1180
275	800	1050	1180
375	875	1050	1720
450	950	1050	1800
600	1100	1200	2100
750	1200	1250	2300

(D) = Ø - IS GRADIENT TO SUIT FILL OR NATURAL
 (W) = HEIGHT TO SUIT GRADIENT 1% (300 MM)
 (H) = 300 MM, 600 MM

PROTECTION MEASURES AS SPECIFIED BY THE
R, WHERE GRASS IS SPECIFIED, SCARIFY AND
SED WITH THE FOLLOWING MIX OF GRASS SEED
(ANOTHER MIX HAS BEEN SPECIFIED:

STORMWATER HEADWALL DETAILS

TYPE 'B' - CONCRETE LINED V-DRAIN (DRAIN NEXT TO ROAD)
SCALE 1 : 10

PLAN

PL

TYPICAL CULVERT INLET MANHOLE
DETAILS: PIPES < 760mm Ø

TYPE S2 STORMWATER KERB INLET DETAILS
SCALE 1:25

760mm X 760mm STORMWATER MANHOLE DETAIL
(MAX. 2500mm DEEP ; PIPES < 525mm Ø)

- | |
|---|
| <p>THE COPYRIGHT IN THIS DRAWING, INCLUDING THE DESIGN AND DETAILS IS/ARE HEREBY RESERVED BY THE ENGINEER</p> <p>NOTES</p> <ol style="list-style-type: none"> ALL KARKERS, EDGINGS AND CHANNELS MUST COMPLY WITH SANS 727:2007 EDITION 3. THE CONCRETE FLOORS SHALL COMPLY WITH THE REQUIREMENTS OF SANS 10137-2. THE AGGREGATE SHALL COMPLY WITH THE REQUIREMENTS OF SANS 1083. THE WATER USED FOR MIXING OF THE CONCRETE SHALL BE FREE FROM ADULTERANTS THAT WEAKEN THE STRENGTH OR DURABILITY THEREOF. THE EDGERS MUST BE FREE FROM CHAKKS OTHER THAN HORIZONTAL CHAKKS. THE FACES MUST BE FREE FROM VISIBLE TYPICAL DEFECTS. NO PATCHING OF DEFECTIVE SURFACES OR CRACKS WILL BE ALLOWED. THE COLOUR OF ALL THE FINISHES MUST BE UNIFORM, UNLESS OTHERWISE REQUIRED. THE LENGTH OF THE UNITS SHALL BE 1000mm. A TOLERANCE OF 3mm WILL BE ALLOWED ON DIMENSIONS AT ANY POINTURE. |
|---|

LEGEND:

- | | |
|---|---------------------------|
|  | EXISTING FENCE |
|  | EXISTING GABIONS |
|  | TOP OF BANK |
|  | BOTTOM BANK
EMBANKMENT |
|  | BENCHMARK |
|  | CONCRETE |
|  | GATE |
|  | DAM TOP |
|  | GRAVEL ROAD |
|  | TAR ROAD |
|  | POWER POLE |
|  | POWERLINE
MANHOLE |
|  | CULVERT |
|  | STOP SIGN |
|  | WALL |
|  | WATER METER |
|  | WATER VALVE |
|  | DRAIN |

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CHECKED	B.M		JUNE 2026



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UPGRADING OF INDALENI
PASSAGES-REHABILITATION OF SILAHILA
ACCESS ROAD IN WARD 2 (PHASE 2)

DRAWING TITLE:	
TYPICAL CROSS SECTION, KERBING, MANHOLES, STORMWATER INLET & OUTLET STRUCTURES	
SCALE AS SHOWN	SHEET SIZE-A0
DRAWING No.: RLM/01/26/27-DET01	REV. 0

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