

GREATER LETABA MUNICIPALITY



CONSTRUCTION OF BOSHAKGE BRIDGE

TENDER NUMBER: GLM009/2026

CIDB GRADING OF 6CE OR HIGHER

CLOSING DATE: 06 OCTOBER 2025 @ 12H00

COMPANY NAME

.....
.....

TENDER SUM (FIGURES) R

.....

TENDER SUM (IN WORDS)

.....
.....

CLIENT:

GREATER LETABA MUNICIPALITY

44 Botha Street
Modjadjiskloof
0835

Tel:015 309 9246
Fax:015 309 9419

CONSULTANT:

MAJOR QUALITY INVESTMENT (PTY) LTD

Stand 5715 Hemlock Waterberg Field
Estate Kosmodal Centurion, Pretoria
0157

Contact Person

Name: Response Ngoveni
Tel: 073 4054 343
Email: info@majorquality.co.za



EXPANDED PUBLIC WORKS PROGRAMME

THE TENDER

T1	TENDERING PROCEDURES	
T1.1	TENDER NOTICE	WHITE
T1.2	INVITATION TO TENDER	
T1.3	TENDER DATA	PINK
T1.4	FUNCTIONALITY CRITERIA	
T2	RETURNABLE DOCUMENTS	
T2.1	LIST OF RETURNABLE DOCUMENTS	YELLOW
T2.2	RETURNABLE SCHEDULES	
T2.3	OTHER DOCUMENTS REQUIRED ONLY FOR TENDER EVALUATION PURPOSES	

THE CONTRACT

C1:	AGREEMENT AND CONTRACT DATA	
C1	FORM OF OFFER AND ACCEPTANCE	
C1.2	CONFIRMATION OF RECEIPT	WHITE
C1.3	PERFORMANCE GUARANTEE	
C1.4	AGREEMENT IN TERMS OF SECTION 37(2) OF THE OHS ACT (No. 85 OF 1993)	
C1.5	CONTRACT DATA	
C2	PRICING DATA	
C2.1	PRICING INSTRUCTIONS	YELLOW
C2.2	BILL OF QUANTITIES	
C3:	SCOPE OF WORK	
C3.1	DESCRIPTION OF WORKS	BLUE (BACK TO BACK)
C3.2	ENGINEERING	
C3.3	CONSTRUCTION	
C3.4	MANAGEMENT	
C4:	SITE INFORMATION	GREEN
C4.1	SITE INFORMATION	

GREATER LETABA MUNICIPALITY



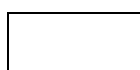
CONSTRUCTION OF BOSHAKGE BRIDGE

PROJECT NO: GLM009/2026

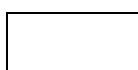
THE TENDER

PART T1 : TENDER PROCEDURES

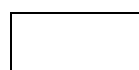
PART T2 : RETURNABLE DOCUMENTS



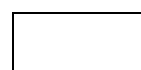
Contractor



Witness 1



Employer



Witness 2

GREATER LETABA MUNICIPALITY



CONSTRUCTION OF BOSHAKGE BRIDGE

PROJECT NO: GLM009/2026

PART T1: TENDER PROCEDURES

- T1.1 : TENDER NOTICE & INVITATION TON TENDER
- T1.2 : TENDER DATA

Contractor

Witness 1

Employer

Witness 1

T1.1 TENDER NOTICE



GREATER LETABA MUNICIPALITY

Bid Number	Project Name	Publication Date	CIDB Grading	Date for Compulsory Briefing Session	Non-refundable amount (Vat Inclusive)	Closing
GLM009/2026	CONSTRUCTION OF BOSHAKGE BRIDGE	5 September 2025	6CE OR HIGHER	12 September 2025, 11H00 @ Modjadjisklo of Libraru	R 2 188.00	6 October 2025

Tender Documents will be available as from the **12 September 2025** at Greater Letaba Municipality main office, at 44 Botha Street, Modjadjiskloof, 0835 during office hours and on the municipal website after the briefing session is held. Payment methods for the bid documents can be cash or EFT (**Bank: FNB Account holder: Greater Letaba Municipality, Account no: 521 0000 5761, Branch code 260449, Ref No. For FNB Users: 111 00000 00000. Ref No. for other banks: Bid number**). Documents may be collected upon a non-refundable cash fee of **R 2 188.00** per document, only cash or EFT purchases will be accepted.

Tenders are hereby invited from prequalified only tenderers who can demonstrate that they will have in their employ staff which satisfy EPWP requirements during the contract validity are eligible to submit tenders.

The Tenderer must complete the Bid Document and attach all Returnable Documents. The Bid Document must be sealed in an envelope stipulating the Project Name & Tender Number (**CONSTRUCTION OF BOSHAKGE BRIDGE, GLM009/2026**) Bid Documents must be deposited into the Tender Box, Ground Floor, Greater Letaba Municipality, 44 Botha Street, Modjadjiskloof, 0835 at no later than **12H00** on the **6 October 2025**.

Prospective Tenderers must be registered with the National Treasury's Central Supplier Database (CSD) and with the Construction Industry Development Board (CIDB). The Bidder must have CIDB Grading of **6CE** or Higher

N.B: The evaluation of bids will be conducted in Two Stages. First stage will be the assessment of functionality as follows: Company work experience 30 Points; Financial Capacity 15 Points; Key personnel: 25 points; Plant & Equipment: 30 points; bidders that obtain a minimum of 70 points will be evaluated further in terms of 80/20 Preference point scoring system, where 80 points will be allocated for price only and 20 points will be allocated based on the B-BBEE status level of contributor.

Bid Documents will be evaluated in terms of the Supply Chain Management Policy of the Greater Letaba Municipality. The lowest tender will not necessarily be accepted or deemed suitable. The Greater Letaba Municipality reserves the right not to consider any tender not suitably endorsed or comprehensively completed, as well as the right to accept the tender in whole part.

 Contractor

 Witness 1

 Employer

 Witness 1

Administration queries may be directed to the Supply Chain Office: Mr Modjadji KLM – 087 086 7471

Technical Enquiries may be directed to: Mr Letsoalo NA – 015 309 9246

SEWAPE MO- MUNICIPAL MANAGER

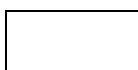
GREATER LETABA MUNICIPALITY

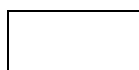
TENDERERS SHALL TAKE NOTE OF THE FOLLOWING BID CONDITIONS:

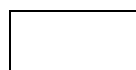
Bidders must complete the Tender Document in Blank Ink, All Pages of the Tender Document must be Initialled, All Forms Must Be Completed, the Bidder Must Sign for All Mistakes/Errors. Should the Bidder Not Adhere to these instructions and those below the Bid will be considered as being Non-Responsive and would therefore be Disqualified.

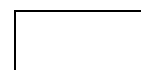
INSTRUCTIONS/RETURNABLE SCHEDULES THAT LEAD TO DISQUALIFICATION OF BID

ITEM	Bids will be disqualified if the following is not provided:	
1.	Company registration certificate (C.K certificate)	
2.	Proof of SARS Tax pin (for all companies in case of a Joint Venture)	
3.	In case of a Joint venture, Association or Consortium a formal contract agreement must be signed by both parties and be attached (if applicable).	
4.	Certified ID copies of all directors/member/shareholders of the company (for all companies in case of a Joint Venture)	
5.	Recent proof of payment for municipal rates and taxes or municipal services charges owed by that bidder or any of its directors to the Municipality which are not in arrears for not more than three months in line with regulation no.38 of the Municipal Supply Chain Management Regulations/ recent and original proof of residence from Traditional Authority or Induna in case where business is located in a non-ratable area / valid lease agreement signed between the Lessor and the Lessee(Bidder).	
6.	Company Profile or schedule indicating bidder's experiences (for all companies in case of Joint Venture)	
7.	All pages of the bid document must be signed and initialled and must be properly completed in black ink (alterations on the bid document must be initialled or signed off)	
8.	The Bidders must submit the master registration number (Central Supplier Database registration number) to enable the Municipality to verify the bidders tax compliance and other information.	
9.	Valid and Relevant letter of good standing (Compensation for Occupational Injuries and Disease Act (COIDA)) from Department of Labour OR any company accredited by Department of Labour.	
10.	Attached letter of Intent to provide guarantee	
11.	Attach Proof of Purchase (Receipt or Proof of payment)	
12.	A copy of relevant CIDB Grading downloadable from the CIDB website.	
13.	Attach bank rating letter no older than 3 months.	
14.	Attach recent three (3) years Audited Financial Statements should the bidder's price offer exceeds R10 million rands.	
15.	Completion of Form of Offer	
16.	Completion of Schedule of Quantities (BOQ must be clearly completed, any alterations must be initialized)	
17.	Certificate of Authority for Signatory	


Contractor


Witness 1


Employer


Witness 1

18.	Programme of works with Cashflow projection on Microsoft Project format(MS Project)	
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NB: The evaluation of the bid will be conducted in two stages; first stage will be assessment on functionality. Only bidders that obtain 70 points will be subjected to 80/20 Preference point scoring system, where 80 points will be allocated for price only and 20 points will be allocated based on the specific goals points scored.

Bidders shall take note of the following bid conditions:

1. Specific goals in terms of the Preferential procurement regulations 2022 will apply on this bid.
2. Council reserves the right to negotiate further conditions in terms of SCM regulation 24 with the successful bidder.
3. Council reserves the right not to appoint.
4. No bidder will be appointed if not registered on Central Supplier Database.
5. Late, incomplete, unsigned, faxed or emailed bids will not be accepted.

NB: Certification on the documents should not be older than Six months.

The evaluation of the bid will be conducted in two stages; first stage will be assessment on functionality. Only bidders that obtain 70 points will be subjected to 80/20 Preference point scoring system, where 80 points will be allocated for price only and 20 points will be allocated based on the specific goals points scored.

Criteria for specific goals :

Specific goals	Points
100% Black owned companies	10
Women owned	5
People with disabilities	2.5
People who are youth	2.5
TOTAL SCORE	20

REQUIRED FOR POINTS SCORING

Curriculum Vitae of key personnel with original certified copies of qualifications, years of relevant experience on similar projects and projects names.

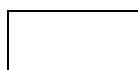
Schedule of company experience (appointment letters and completion certificates)

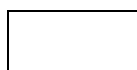
Schedule of plants

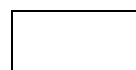
Bank rating letter not older than 3 months

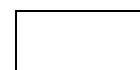
Confidentiality and Copyright of Documents.

Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the employer only for the purpose of preparing and submitting a tender offer in response to the invitation


Contractor


Witness 1


Employer


Witness 1

INVITATION TO BID PART A

(MBD 1)

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (GREATER LETABA MUNICIPALITY)					
BID NUMBER:	GLM009/2026	CLOSING DATE:	06 October 2025	CLOSING TIME:	12h00 Midday
DESCRIPTION	CONSTRUCTION OF BOSHAKGE BRIDGE				
COMPULSORY BRIEFING	12 SEPTEMBER 2025, 11H00 @ MODJADJISLKOOF LIBRARY				
CIDB	6CE OR HIGHER				
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					
44 Botha Street					
Modjadjiskloof, 0835					
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:	
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE [TICK APPLICABLE BOX]	☐ Yes ☐ No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT ☐ Yes ☐ No		
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]					
1. ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ Yes ☐ No [IF YES ENCLOSE PROOF]		2. ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ Yes ☐ No [IF YES, ANSWER PART B:3]	
3. TOTAL NUMBER OF ITEMS OFFERED			4. TOTAL BID PRICE	R	
5. SIGNATURE OF BIDDER			6. DATE		
7. 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					

Contractor

Witness 1

Employer

Witness 1

PART B
TERMS AND CONDITIONS FOR BIDDING

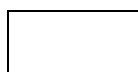
1. BID SUBMISSION:	
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION. 1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED) OR ONLINE 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, 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.	

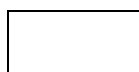
**NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.
 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE.**

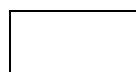
SIGNATURE OF BIDDER :

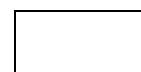
CAPACITY UNDER WHICH THIS BID IS SIGNED :

DATE :


 Contractor


 Witness 1


 Employer


 Witness 1

T1.2 TENDER DATA

The conditions of tender are those contained in the latest edition of SANS 10845-3, Construction Procurement -Part 3:
Standard Conditions of Tender.

SANS 10845-3 makes 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 provision of SANS 1084-3.

Each item of data given below is cross-referenced to the clause in SANS 10845-3 to which it mainly applies.

CLAUSE	DATA																																		
2.1	Wherever reference is made in the documentation to Bill of Quantities it shall also mean Pricing Schedule.																																		
2.7	Wherever reference is made in the documentation to contractor it shall also mean service provider																																		
3.1	Employer is: GREATER LETABA MUNICIPALITY <i>The Employer 's domicilium citandi et excutandi (permanent physical business address) is:</i> 44 Botha Street Modjadjiskloof 0835																																		
3.2	<table border="1"> <tr><td></td><td>The Tender</td></tr> <tr><td>T1</td><td>Tendering Procedures</td></tr> <tr><td>T 1.1</td><td>Tender Notice and Invitation to Tender</td></tr> <tr><td>T1.2</td><td>Tender data</td></tr> <tr><td>T2</td><td>Returnable Documents</td></tr> <tr><td>T2.1</td><td>List of returnable documents</td></tr> <tr><td>T2.2</td><td>Returnable Schedules for Tender Evaluation Purposes</td></tr> <tr><td></td><td>The Contract</td></tr> <tr><td>C1</td><td>Agreements & Contract Data</td></tr> <tr><td>C1.1</td><td>Form of Offer & Acceptance</td></tr> <tr><td>C1.2</td><td>Contract Data</td></tr> <tr><td>C1.3</td><td>Form of Guarantees</td></tr> <tr><td>C2</td><td>Pricing Data</td></tr> <tr><td>C2.1</td><td>Pricing Instructions</td></tr> <tr><td>C2.2</td><td>Bill of Quantities</td></tr> <tr><td>C3</td><td>Scope of Work</td></tr> <tr><td>C4</td><td>Site Information</td></tr> </table>		The Tender	T1	Tendering Procedures	T 1.1	Tender Notice and Invitation to Tender	T1.2	Tender data	T2	Returnable Documents	T2.1	List of returnable documents	T2.2	Returnable Schedules for Tender Evaluation Purposes		The Contract	C1	Agreements & Contract Data	C1.1	Form of Offer & Acceptance	C1.2	Contract Data	C1.3	Form of Guarantees	C2	Pricing Data	C2.1	Pricing Instructions	C2.2	Bill of Quantities	C3	Scope of Work	C4	Site Information
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3.4	The language for communications is English.																																		
3.4	The employer's agent is: MAJOR QUALITY INVESTMENT <i>The Employer 's agent's domicilium citandi et excutandi (permanent physical business address) is:</i> Stand 5715 Hemlock Waterberg Field Estate Kosmodal Centurion, Pretoria 0157 Tel: 073 4054 343 E-mail: INFO@MAJORQUALITY.CO.ZA																																		

Contractor

Witness 1

Employer

Witness 1

3.5	The tender process may be cancelled if: (a) Due to changed circumstances, there is no longer a need for the goods or services specified in the invitation; (b) Funds are no longer available to cover the total envisaged expenditure; (c) No acceptable tender is received; or There is a material irregularity in the tender process
3.6	The competitive selection procedure shall be applied in awarding the tender.
4	Jurisdiction Unless stated otherwise in the Tender Data, each tenderer and the Employer undertake to accept the jurisdiction of the courts of law of the Republic of South Africa.
4.1	Only those tenders who satisfy the following criteria are eligible to submit tender: (a) The Contractor submitting the tender is under restrictions or has principals due to corrupt or fraudulent practices; (b) The tenderer does not have the legal capacity to enter into the contract; (c) The Contractor submitting the tender is insolvent, in receivership, bankrupt or being wound up, has his affairs administered by a court or a judicial officer, has suspended his business activities, or is subject to legal proceedings in respect of the foregoing; (d) The tenderer does not comply with the legal requirements stated in the Employer's procurement policy; (e) The tenderer cannot demonstrate that he possesses the necessary professional and technical qualifications and competent, financial resources, equipment and other physical facilities, managerial capability, personnel, experience and reputation to perform the contract; (f) The Tenderer cannot provide proof that he is in good standing with respect to duties, taxes, levies and contributions required in terms of legislation applicable to the work in the contract. Only those tenderers who are registered with the Construction Industry Development Board (CIDB) with a grading equal to 6CE or higher, or a combined grading equal to 6CE or higher (in the case of a joint venture), as defined in the Regulation (09 August 2004 and 22 JULY 2005), in terms of the CIDB Act No 38 Of 2000, are eligible to submit tender for this contract. 1. Only those Tenderers who have in their employ management and supervisory staff satisfying the requirements of the scope of work for labour intensive competencies for Supervisory and management staff are eligible to submit tender 2. The Tender 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 work together with satisfactory evidence that such staff member satisfy the eligibility requirements.
4.6	Failure to apply instructions contained in addenda may render a tenderer's offer non-responsive in terms of Condition of Tender, Clause 5.8
4.7	There will be no compulsory clarification meeting.
4.10	Tenderers are required to state the rates and currencies in Rand
4.12	Alternative offers are generally not accepted due to possible manipulation of the tender process and resulting complexity of the evaluation. Therefore, the submission of alternative tenders is strongly discouraged. The submission of alternative work will be considered as a non-responsive offer.

Contractor

Witness 1

Employer

Witness 1

	However, a tenderer wishing to submit an alternative offer shall first apply to the employer with full details of the principles of the alternative for confirmation that the Employer's standards and requirements are not comprised or reduced. Such confirmation must have been provided by the Employer in writing at least 5 (five) working days before the date and time of tender closing, or as extended by an addendum sent to all tenderers. The application shall not be submitted later than 7 (seven) working days before the date and time of closing given in Tender Data Clause 4.15
4.13	Parts of each tender communicated on paper shall be submitted as an original, plus zero (0) copies.
4.13.4	The tenderer is required to submit with his tender the following Mandatory documents: • Company registration certificate (C.K certificate) • Proof of SARS Tax pin (for all companies in case of a Joint Venture) • In case of a Joint venture, Association or Consortium a formal contract agreement must be signed by both parties and be attached (if applicable). • Certified ID copies of all directors/member/shareholders of the company (for all companies in case of a Joint Venture) • Recent proof of payment for municipal rates and taxes or municipal services charges owed by that bidder or any of its directors to the Municipality which are not in arrears for not more than three months in line with regulation no.38 of the Municipal Supply Chain Management Regulations/ recent and original proof of residence from Traditional Authority or Induna in case where business is located in a non-ratable area / valid lease agreement signed between the Lessor and the Lessee(Bidder). • Company Profile or schedule indicating bidder's experiences (for all companies in case of Joint Venture) • All pages of the bid document must be signed and initialled and must be properly completed in black ink (alterations on the bid document must be initialled or signed off) • The Bidders must submit the master registration number (Central Supplier Database registration number) to enable the Municipality to verify the bidders tax compliance and other information. • Valid and Relevant letter of good standing (Compensation for Occupational Injuries and Disease Act (COIDA)) from Department of Labour OR any company accredited by Department of Labour. • Attached letter of Intent to provide guarantee • Attach Proof of Purchase (Receipt or Proof of payment) • A copy of relevant CIDB Grading downloadable from the CIDB website. • Attach bank rating letter no older than 3 months. • Attach recent three (3) years Audited Financial Statements should the bidder's price offer exceeds R10 million rands. • Completion of Form of Offer • Completion of Schedule of Quantities(BOQ must be clearly completed, any alterations must be initialized) • Certificate of Authority for Signatory • Programme of works with Cashflow projection on Microsoft Project format(MS Project) In the event of a Joint Venture submitting a tender, both members of the joint venture must submit proof of the aforementioned documents. The combined submission must meet the minimum requirements of the Tender Document Important Note: Failure to provide the required particulars as per the above listed certificates implies a non-responsive tender and warrants rejection of the tender on account of non-compliance with the requirements of the Tender Data

Contractor

Witness 1

Employer

Witness 1

4.13.5	Wherever reference is made in the tender documentation for non-financial proposal it shall also mean technical proposal,
4.13.5	Tenders should be submitted in a sealed envelope indicating the Tender Information and the Delivery Address: Location of Tender Box: Greater Letaba Municipality 44 Botha Street Modjadjiskloof 0835
4.13.5	A two-envelope procedure is NOT required
4.13.5	Telephonic, telegraphic, telex, facsimile or e-mail tender offers shall NOT be accepted
4.15	The closing time for submission of tender offers is 12h00 hours on 06 October 2025.
4.16.1	The tender validity period is 13 Weeks (90 Days)
4.16.2	Where a tenderer, at any time after the opening of his tender offer but prior to entering into a contract based on his tender offer: (a) withdraws his tender; (b) gives notice of his inability to execute the contract in terms of his tenderer; or (c) fails to comply with a request made in terms of 4.17, 4.18 or 5.9; Such tenderer shall be barred from tendering on any of the Employer's tenders for a period to be determined by the Employer, but not less than 6 (six) months from a date determined by the Employer. The Employer may fully or partly exempt a tenderer from provisions of this conditions if he is of the opinion that the circumstances justify the exemption.
4.18	Any additional information requested under the clause must be provided within 5 (five) working days of date of request.
4.19	Access shall be provided for inspections and testing by personnel acting on behalf of the Employer
5.1	The Employer shall respond to clarifications received up to 7 (seven) working days before tender closing time.
5.2	The Employer shall issue addenda until 5 (five) working days before tender closing time.
5.4	There will be no public opening of tenders.
5.5	Bidders must score a minimum Functionality Evaluation score of 70%
	Only those tenderers who can demonstrate that they will have in their employ management and supervisory staff satisfying the requirement of the scope of work for labour-intensive competencies for supervisory and management staff during the validity of the contract are eligible to submit tenders
	The tenderer must submit to the Employer, 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 eligibility requirements.

Contractor

Witness 1

Employer

Witness 1

5.7

Prior to Disqualification, the Employer shall inform the tenderer and give the tenderer an opportunity to make representations within 14 days as to why the tender submitted should not be disqualified and as to why the tenderer should not be restricted by the National Treasury from conducting any business with any organ of state for a period not exceeding 10 years.

In the event of disqualification, the Employer may, at its sole discretion, claim damages from the tenderer and impose a specified period during which tender offers will not be accepted from the offending tenderer and, the Employer shall inform the National Treasury in writing.

*Contractor**Witness 1**Employer**Witness 1*

5.8

Arithmetical errors, omissions, discrepancies and imbalanced unit rates

Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and in words, the amount in words shall govern.

Check responsive tender offers for:

- a) the gross misplacement of the decimal point in any unit rate;
- b) omissions made in completing the Pricing Schedule or Bills of Quantities; or
- c) arithmetic errors in:
 - i) line-item totals resulting from the product of a unit rate in Bills of Quantities or Schedules of Prices; or
 - ii) the summation of prices;
- d) imbalanced unit rates

Notify shortlisted tenderers of all errors, omissions or re-balancing of imbalanced rates that are identified in their tender offers.

Where the tenderer elects to confirm the errors, omissions or re-balancing of imbalanced rates the tender offer shall be corrected as follows:

- a) If Bills of Quantities or Pricing Schedules apply and there is an error in the line-item total resulting from the product of the unit rate and the quantity, the unit rate shall govern, and the line-item total shall be corrected. Where there is an obviously gross misplacement of the decimal point in unit rate, the line item total as quoted, and the unit rate shall be corrected.
- b) Where there is an error in the total of prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall be corrected.
- c) Where the unit rates are imbalanced, adjust such rates by increasing or decreasing them and selected others while retaining the total of the prices derived after any other corrections made under (a) and (b) above.

Where there is an omission of a line item, no correction is possible, and the offer may be declared non-responsive.

Declare as non-responsive and reject any offer from a tenderer who elects not to accept the corrections proposed and subject the tenderer to the sanction under 4.16.2.

The tenderer is required to submit balanced unit rates for Rate only items in the Pricing Schedule. The rates submitted for these items will be taken into account in the evaluation of tenders.

Contractor

Witness 1

Employer

Witness 1

5.11	The procedure for the evaluation of responsive tenders is Method 4
5.11.5	METHOD 4: FINANCIAL OFFER, QUALITY & PREFERENCES In case of financial offer, quality and preferences; a) Score each tender in respect of financial offer made, the preference claimed, if any and the quality offered in accordance with the provisions of 5.11.7 to 5.11.9, rejecting all tender offers that fail to score the minimum number of points for quality stated in the tender data, if any, b) Calculate the total number of tender evaluation points (T_{EV}) in accordance with the following formula; $T_{EV} = N_{FO} + N_P + N_Q$ Where: • N_{FO} is the number of tender evaluation points awarded for financial offer made in accordance with 5.11.7 • N_P is the number of tender evaluation points awarded for preferences claimed in accordance with clause 5.11.8 • N_Q is the number of tender evaluation points awarded for quality offered in accordance with clause 5.11.9 c) rank tender offers from the highest number of tender evaluation points to the lowest, and d) Recommend the tenderer with the highest number of tender evaluation points for the award of the contract, unless there are compelling and justifiable reasons not to do so. Rescore and re-rank all tenderers should there be compelling and justifiable reasons not to recommend the tenderer with the highest number of tender evaluation points and recommend the tenderer with the highest number of tender evaluation points, unless there are compelling and justifiable reasons not to do so, in which case the process set out in this sub clause shall be repeated. If two or more tenderers score an equal total number of points, the contract must be awarded to the tenderer that scored the highest points for preference. If functionality/ quality is part of the evaluation process and two or more tenderer score equal total points and equal preference points, the contract must be awarded to the highest points for functionality/ quality. If two or more tenderers score equal total points in all respects, the award must be decided by the drawing of lots.
5.11.6	Score of financial offers, preferences and quality, as relevant, to be given to two (2) decimal places

 Contractor

 Witness 1

 Employer

 Witness 1

5.11.7	SCORING FINANCIAL OFFERS Score the financial offers using the following formula: $N_{FO} = W_1 \times A$ Where: • N_{FO} is the number of the tender evaluation points awarded for financial offer • W_1 is the maximum possible number of tender evaluation points awarded for financial offer • A is the number calculated using relevant formula described below The following formula shall be used to calculate the points for price (A): $A = \left(1 - \frac{P - P_m}{P_m}\right) W_1$ Where: • P is the comparative offer of the tender offer under consideration • P_m is the comparative offer of the most favourable comparative offer • W_1 is the maximum possible number of tender evaluation points awarded for financial offer (80 Points) In the event that the calculated value is negative, the allocated score shall be zero
5.11.8	SCORING QUALITY Score each of the criteria and sub criteria for quality in accordance with the provision of the tender data. Calculate the total number of tender evaluation points (N_Q) using the following formula $N_Q = W_2 \times S_Q / M_S$ Where: W_2 is the maximum possible number of tender evaluation points awarded for the quality S_Q is the score for quality allocated to the submission under consideration; M_S is the maximum possible score for quality in respect of a submission (using the table given below)
5.11.8.1	The functionality criteria (QUALITY) and, maximum score in respect of each of the sub criteria are as follows:

 Contractor

 Witness 1

 Employer

 Witness 1

FUNCTIONALITY EVALUATION CRITERIA

COMPANY EXPERIENCE

The Bidder must attach Appointments Letters and Completion Certificates for Successfully Completed Projects over the Value of R 6 000 000.00 Points will only be allocated to Projects that fit the Criteria and for Projects that are related to Roads & Stormwater Projects	CONTRACTS MANAGER	SCORING CRITERIA	WEIGHT	SCORE
		The Bidder Scores Zero (0) points where no information regarding the Company's Relevant Past Experience has been indicated.	0	
		1 Roads & Stormwater/Bridge Project that was Successfully Completed within the last 10 years	10	
		2-3 Roads & Stormwater/Bridge Project that were Successfully Completed within the last 10 years	20	
		4 or more Roads & Stormwater projects that were Successfully Completed within the last 10 Years	30	
		COMPANY EXPERIENCE TOTAL	30	

FINANCIAL CAPACITY

	BANK RATING	SCORING CRITERIA	WEIGHT	SCORE
			0	
		BANK RATING = E	5	
		BANK RATING = D	10	
		BANK RATING = A, B, & C	15	
		FINANCIAL CAPACITY TOTAL	15	

KEY PERSONNEL

Certified Copies of Academic Qualifications Certificates must be attached. Years of Experience will be counted from the year when the Qualification in question was obtained	SITE AGENT /CONSTRUCTION MANAGER	SCORING CRITERIA	WEIGHT	SCORE
		No formal Qualification Obtained Qualifications Not Attached	0	
		National Certificate N6: Civil Engineering	3	
		National Diploma (N. Dip.): Civil Engineering with less than 5 years' experience	5	

Contractor

Witness 1

Employer

Witness 1

		National Diploma (N. Dip.): Civil Engineering with more than 5 years' experience	7	
		Bachelor of Science (BSc.Eng.) Civil Engineering Bachelor of Technology (B-Tech.): Civil Engineering: with more than 5yrs experience	10	
		TOTAL	10	
Certified Copies of Academic Qualifications Certificates must be attached. Years of Experience will be counted from the year when the Qualification in question was obtained	SITE FORMAN	SCORING CRITERIA	WEIGHT	SCORE
		No formal Qualification Obtained Qualifications Not Attached	0	
		National Certificate N6: Civil Engineering	5	
		National Diploma (N. Dip.): Civil Engineering with more than 3 years' experience	10	
		TOTAL	10	
Certified Copies of Academic Qualifications Certificates must be attached. Years of Experience will be counted from the year when the Qualification in question was obtained	SAFETY OFFICER	SCORING CRITERIA	WEIGHT	SCORE
		No formal Qualification Obtained Qualifications Not Attached	0	
		Relevant Qualifications with more than 3 years' experience	3	
		TOTAL	3	
Certified Copies of Academic Qualifications Certificates must be attached. Years of Experience will be counted from the year when the Qualification in question was obtained	LIC SUPERVISOR	SCORING CRITERIA	WEIGHT	SCORE
		No formal Qualification Obtained Qualifications Not Attached	0	
		LIC Level 2 with less than 5 years' experience	1	
		TOTAL	1	
Certified Copies of Academic Qualifications Certificates must be attached. Years of Experience will be counted from the year when the Qualification in question was obtained	LIC SUPERVISOR	SCORING CRITERIA	WEIGHT	SCORE
		No formal Qualification Obtained Qualifications Not Attached	0	
		LIC Level 4 with less than 5 years' experience	1	
		TOTAL	1	
KEY PERSONNEL TOTAL			25	

PLANT SCHEDULE

Certified Copies of Proof of Ownership must be attached. In the case where the Plant is to be Hired, a Letter of Intent must be Attached along with Certified Copies of Proof of Ownership	CONSTRUCTION PLANT	SCORING CRITERIA	WEIGHT	SCORE
		EXCAVATOR x 1	5	
		TRACTOR LOADER BACKHOE x 1	5	
		GRADER x 1	5	
		VIBRATORY ROLLER x 1	5	
		WATER TANKER x 2	5	

Contractor

Witness 1

Employer

Witness 1

		TIPPER TRUCK x 5	5	
		PLANT SCHEDULE TOTAL	30	

TOTAL FUNCTIONALITY POINTS SCORED

CRITERIA	WEIGHT	SCORE
COMPANY EXPERIENCE	30	
FINANCIAL CAPACITY	15	
KEY PERSONNEL	25	
PLANT SCHEDULE	30	
TOTAL POINTS FOR FUNCTIONALITY	100	
FUNCTIONALITY THRESHOLD (MINIMUM SCORE)	70	

Contractor

Witness 1

Employer

Witness 1

GREATER LETABA MUNICIPALITY



CONSTRUCTION OF BOSHAKGE BRIDGE

PROJECT NO: GLM009/2026

PART C1: AGREEMENT AND CONTRACT DATA

Contractor

Witness 1

Employer

Witness 1

MBD2	TAX CLEARANCE CERTIFICATE REQUIREMENTS
MBD 3.1	PRICING SCHEDULE – FIRM PRICES (PURCHASES)
MBD 3.2	PRICING SCHEDULE – NON-FIRM PRICES (PURCHASES)
MBD 4	DECLARATION OF INTEREST
MBD 6.1	PREFERENCE POINTS CLAIM FORM
MBD 6.2	DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT
MBD 7.1	CONTRACT FORM – PURCHASE OF GOODS/WORKS
MBD 7.2	CONTRACT FORM - RENDERING OF SERVICES
MBD 8	DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES
MBD 9	CERTIFICATE OF INDEPENDENT BID DETERMINATION
A	CERTIFICATE OF NON-COLLUSIVE TENDER
B	CERTIFICATE OF AUTHORITY FOR SIGNATORY
C	CERTIFICATE OF BIDDER'S VISIT TO THE SITE
D	JOINT VENTURE DISCLOSURE FORM
E	RECORD OF ADDENDA TO TENDER DOCUMENTS
F	PROPOSED AMENDMENTS AND QUALIFICATIONS OF TENDER DOCUMENTS
G	ALTERATIONS BY TENDERER
H	SCHEDULE OF SUBCONTRACTORS
I	SCHEDULE OF PLANT AND EQUIPMENT
J	ORGANOGRAM AND CURRICULUM VITAE OF KEY PERSONNEL
K	SCHEDULE OF TENDERER'S EXPERIENCE
L	PROJECT PROGRAMME AND METHOD STATEMENT
M	SCHEDULE OF ESTIMATED MONTHLY EXPENDITURE
O	CONTRACTOR'S ESTABLISHMENT ON SITE
P	RATES FOR SPECIAL MATERIALS
Q	SCHEDULE OF LOCAL LABOUR CONTENT

Contractor

Witness 1

Employer

Witness 1

PRICING SCHEDULE – FIRM PRICES (PURCHASES)	MBD 3.1
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NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED

IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

Name of Bidder..... Bid Number.....

Closing Time Closing Date

OFFER TO BE VALID FOR.....DAYS FROM THE CLOSING DATE OF BID.

ITEM	QUANTITY	DESCRIPTION	BID PRICE IN RSA CURRENCY
NO.			** (ALL APPLICABLE TAXES INCLUDED)

- Required by:

- At:

- Brand and Model

- Country of Origin

1

Contractor

1

Witness 1

11

Employer

11

Witness 1

- Does the offer comply with the specification(s)? *YES/NO
- If not to specification, indicate deviation(s)
- Period required for delivery
*Delivery: Firm/Not firm
- Delivery basis

Note: All delivery costs must be included in the bid price, for delivery at the prescribed destination.

** "all applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.

*Delete if not applicable


Contractor


Witness 1


Employer


Witness 1

PRICING SCHEDULE – NON-FIRM PRICES (PURCHASES)	MBD 3.2
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NOTE: PRICE ADJUSTMENTS WILL BE ALLOWED AT THE PERIODS AND TIMES SPECIFIED IN THE BIDDING DOCUMENTS.

IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

Name of Bidder.....	Bid number.....
Closing Time	Closing Date

OFFER TO BE VALID FOR.....DAYS FROM THE CLOSING DATE OF BID.

ITEM QUANTITY DESCRIPTION BID PRICE IN RSA CURRENCY NO.

**** (ALL APPLICABLE TAXES INCUDED)**

- **Required by:**

- **At:**

- **Brand and model**

-

Contractor

Witness 1

Employer

Witness 1

- Country of origin
- Does the offer comply with the specification(s)? *YES/NO
- If not to specification, indicate deviation(s)
- Period required for delivery
- Delivery: *Firm/Not firm

** "all applicable taxes" includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.

*Delete if not applicable

MBD 3.2

PRICE ADJUSTMENTS

A NON-FIRM PRICES SUBJECT TO ESCALATION

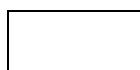
1. IN CASES OF PERIOD CONTRACTS, NON FIRM PRICES WILL BE ADJUSTED (LOADED) WITH THE ASSESSED CONTRACT PRICE ADJUSTMENTS IMPLICIT IN NON FIRM PRICES WHEN CALCULATING THE COMPARATIVE PRICES
2. IN THIS CATEGORY PRICE ESCALATIONS WILL ONLY BE CONSIDERED IN TERMS OF THE FOLLOWING FORMULA:

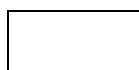
$$Pa = (1 - V)Pt \left(D1 \frac{R1t}{R1o} + D2 \frac{R2t}{R2o} + D3 \frac{R3t}{R3o} + D4 \frac{R4t}{R4o} \right) + VPt$$

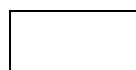
Where:

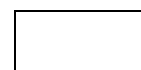
Pa = The new escalated price to be calculated.

(1-V) Pt = 85% of the original bid price. **Note that Pt must always be the original bid price and not an escalated price.**


Contractor


Witness 1


Employer


Witness 1

D1, D2.. = Each factor of the bid price eg. labour, transport, clothing, footwear, etc. The total of the various factors D1,D2...etc. must add up to 100%.

R1t, R2t..... = Index figure obtained from new index (depends on the number of factors used).

R1o, R2o = Index figure at time of bidding.

VPt = 15% of the original bid price. This portion of the bid price remains firm i.e. it is not subject to any price escalations.

3. The following index/indices must be used to calculate your bid price:

Index..... Dated..... Index..... Dated..... Index..... Dated.....

Index..... Dated..... Index..... Dated..... Index..... Dated.....

4. FURNISH A BREAKDOWN OF YOUR PRICE IN TERMS OF ABOVE-MENTIONED FORMULA. THE TOTAL OF THE VARIOUS FACTORS MUST ADD UP TO 100%.

FACTOR (D1, D2 etc. eg. Labour, transport etc.)	P PERCENTAGE OF BID PRICE

Contractor

Witness 1

Employer

Witness 1

MBD 3.2**B PRICES SUBJECT TO RATE OF EXCHANGE VARIATIONS**

1. Please furnish full particulars of your financial institution, state the currencies used in the conversion of the prices of the items to South African currency, which portion of the price is subject to rate of exchange variations and the amounts remitted abroad.

PARTICULARS OF FINANCIAL INSTITUTION	ITEM NO	PRICE	CURRENCY	RATE	PORTION OF PRICE SUBJECT TO ROE	AMOUNT IN FOREIGN CURRENCY REMITTED ABROAD
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		

2. Adjustments for rate of exchange variations during the contract period will be calculated by using the average monthly exchange rates as issued by your commercial bank for the periods indicated hereunder: (Proof from bank required)

AVERAGE MONTHLY EXCHANGE RATES FOR THE PERIOD:	DATE DOCUMENTATION MUST BE SUBMITTED TO THIS OFFICE	DATE FROM WHICH NEW CALCULATED PRICES WILL BECOME EFFECTIVE	DATE UNTIL WHICH NEW CALCULATED PRICE WILL BE EFFECTIVE

Contractor

Witness 1

Employer

Witness 1

DECLARATION OF INTEREST

MBD 4

No bid will be accepted from persons in the service of the state*.

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 and/or take an oath declaring his/her interest.

In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

Full Name:

Identity Number:

Company Registration Number:

Tax Reference Number:

VAT Registration Number:

Are you presently in the service of the state*?

YES / NO

If so, furnish particulars

Have you been in the service of the state for the past twelve months?

YES / NO

If so, furnish particulars.

*** MSCM Regulations: "in the service of the state" means to be –**

- a member of –
 - ❖ any municipal council;
 - ❖ any provincial legislature; or
 - ❖ the national Assembly or the national Council of provinces;
- a member of the board of directors of any municipal entity;
- an official of any municipality or municipal entity;
- 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);
- a member of the accounting authority of any national or provincial public entity; or an employee of Parliament or a provincial legislature.


Contractor


Witness 1


Employer


Witness 1

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

If so, furnish particulars.

Are you, aware of any relationship (family, friend, other) between a 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

If so, furnish particulars.

Are any of the company's directors, managers, principal shareholders or stakeholders in service of the state

YES / NO

If so, furnish particulars.

Is any spouse, child or parent of the company's directors, managers, principal shareholders or stakeholders in service of the state?

YES / NO

If so, furnish particulars.

CERTIFICATION

I THE UNDERSIGNED (NAME)

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

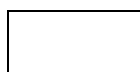
I ACCEPT THAT THE STATE MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE

Signature

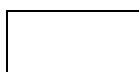
Date

Position

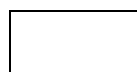
Name of Bidder



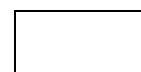
Contractor



Witness 1



Employer



Witness 1

PREFERENCE POINTS CLAIM FORM

MBD 6.1

IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

The **80/20** system for requirements with a Rand value of up to R50 million (all applicable taxes included) and

The **90/10** system for requirements with a Rand value above R50 million (all applicable taxes included).

1.2 (a) the value of this bid is estimated to exceed/not exceed R50 000 000 (all applicable taxes included) and therefore the preference point system shall be applicable; or

(b) Either the 80/20 or 90/10 preference point system will be applicable to this tender (delete whichever is not applicable for this tender).

1.3 Points for this bid shall be awarded for:

(a) Price; and

1.4. The maximum points for this bid are allocated as follows:

	POINTS
Price	80
Specific goals • 100% Black owned companies -10 • Women owned – 5 • People with disabilities – 2.5 • People who are youth – 2.5	20
Total points for price and Specific goals must not exceed	100

1.5. The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2. DEFINITIONS

- a) **BID** - means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of services, works or goods, through price quotations, advertised competitive bidding processes or proposals;
- b) **BROAD-BASED BLACK ECONOMIC EMPOWERMENT ACT** - means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- c) **EME** - means an excepted micro enterprise in terms of a quote of good practice on Black Economic Empowerment issued in terms of section 9(1) of the Broad-Based Economic Empowerment Act.

Contractor

Witness 1

Employer

Witness 1

- d) **FUNCTIONALITY** - means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender document.
- e) **PRICE** - includes all applicable taxes less on unconditional discounts.
- f) **QSE** - means a qualifying small business enterprise in terms of a code of good practice on Black Economic Empowerment issued in terms of section 9(1) of the Broad Black Economic Empowerment Act.
- g) **RAND VALUE** - means the total estimated value of a contract in rand, calculated at the time of bid invitations, and includes all applicable taxes and excise duties;

3. POINTS AWARDED FOR PRICE

THE 80/20 or 90/10 PREFERENCE POINT SYSTEMS

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

80/20

90/10

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

Where:

P_s	=	Points scored for comparative price of bid under consideration
P_t	=	Comparative price of bid under consideration
$P_{\min}$	=	Comparative price of lowest acceptable bid

SUB-CONTRACTING

Will any portion of the contract be sub-contracted?

YES / NO

(delete which is not applicable)

If yes, indicate:

what percentage of the contract will be subcontracted?

%

the name of the sub-contractor?

whether the sub-contractor is an EME?

YES / NO

(delete which is not applicable)

Contractor

Witness 1

Employer

Witness 1

DECLARATION WITH REGARD TO COMPANY / FIRM

Name of firm _____

VAT registration number _____

Company registration number _____

TYPE OF COMPANY/ FIRM (TICK APPLICABLE BOX)

- ☐ Partnership/Joint Venture / Consortium
- ☐ One person business/sole propriety
- ☐ Close corporation
- ☐ Company
- ☐ (Pty) Limited

DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

COMPANY CLASSIFICATION (TICK APPLICABLE BOX)

- ☐ Manufacturer
- ☐ Supplier
- ☐ Professional service provider
- ☐ Other service providers, e.g. transporter, etc.

MUNICIPAL INFORMATION

Municipality where business is situated _____

Registered Account Number _____

Stand Number _____

TOTAL NUMBER OF YEARS THE COMPANY/FIRM HAS BEEN IN BUSINESS? _____

Contractor

Witness 1

Employer

Witness 1

I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals indicated in paragraph 7, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

The information furnished is true and correct;

The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form.

In the event of a contract being awarded as a result of points claimed as shown in paragraph 7, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;

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;

restrict the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, 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 forward the matter for criminal prosecution

Company Name

Full Name

Capacity

Signature

Date

WITNESS 1

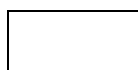
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Date

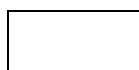
WITNESS 2

Signature

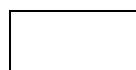
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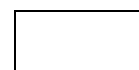
Contractor



Witness 1



Employer



Witness 1

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT	MBD 6.2
---	----------------

This Municipal Bidding Document (MBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2011 and the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:201x.

GENERAL CONDITIONS

Preferential Procurement Regulations, 2011 (Regulation 9.(1) and 9.(3) make provision for the promotion of local production and content.

Regulation 9.(1) prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.

Regulation 9.(3) prescribes that where there is no designated sector, a specific bidding condition may be included, that only locally produced services, works or goods or locally manufactured goods with a stipulated minimum threshold for local production and content, will be considered.

Where necessary, for bids referred to in paragraphs 1.2 and 1.3 above, a two-stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and specific goals.

A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.

The local content (LC) as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 201x as follows:

$$LC = 1 - \left(\frac{x}{y} \right) \times 100$$

Where:

x = imported content

y = bid price excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by the South African Reserve Bank (SARB) at 12:00 on the date, one week (7 calendar days) prior to the closing date of the bid as required in paragraph 4.1 below.

A bid will be disqualified if the bidder fails to achieve the stipulated minimum threshold for local production and content indicated in paragraph 3 below; and this declaration certificate is not submitted as part of the bid documentation.

Contractor

Witness 1

Employer

Witness 1

DEFINITIONS

BID - includes advertised competitive bids, written price quotations or proposals;

BID PRICE - price offered by the bidder, excluding value added tax (VAT);

CONTRACT - means the agreement that results from the acceptance of a bid by an organ of state;

DESIGNATED SECTOR - means a sector, sub-sector or industry that has been designated by the Department of Trade and Industry in line with national development and industrial policies for local production, where only locally produced services, works or goods or locally manufactured goods meet the stipulated minimum threshold for local production and content;

DULY SIGN - means a Declaration Certificate for Local Content that has been signed by the Chief Financial Officer or other legally responsible person nominated in writing by the Chief Executive, or senior member / person with management responsibility (close corporation, partnership or individual).

IMPORTED CONTENT - means that portion of the bid price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or its subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs, such as landing costs, dock duties, import duty, sales duty or other similar tax or duty at the South African port of entry;

LOCAL CONTENT - means that portion of the bid price which is not included in the imported content, provided that local manufacture does take place;

STIPULATED MINIMUM THRESHOLD - means that portion of local production and content as determined by the Department of Trade and Industry; and

SUB-CONTRACT - means the primary contractor's assigning, leasing, making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract.

The stipulated minimum threshold(s) for local production and content for this bid is / are as follows:

<u>Description of Services, Works or Goods</u>	<u>Stipulated Minimum Threshold</u>
.....	 %
.....	 %
.....	 %

Does any portion of the services, works or goods offered have any imported content?

***YES / NO**

If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.6 of the general conditions must be the rate(s) published by the South African Reserve Bank (SARB) for the specific currency at 12:00 on the date, one week (7 calendar days) prior to the closing date of the bid.

The relevant rates of exchange information are accessible on **WWW.RESERVEBANK.CO.ZA**.

Indicate the rate(s) of exchange against the appropriate currency in the table below:

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

Contractor

Witness 1

Employer

Witness 1

**LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON
NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT
RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)**

IN RESPECT OF BID No. _____

ISSUED BY: (Procurement Authority / Name of Municipality / Municipal Entity): _____

NB The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

I, the undersigned, _____ (Full Names)

Do hereby declare, in my capacity as _____

of _____ (Entity Name)

the following:

- The facts contained herein are within my own personal knowledge.
- I have satisfied myself that the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286.
- The local content has been calculated using the formula given in clause 3 of SATS 1286, the rates of exchange indicated in paragraph 4.1 above and the following figures:

Bid price, excluding VAT (y)	R
Imported content (x)	R
Stipulated minimum threshold for Local content (paragraph 3 above)	
Local content % as calculated in terms of SATS 1286	

If the bid is for more than one product, a schedule of the local content by product shall be attached.

- I accept that the Procurement Authority / Municipality /Municipal Entity has the right to request that the local content be verified in terms of the requirements of SATS 1286.
- I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286, may result in the Procurement Authority / Municipal / Municipal Entity imposing any or all of the remedies as provided for in Regulation 13 of the Preferential Procurement Regulations, 2011 promulgated under the Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE: _____

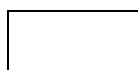
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WITNESS 1 _____

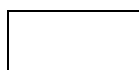
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WITNESS 2 _____

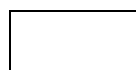
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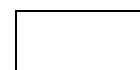
Contractor



Witness 1



Employer



Witness 1

CONTRACT FORM - PURCHASE OF GOODS/WORKS**MBD 7.1**

THIS FORM MUST BE FILLED IN DUPLICATE BY BOTH THE SERVICE PROVIDER (PART 1) & THE PURCHASER (PART 2). BOTH FORMS MUST BE SIGNED IN THE ORIGINAL SO THAT THE SERVICE PROVIDER AND THE PURCHASER WOULD BE IN POSSESSION OF ORIGINALLY SIGNED CONTRACTS FOR THEIR RESPECTIVE RECORDS.

PART 1 (TO BE FILLED IN BY THE SERVICE PROVIDER)

1. I hereby undertake to supply all or any of the goods and/or works described in the attached bidding documents to (name of institution)..... in accordance with the requirements and specifications stipulated in bid number..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the purchaser during the validity period indicated and calculated from the closing time of bid.

2. The following documents shall be deemed to form and be read and construed as part of this agreement:
 - (i) Bidding documents, viz
 - Invitation to bid;
 - Tax clearance certificate;
 - Pricing schedule(s);
 - Technical Specification(s);
 - Preference claims for Broad Based Black Economic Empowerment Status Level of Contribution in terms of the Preferential Procurement Regulations 2011;
 - Declaration of interest;
 - Declaration of bidder's past SCM practices;
 - Certificate of Independent Bid Determination;
 - Special Conditions of Contract;
 - (ii) General Conditions of Contract; and
 - (iii) Other (specify)

3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the goods and/or works specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.

4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfillment of this contract.

5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.

Contractor

Witness 1

Employer

Witness 1

6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT)

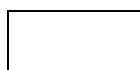
CAPACITY

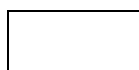
SIGNATURE

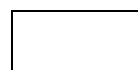
NAME OF FIRM

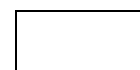
DATE

WITNESSES	
1	
2.	
DATE:	


Contractor


Witness 1


Employer


Witness 1

CONTRACT FORM - PURCHASE OF GOODS/WORKS	MBD 7.1
--	----------------

PART 2 (TO BE FILLED IN BY THE PURCHASER)

1. I..... in my capacity as.....accept your bid under reference numberdated.....for the supply of goods/works indicated hereunder and/or further specified in the annexure(s).

2. An official order indicating delivery instructions is forthcoming.

3. I undertake to make payment for the goods/works delivered in accordance with the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice accompanied by the delivery note.

ITEM NO.	PRICE (ALL APPLICABLE TAXES INCLUDED)	BRAND	DELIVERY PERIOD	B-BBEE STATUS LEVEL OF CONTRIBUTION	MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT (if applicable)

4. I confirm that I am duly authorized to sign this contract.

SIGNED ATON.....

NAME (PRINT)

SIGNATURE

OFFICIAL STAMP

WITNESSES

1.

2.

DATE.....

Contractor

Witness 1

Employer

Witness 1

CONTRACT FORM - RENDERING OF SERVICES**MBD 7.2**

THIS FORM MUST BE FILLED IN DUPLICATE BY BOTH THE SERVICE PROVIDER (PART 1) & THE PURCHASER (PART 2). BOTH FORMS MUST BE SIGNED IN THE ORIGINAL SO THAT THE SERVICE PROVIDER AND THE PURCHASER WOULD BE IN POSSESSION OF ORIGINALLY SIGNED CONTRACTS FOR THEIR RESPECTIVE RECORDS.

PART 1 (TO BE FILLED IN BY THE SERVICE PROVIDER)

7. I hereby undertake to render services described in the attached bidding documents to **GREATER LETABA MUNICIPALITY** in accordance with the requirements and task directives / proposals specifications stipulated in Bid Number **GLM009/2026** at the price/s quoted. My offer/s remains binding upon me and open for acceptance by the Purchaser during the validity period indicated and calculated from the closing date of the bid.
8. The following documents shall be deemed to form and be read and construed as part of this agreement:
 - (iv) Bidding documents, viz
 - Invitation to bid;
 - Tax clearance certificate;
 - Pricing schedule(s);
 - Filled in task directive/proposal;
 - Preference claims for Specific Goals in terms of the Preferential Procurement Regulations 2011;
 - Declaration of interest;
 - Declaration of Bidder's past SCM practices;
 - Certificate of Independent Bid Determination;
 - Special Conditions of Contract;
 - (v) General Conditions of Contract; and
 - (vi) Other (specify)
9. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the services specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.
10. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfilment of this contract.
11. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
12. I confirm that I am duly authorised to sign this contract

Company Name

Full Name

Capacity

Signature

Date

WITNESS 1

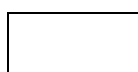
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Date

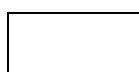
WITNESS 2

Signature

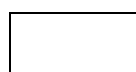
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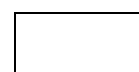
Contractor



Witness 1



Employer



Witness 1

PART 2 (TO BE FILLED IN BY THE PURCHASER)

4. I..... in my capacity as.....
accept your bid under reference number dated for
the rendering of services indicated hereunder and/or further specified in the annexure(s).
5. An official order indicating service delivery instructions is forthcoming.
6. I undertake to make payment for the services rendered in accordance with the terms and conditions of the contract, within
30 (thirty) days after receipt of an invoice.

DESCRIPTION OF SERVICE	PRICE (ALL INCLUSIVE))	COMPLETION DATE	B-BBEE STATUS LEVEL OF CONTRIBUTION	MINIMUM THRESHOLD FOR LOCAL CONTENT

CERTIFICATION

.....
Company Name

.....
Full Name

.....
Capacity

.....
Signature

.....
Date

.....
Signed At

WITNESS 1

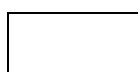
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Signature

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Date

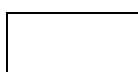
WITNESS 2

.....
Signature

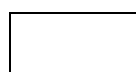
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Date



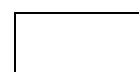
Contractor



Witness 1



Employer



Witness 1

DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

MBD 8

This Document 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.

- The bid of any bidder may be rejected if that bidder, or any of its directors have:
- abused the municipality's / municipal entity's supply chain management system or committed any improper conduct in relation to such system;
- been convicted for fraud or corruption during the past five years;
- wilfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
- 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).

In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

Question	Yes	No
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 ☐
If so, furnish particulars:		
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 ☐
If so, furnish particulars:		
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 ☐
If so, furnish particulars:		
Question	Yes	No
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 ☐
If so, furnish particulars:		
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 ☐
If so, furnish particulars:		

Contractor

Witness 1

Employer

Witness 1

CERTIFICATION DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

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

Contractor

Witness 1

Employer

Witness 1

CERTIFICATE OF INDEPENDENT BID DETERMINATION**MBD 9**

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.

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.

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.

CERTIFICATION 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:

(Name of Bidder)

Contractor

Witness 1

Employer

Witness 1

I have read and I understand the contents of this Certificate;

I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;

I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;

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;

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

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.

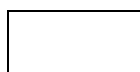
In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:

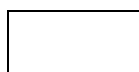
- Prices,
- geographical area where product or service will be rendered (market allocation)
- methods, factors or formulas used to calculate prices;
- the intention or decision to submit or not to submit, a bid;
- the submission of a bid which does not meet the specifications and conditions of the bid; or
- bidding with the intention not to win the bid.

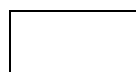
In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.

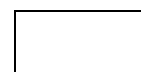
The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

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.


Contractor


Witness 1


Employer


Witness 2

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

Contractor

Witness 1

Employer

Witness 1

CERTIFICATE OF NON-COLLUSIVE TENDER	A
--	----------

1. IN THE CASE OF A SINGLE CONSTRUCTION CONCERN:

I/We certify that this is a bona fide tender.

I/We also certify that I/We have not done and I/We undertake not to do any of the following at any time before the hour and date specified for the closure of submission of tenders for this contract.

- a) Fix or adjust the amount of this tender by or under or in accordance with any agreement or arrangement with any other person;
- b) communicate to a person other than the person calling for these tenders the amount or approximate amount of the proposed tender, except when the confidential disclosure of the approximate amount of the tender is necessary to obtain the insurance-premium quotations required for preparation of the tender;
- c) cause or induce any other person to communicate to me/us the amount or approximate amount of any rival tender for this contract;
- d) enter into any agreement or arrangement with any other person to induce him to refrain from tendering for this contract, or to influence the amount of any tender or the conditions of any tender to be submitted, nor cause or induce any other person to enter into any such agreement or arrangement;
- e) offer or pay or give or agree to pay or to give any sum of money or valuable consideration directly or indirectly to any person for doing or having done or causing or having caused to be done in relation to any tender or proposed tender for this contract, any action similar to those described above.

In this certificate the term "person" includes any persons, body of persons or association, whether corporate or not, and the term "agreement or arrangement" includes any agreement or arrangement, whether formal or informal and whether legally binding or not.

CERTIFICATION

Company Name

Full Name

Capacity

Signature

Date

Contractor

Witness 1

Employer

Witness 1

2. IN THE CASE OF A CONSORTIUM OF CONSTRUCTION CONCERNS:

We certify that this is a bona fide tender.

We also certify that we have not done and we undertake not to do any of the following at any time before the hour and date specified for the closure of submission of tenders for this contract:

- a) Fix or adjust the amount of this tender by or under or in accordance with any agreement or arrangement with any person outside this consortium;
- b) communicate to a person outside this consortium other than the person calling for these tenders, the amount or approximate amount of the proposed tender, except when the confidential disclosure of the approximate amount of the tender is necessary to obtain insurance premium quotations required for preparation of the tender;
- c) cause or induce any person outside this consortium to communicate to us the amount or approximate amount of any rival tender for this contract.
- d) enter into any agreement or arrangement with any person outside this consortium to induce him to refrain from tendering for this contract, or to influence the amount of any tender or the conditions of any tender to be submitted, nor cause or induce any person outside this consortium to enter into any such agreement or arrangement;
- e) offer or pay or give or agree to give any sum of money or valuable consideration directly or indirectly to any person outside this consortium for doing or having done or causing or having caused to be done in relation to any tender or proposed tender for this contract, any action similar to those described above.

In this certificate the term "person" includes any persons, body of persons or association, whether corporate or not, the term "agreement or arrangement" includes any agreement or arrangement, whether formal or informal and whether legally binding or not, and the term "person outside this consortium" means, when the consortium is a partnership, a person other than a partner or an employee of a partner or the partnership, or when the consortium is a company, a person other than a person or company holdings shares in the consortium, or any employee of such a person, company or the consortium.

CERTIFICATION

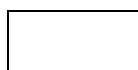
Company Name

Full Name

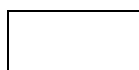
Capacity

Signature

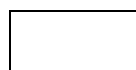
Date



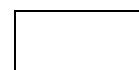
Contractor



Witness 1



Employer



Witness 2

CERTIFICATE OF AUTHORITY FOR SIGNATORY	B
---	----------

Signatory for companies shall confirm their authority thereto by attaching a duly signed and dated copy of the relevant resolution of the boards of directors to this form.

PROJECT NAME: **CONSTRUCTION OF BOSHAKGE BRIDGE**

CONTRACT NUMBER: **GLM009/2026**

By resolution of the board of directors passed at a meeting held on
the

(Date)

at

(Place)

Mr/Mrs

, whose signature appears below, has been duly authorised to sign all documents in connection with the above-mentioned

Tender and any Contract that may arise there from on behalf of (name of Tenderer in block capitals)

SIGNED ON BEHALF OF THE COMPANY:

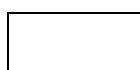
IN HIS/HER CAPACITY AS:

DATE:

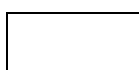
SIGNATURE OF SIGNATORY:

WITNESSES: 1.

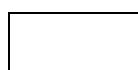
WITNESSES: 2.



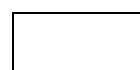
Contractor



Witness 1



Employer



Witness 1

CERTIFICATE OF BIDDER'S VISIT TO THE SITE	C
--	----------

This is to Certify that, I

Name of Firm

Postal address

Physical address

Telephone

Fax

Engineer's Representative

Date of Site Visit

I further certify that I have made myself familiar with all local conditions likely to influence the work & the cost thereof, that I am satisfied with the description of the work and the explanations given by the said Engineer's Representative and that I understand perfectly the work to be done, as specified and implied, in the execution of this contract.

TENDERER'S REPRESENTATIVE:

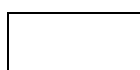
(Signature)

(Name)

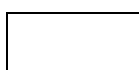
EMPLOYER'S REPRESENTATIVE:

(Signature)

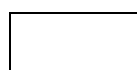
(Name)



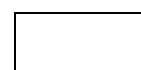
Contractor



Witness 1



Employer



Witness 1

JOINT VENTURE DISCLOSURE FORM	D
--------------------------------------	----------

GENERAL

- i. All the information requested must be filled in the spaces provided. If additional space is required, additional sheets may be used and attached to the original documents.
- ii. A copy of the joint venture agreement must be attached to this form, in order to demonstrate the Affirmable, Joint Venture Partner's share in the ownership, control, management responsibilities, risks and profits of the joint venture, the proposed joint venture agreement must include specific details relating to:
 - a) the contributions of capital and equipment
 - b) work items to be performed by the Affirmable Joint Venture Partner's own forces
 - c) work items to be performed under the supervision of the Affirmable Joint Venture Partner.
- iii. Copies of all written agreements between partners concerning the contract must be attached to this form including those, which relate to ownership options and to restrictions/limits regarding ownership and control.
- iv. ABE partners must complete ABE Declaration Affidavits.
- v. The joint venture must be formalised. All pages of the joint venture agreement must be signed by all the parties concerned. A letter/ notice of intention to formalise a joint venture once the contract has been awarded will not be considered.
- vi. Should any of the above not be complied with, the joint venture will be deemed null and void and will be considered non-responsive.

1.

JOINT VENTURE PARTICULARS

a) Joint Venture Name

b) Postal address

c) Physical address

d) Telephone

e) Fax

Contractor

Witness 1

Employer

Witness 1

2.

IDENTITY OF EACH NON-AFFIRMABLE JOINT VENTURE PARTNER

2.1 a) Name of Firm

Postal address

Physical address

Telephone

Fax

Contact person for matters pertaining to Joint Venture Participation Goal requirements:

2.2 b) Name of Firm

Postal address

Physical address

Telephone

Fax

Contact person for matters pertaining to Joint Venture Participation Goal requirements:

(Continue as required for further non-Affirmable Joint Venture Partners)

Contractor



Witness 1



Employer



Witness 1

3.

IDENTITY OF EACH AFFIRMABLE JOINT VENTURE PARTNER

3.1 a) Name of Firm

Postal address

Physical address

Telephone

Fax

Contact person for matters pertaining to Joint Venture Participation Goal requirements:

3.2 b) Name of Firm

Postal address

Physical address

Telephone

Fax

Contact person for matters pertaining to Joint Venture Participation Goal requirements:

(Continue as required for further Affirmable Joint Venture Partners)

4.

DESCRIPTION OF THE ROLES OF THE AFFIRMABLE JOINT VENTURE PARTNERS IN THE JOINT VENTURE

Contractor

Witness 1

Employer

Witness 1

5. OWNERSHIP OF THE JOINT VENTURE

- a) Affirmable Joint Venture Partner ownership percentage(s) _____ %
- b) Non-Affirmable Joint Venture Partner ownership percentage(s) _____ %
- c) Affirmable Joint Venture Partner percentages in respect of*

- (i) Initial Profit and Loss Sharing _____
- (ii) Initial capital contribution in Rand _____

 (*Brief descriptions and further particulars should be provided to clarify percentages).

- (iii) Anticipated on-going Capital Contributions in Rands _____

- (iv) contributions of equipment - specify types, quality, and quantities of equipment) to be provided by each partner _____

6. RECENT CONTRACTS EXECUTED BY PARTNERS IN THEIR OWN RIGHT AS PRIME CONTRACTORS OR AS PARTNERS IN OTHER JOINT VENTURES

	NON-AFFIRMABLE JOINT VENTURE PARTNERS	PROJECT NAME
a)		
b)		
c)		
d)		

	AFFIRMABLE JOINT VENTURE PARTNERS	PROJECT NAME
a)		
b)		
c)		
d)		

 Contractor

 Witness 1

 Employer

 Witness 1

7. CONTROL AND PARTICIPATION IN THE JOINT VENTURE

(Identify by name and firm those individuals who are, or will be, responsible for, and have authority to engage in the relevant management functions and policy and decision making, indicating any limitations in their authority e.g. co-signature requirements and Rand limits).

(a) Joint Venture Cheque Signing

(b) Authority to enter into Contracts on behalf of the Joint Venture

(c) Signing, Co-Signing and/or Collateralising of Loans

(d) Acquisition of Lines of Credit

(e) Acquisition of Performance Bonds

(f) Negotiating and Signing Labour Agreements

Contractor

Witness 1

Employer

Witness 1

8. MANAGEMENT OF CONTRACT PERFORMANCE

(Fill in the name and firm of the responsible person).

- (a) Supervision of field operations

.....

(b) Major purchasing

.....

(c) Estimating

.....

(d) Technical management

.....

9. MANAGEMENT AND CONTROL OF JOINT VENTURE

- (a) Identify the “managing partner”, if any,

.....

.....

- (b) What authority does each partner have to commit or obligate the other to financial institutions, insurance companies, suppliers, subcontractors and/or other parties participating in the execution of the contemplated works?

.....

.....

.....

.....

- (c) Describe the management structure for the Joint Venture's work under the contract

MANAGEMENT FUNCTION / DESIGNATION	NAME	PARTNER*

(Fill in “ex Affirmable Joint Venture Partner” or “ex non-Affirmable Joint Venture Partner”).

Contractor

Witness 1

Employer

Witness 1

10. PERSONNEL

- (a) State the approximate number of operative personnel (by trade/function/discipline) needed to perform the Joint Venture work under the Contract.

TRADE/FUNCTION/ DISCIPLINE	NUMBER EX AFFIRMABLE JOINT VENTURE PARTNERS	NUMBER EX NON-AFFIRMABLE JOINT VENTURE PARTNERS

(Fill in "ex Affirmable Joint Venture Partner" or "ex non-Affirmable Joint Venture Partner").

- (b) Number of operative personnel to be employed on the Contract who are currently in the employ of partners.

- (i) Number currently employed by Affirmable Joint Venture Partners

- (ii) Number currently employed by the Joint Venture

- (c) Number of operative personnel who are not currently in the employ of the respective partner and will be engaged on the project by the Joint Venture

- (d) Name of individual(s) who will be responsible for hiring Joint Venture employees

- (e) Name of partner who will be responsible for preparation of Joint Venture payrolls

11. CONTROL AND STRUCTURE OF THE JOINT VENTURE

Briefly describe the manner in which the Joint Venture is structured and controlled.

Contractor

Witness 1

Employer

Witness 1

The undersigned warrants that he/she is duly authorised to sign this Joint Venture Disclosure Form and affirms that the foregoing statements are true and correct and include all material information necessary to identify and explain the terms and operations of the Joint Venture and the intended participation of each partner in the undertaking.

The undersigned further covenants and agrees to provide the Employer with complete and accurate information regarding actual Joint Venture work and the payment therefore, and any proposed changes in any provisions of the Joint Venture agreement, and to permit the audit and examination of the books, records and files of the Joint Venture, or those of each partner relevant to the Joint Venture, by duly authorised representatives of the Employer.

Signature

On behalf of

Name

Address

Telephone

Date

Signature

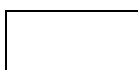
On behalf of

Name

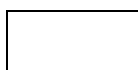
Address

Telephone

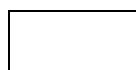
Date



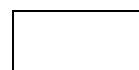
Contractor



Witness 1



Employer



Witness 2

RECORD OF ADDENDA TO TENDER DOCUMENTS

E

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:

[illegible]

CERTIFICATION

Company Name

Full Name

Capacity

Signature

Date

Contractor

Witness 1

Employer

Witness 1

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.

[illegible]

Company Name

Full Name

Capacity

Signature

Date _____

Page 10

Page 10

1

Witness 1

ALTERATIONS BY TENDERER

G

Should the Tenderer desire to make any departure or modification to the General Conditions of Contract, Special Conditions of Contract, Specifications, Schedule of Quantities or Drawings, or to qualify his Tender in any way, he shall set out his proposals clearly hereunder, or alternatively, state them in a covering letter attached to his Tender and referred to hereunder, failing which the Tender will be deemed to be unqualified.

[illegible]

CERTIFICATION

Company Name

Full Name

Capacity

Signature

Date

1

Contractor

11

Witness 1

1

Employer

10

Witness 1

SCHEDULE OF SUBCONTRACTORS	H
----------------------------	---

This table is **NOT TO BE USED** to capture SMME Subcontractors/Suppliers contributing towards the SMME project goal

SMME COMPANIES TO BE USED AS SUB-CONTRACTORS / SUPPLIERS MUST BE CAPTURED UNDER FORM:
RDP 2 (E) EMPLOYMENT OF SMME's

We notify you that it is our intention to employ the following Subcontractors for work in this contract.

If we are awarded a contract, we agree that this notification does not change the requirement for us to submit the names of proposed Subcontractors in accordance with requirements in the contract for such appointments. If there are no such requirements in the contract, then your written acceptance of this list shall be binding between us.

[illegible]

CERTIFICATION

Company Name

Full Name

Capacity

Signature

Date

11

Contractor

1

Witness 1

1

Employer

11

Witness 1

SCHEDULE OF PLANT AND EQUIPMENT

1

The Bidder shall insert in the Schedule hereunder, a list of the major plant and equipment he proposes to use on this Contract. Failure to complete this schedule will be taken to indicate that Bidder does not have access to adequate plant and equipment.

[illegible]

Equipment not owned by the Bidder must be qualified as hire, on loan, etc.

CERTIFICATION

Company Name

Full Name

Capacity

Signature

Date

Contractor

Witness 1

Employer

Witness 1

ORGANOGRAM AND CURRICULUM VITAE OF KEY PERSONNEL	J
---	----------

Tenderer to supply an organogram for the management of the contract and include signed curricula vitae of key personnel. These curricula vitae shall provide evidence of relevant experience of the key staff in the organogram. The personnel included here shall be used on the project unless otherwise agreed to by the engineer.

KEY PERSONNEL

ITEM	DESIGNATION	NAME OF PERSONNEL	YEARS OF EXPERIENCE
1	Contracts Manager		
2	Site Agent		
3	General Foreman		
4	Health and Safety Officer		
5	LIC Manager		

**** Please refer to the required Qualification under the Functionality Criteria.**

NOTE: THE TENDERER SHOULD PROVIDE APPOINTMENT LETTERS OR SWORN AFFIDAVIT AS EVIDENCE THAT THE ABOVE PERSONNEL IS EMPLOYED BY THE FIRM. THE APPOINTED PERSONNEL MUST SIGN BOTH DOCUMENT

CERTIFICATION

Company Name

Full Name

Capacity

Signature

Date

Contractor

Witness 1

Employer

Witness 1

SCHEDULE OF TENDERER'S EXPERIENCE

K

Bidders must furnish hereunder details of similar works/service, which they have satisfactorily completed in the past.

[illegible]

Capacity

Date

Full Name

Signature

Contractor

Witness 1

Employer

Witness 1

PROJECT PROGRAMME AND METHOD STATEMENT

L

TENDERER MUST PROVIDE A PROJECT PROGRAMME OF WORKS, USING ACCEPTABLE PROJECT MANAGEMENT SOFTWARE, THE PROGRAMME OF WORKS MUST CONTAIN SUFFICIENT DETAIL TO COVER THE VARIOUS FACETS OF THE WORK.

THIS PROGRAMME OF WORKS IS TO BE SUPPORTED BY A METHOD STATEMENT INDICATING THE TENDERER'S PROPOSED WORK PLAN FOR THE CONSTRUCTION OF THE WORKS.

THE PROGRAMME OF WORKS IS TO BE APPROVED BY THE ENGINEER UPON APPOINTMENT

CERTIFICATION

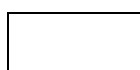
Company Name

Full Name

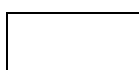
Capacity

Signature

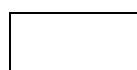
Date



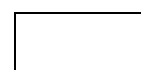
Contractor



Witness 1



Employer



Witness 2

SCHEDULE OF ESTIMATED MONTHLY EXPENDITURE	M
--	----------

The tenderer shall state his estimated value of the work to be completed every month, based on his preliminary programme and his tendered unit rates, in the table below. The amounts for contingencies and contract price adjustment shall not be included.

NO.	MONTH	VALUE (ALL INCLUSIVE)
1		R
2		R
3		R
4		R
5		R
6		R
7		R
8		R
9		R
10		R
11		R
12		R
TOTAL: R.....		(EXCLUDING CONTINGENCIES AND CONTRACT PRICE ADJUSTMENT)

CERTIFICATION

.....
Company Name

.....
Full Name

.....
Capacity

.....
Signature

.....
Date

.....
Contractor

.....
Witness 1

.....
Employer

.....
Witness 1

CONTRACTOR'S ESTABLISHMENT ON SITE**0**

The combined extended total tendered for Section 1300 for the contractor's general obligations; i.e.

- (a) Fixed obligations
- (b) Value-related obligations
- (c) Time-related obligations

shall not exceed a maximum of 15 % of the tender sum (excluding VAT).

Total tendered for Section 1300 expressed as a percentage of the tender sum (excluding VAT) = %

CERTIFICATION

.....
Company Name

.....
Full Name

.....
Capacity

.....
Signature

.....
Date

Contractor

Witness 1

Employer

Witness 1

RATES FOR SPECIAL MATERIALS	P
-----------------------------	---

The rates and prices for the special materials shall be furnished by the contractor, which rates and prices shall exclude VAT but shall include all other obligatory taxes and levies.

The base month is September (the month prior to the month in which the closing date of the tender falls)

[illegible]

When called upon to do so, the contractor shall substantiate the above rates or prices with acceptable documentary evidence from the applicable suppliers.

CERTIFICATION

Company Name

Full Name

Capacity

Signature

Date

1

Contractor

1

Witness 1

1

Employer

10

Witness 1

SCHEDULE OF LOCAL LABOUR CONTENT	Q
---	----------

The Tenderer must complete the table below to reflect the labour force anticipated to be employed on this contract, including labour employed by sub-contractors.

The specified target value is **10%**.

Note: 100% of this labour content shall be from the LOCAL COMMUNITY where Local Community means those in the immediate vicinity of the project. The contractor's own skilled personnel will not be counted towards the said 100%.

TYPE OF LABOUR	MAN-HOURS	MINIMUM WAGE RATE	TOTAL WAGE COST (VAT EXCLUSIVE)
Permanent Labour			
Temporary Labour			
SM ME/HDI's Labour			
TOTAL			
PERCENTAGE			

Notes to Tenderer:

(1) Labour is defined as hourly paid personnel including the CLO.

CERTIFICATION

Company Name

Full Name

Capacity

Signature

Date

Contractor

Witness 1

Employer

Witness 1

ATTACHED ANNEXURES	
ANNEXURE 1	COMPANY PROFILE
ANNEXURE 2	COMPANY REGISTRATION CERTIFICATE (CIPC CK)
ANNEXURE 3	CERTIFIED COPIES OF DIRECTORS'S IDENTITY DOCUMENT
ANNEXURE 4	TAX CLEARANCE CERTIFICATE & SARS TCP PIN
ANNEXURE 5	B-BBEE CERTIFICATE
ANNEXURE 6	CENTRAL SUPPLIER DATABASE (CSD) REPORT
ANNEXURE 7	CONSTRUCTION INDUSTRY DEVELOPMENT BOARD (CIDB) GRADING CERTIFICATE
ANNEXURE 8	WORKMAN'S COMPENSATION REGISTRATION (COIDA)
ANNEXURE 9	AUTHORITY OF SIGNATORY (UNDER COMPANY LETTER HEAD)
ANNEXURE 10	MUNICIPAL RATES & TAXES (PROOF OF ADDRESS)
ANNEXURE 11	3 YEAR AUDITED FINANCIAL STATMENTS
ANNEXURE 12	COMPANY EXPERIENCE (APPOINTMENT LETTERS & COMPLETION CERTIFICATES)
ANNEXURE 13	FINANCIAL CAPACITY (BANK RATING LETTER)
ANNEXURE 14	ORGANOGRAM OF PROJECT TEAM
ANNEXURE 15	CV'S OF KEY PERSONNEL
ANNEXURE 16	PLANT SCHEDULE
ANNEXURE 17	CONSTRUCTION METHOD
ANNEXURE 18	PROGRAM OF WORKS
ANNEXURE 19	JOINT VENTURE AGREEMENT
ANNEXURE 20	OTHER

Contractor

Witness 1

Employer

Witness 1

GREATER LETABA MUNICIPALITY

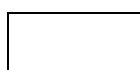


CONSTRUCTION OF BOSHAKGE BRIDGE

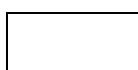
PROJECT NO: GLM009/2026

THE CONTRACT

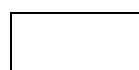
- PART C1 : AGREEMENT AND CONTRACT DATA**
- PART C2 : PRICING DATA**
- PART C3 : SCOPE OF WORK**
- PART C4 : SITE INFORMATION**
- PART C5 : ANNEXURES**



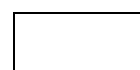
Contractor



Witness 1



Employer



Witness 2

GREATER LETABA MUNICIPALITY



CONSTRUCTION OF BOSHAKGE BRIDGE

PROJECT NO: GLM009/2026

PART C1: AGREEMENT AND CONTRACT DATA

--

Contractor

--

Witness 1

--

Employer

--

Witness 1

FORM OF OFFER AND ACCEPTANCE

OFFER

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

CONTRACT NO.: GLM009/2026 - CONSTRUCTION OF BOSHAKGE BRIDGE

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

By the representative of the tenderer, deemed to be duly authorized, signing this part of the 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 VALUE ADDED TAX IS (CONTRACT PRICE)

.....
(in words)

R
(in figures)

The Contract Amount (Contract Value) of the project shall be the amount as written on the Form of Offer (as above), This Amount shall overwrite any other amount or clause on the Pricing Schedule, Pricing Instructions or any other instruction pertained in the Bid Document. Should the Rates on the Pricing Schedule not equate to the value on the Form of Offer, the Rates should be amended so that they equate to the value on the Form of Offer.

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.

FOR THE TENDERER:

Signature _____ Date _____

Full Names _____

Capacity _____

Name of Organization _____

Address of Organization _____

Signature of Witness _____ Date _____

Name of Witness _____

Contractor

Witness 1

Employer

Witness 1

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 : Site information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C4 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, which must be signed by the authorised representative(s) of both parties.

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 at, or just after, the date this agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one copy of the fully signed original document, including the schedule of deviations (if any). Unless the tenderer (now contractor) within five days of the date of such receipt notifies the employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

FOR THE EMPLOYER - GREATER LETABA MUNICIPALITY

Signature _____ Date _____

Full Names _____

Capacity _____

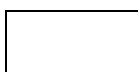
Municipality Address 44 Botha Street

Modjadjiskloof

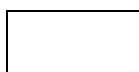
0835

Signature of Witness _____ Date _____

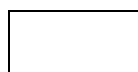
Name of Witness _____



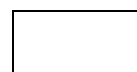
Contractor



Witness 1



Employer



Witness 1

SCHEDULE OF DEVIATIONS

The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender,

A Tenderer's covering letter shall not be included in the final contract document. Should any matter in such, letter, which constitutes a deviation as aforesaid become the subject of agreements reached during the process of, offer and acceptance, the outcome of such agreement shall be recorded here,

Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here,

Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final Contract Document,

1 Subject _____

Details _____

2 Subject _____

Details _____

3 Subject _____

Details _____

By the duly authorised representatives signing this schedule of deviations, the employer and the tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance.

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

Contractor

Witness 1

Employer

Witness 1

FOR THE TENDERER

Signature

Date

Full Names

Capacity

Name of Organization

Address of Organization

Signature of Witness

Date

Name of Witness

FOR THE EMPLOYER

Signature

Date

Full Names

Capacity

Addressed to

Municipal Manager (Greater Letaba Municipality)

Address of Organization

44 Botha Street

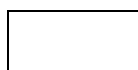
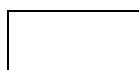
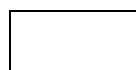
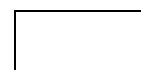
Modjadjiskloof

0835

Signature of Witness

Date

Name of Witness

*Contractor**Witness 1**Employer**Witness 1*

CONFIRMATION OF RECEIPT

The Tenderer, (now Contractor), identified in the Offer part of this Agreement hereby confirms receipt from the Employer, identified in the Acceptance part of this Agreement, of one fully completed original copy of this Agreement, including the Schedule of Deviations (if any) today:

The _____ (Day) of _____ (Month) _____ (Year)
 At _____ (Place) _____

FOR THE TENDERER

Signature _____ Date _____

Full Names _____

Capacity _____

Name of Organization _____

Address of Organization _____

Signature of Witness _____ Date _____

Name of Witness _____

*Contractor**Witness 1**Employer**Witness 1*

CONTRACT DATA

CONDITIONS OF CONTRACT

The Conditions of Contract are the *General Conditions of Contract for Construction Works Third Edition (2015)* published by the South African Institution of Civil Engineering (SAICE). Copies of these conditions of contract may be obtained from the South African Institute of Civil Engineering **WWW.SAICE.ORG.ZA**.

Each item below cross-references a clause in the *General Conditions of Contract for Construction Works Third Edition (2015)*

PART 1: DATA PROVIDED BY THE EMPLOYER

Clause	Data
1.1.1.5	Clause 1.1.1.5 is replaced by the following: "Commencement date" means the date the Site is Handed Over to the Contractor
1.1.1.13	The defects liability period shall be 12 months , commencing on the day the Completion Certificate is issued.
1.1.1.14	The Project will be implemented in multi-year approach, with the total duration of 12 months (total of three financial years)
1.1.1.15	The Employer is the GREATER LETABA MUNICIPALITY .
1.1.1.16	The Employer's Agent is MAJOR QUALITY INVESTMENTS , represented by Mr R Mamuremi (Pr. Eng. Tech)
1.1.1.26	The Pricing Strategy is Re-measurable Contract.
1.2.1	The Employer's (GREATER LETABA MUNICIPALITY) address for receipt of communications is: 44 Botha Street Modjadjiskloof 0835 Tel:015 309 9246 Fax:015 309 9419
1.2.1	The Employer's Agent's (MAJOR QUALITY INVESTMENTS) address for receipt of communication is: Stand 5715 Hemlock Waterberg Field Estate Kosmodal Centurion Pretoria 0157 Tel : 073 4054 343 E-mail : info@majorquality.co.za
3.2.3	The Employer's Agent is required to obtain specific approvals from the employer for the following: • Approval of Extension of Time; • Approval of Additional Costs; • Approval of Variation Orders; • Approval of Penalties; • Approval for the utilization of Contingencies.
4.11.1	Curriculum Vitae's of the following Competent Employees must be approved by the Employer's Agent: • Contracts Manager (refer to Clause 4.12.2) • Site Agent • Safety Officer
5.3.1.	The Works are to be commenced within fourteen (14) Date of the Site Hand-Over Meeting (Commencement Date).

Contractor

Witness 1

Employer

Witness 1

5.3.1.	The documentation required before commencement with Works are: • Performance Guarantee • Liability Insurance • Health & Safety Plan (OHS File) • Curriculum Vitae of Contractor 's Key Personnel for the Employer's Agent's approval • Initial Programme of Works with associated Cash Flow & Labour Schedule															
5.3.2.	The said Documents must be submitted and approved within 14 Days after the Commencement Date															
5.8.1	Contractual Non-Working Times for the Project include the Following • Sundays • South African Gazetted Public Holidays • Construction Break (Year-End Break) as determined by South African Forum of Civil Engineering Contractors (SAFCEC) • Including all foreseeable statutory declared election days															
5.13.1	The penalty for delay is R 5 000.00 per day or part thereof, including special or non-working days.															
5.16.3	The latent defect liability period is 10 years after the date of the final approval certificate															
6.2.1	The Guarantee is to contain the same wording as indicated in the document included under clause C1.3															
6.2.1	The amount of the Guarantee must be 10% of the Contract Price.															
6.5.1.2.3	Profit on Daywork allowances as tendered in Bill of Quantities are limited to materials at cost plus 15%.															
6.8.2	The value of payment certificates is to be adjusted in accordance with the Contract Price Adjustment Schedule, where $(1 - x) \left[\frac{aL_t}{L_o} + \frac{bP_t}{P_o} + \frac{cM_t}{M_o} + \frac{dF_t}{F_o} - 1 \right]$ The value of "x" is 0,10 The values of the co-efficient are: <table><tr><td>New Road Construction</td><td>Rehabilitation</td><td>Concrete Work (major structures only)</td></tr><tr><td>a = 0,20</td><td>0,20</td><td>0,15</td></tr><tr><td>b = 0,40</td><td>0,35</td><td>0,20</td></tr><tr><td>c = 0,25</td><td>0,35</td><td>0,55</td></tr><tr><td>d = 0,15</td><td>0,10</td><td>0,10</td></tr></table> "L" is the "Labour Index" and shall be the "Consumer Price Index" for the urban area nearest to the Site "P" is the "Plant Index" and shall be the "Civil Engineering Plant Index" "M" is the "Materials Index" and shall be the "Civil Engineering Materials Index" "F" is the "Fuel Index" and shall be the "Diesel at wholesale level for the Area" The suffix "o" denotes the basic indices applicable to the base month as stated in the Contract Data, The suffix "t" denotes the current indices applicable to the month in which payment certificate relates. The indices published monthly by the South African Forum of Civil Engineering Contractors (SAFCEC). If the index relevant to any particular certificate is not known at the time when the certificate is prepared, the Engineer shall estimate the value of such index. Any correction, which may be necessary when the correct indices become known, shall be made by the Engineer in subsequent payment certificates. The urban area nearest the site is Modjadjiskloof The base month is December 2024. (or the month prior to the month in which the closing date of the tender falls)	New Road Construction	Rehabilitation	Concrete Work (major structures only)	a = 0,20	0,20	0,15	b = 0,40	0,35	0,20	c = 0,25	0,35	0,55	d = 0,15	0,10	0,10
New Road Construction	Rehabilitation	Concrete Work (major structures only)														
a = 0,20	0,20	0,15														
b = 0,40	0,35	0,20														
c = 0,25	0,35	0,55														
d = 0,15	0,10	0,10														
6.8.3	Price adjustments for variations in the costs of special materials are allowed.															
6.10.1.1	Minimum amount of interim payment certificate is R 500 000.00															
6.10.1.5	The Contractor will only be permitted to claim payment for up to a limit of 80% for Material On-Site															
6.10.3	The percentage retention is 10% of the certified work done (including VAT).															

Contractor

Witness 1

Employer

Witness 1

6.10.3	The limit of retention money is 10% of the certified work done (including VAT).
8.6.1.3	The Limit of the liability insurance required should not be less than the contract amount.
10.5.1/2	Disputes are to be referred to ad-hoc adjudication
10.7	Disputes are to be referred for final settlement to arbitration .
	Payment for works identified in the Scope of Works as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the Scope of Work. Any payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict
	The Contractor's payment invoices shall be accompanied by labour information for the corresponding period in a format specified by the employer. If the contractor chooses to delay submitting payment invoices, labour returns shall still be submitted as per frequency and timeframe stipulated by the Employer. The contractor's invoices shall not be paid until all pending labour information has been submitted.
	The current Ministerial Determination (also downloadable at www.epwp.gov.za), Expanded Public Works Programmes, issued in terms of the Basic Condition of Employment Act of 1997 by the Minister of Labour in Government Notice, shall apply to works described in the scope of work as being labour-intensive and which are undertaken by unskilled workers.

PART 1: DATA PROVIDED BY THE CONTRACTOR

Clause	Data
	The contractor is :
	The contractor's address for receipt of communication is: Telephone: Facsimile:..... E-mail: Address:
	The Works shall be completed within Months as proposed by the contractor.
	The percentage allowances to cover all charges for the contractor's and subcontractor's profits, timekeeping, clerical work, insurance, establishment, superintendence and the use of hand tools is% (Maximum 15%).

Contractor

Witness 1

Employer

Witness 1

PERFORMANCE GUARANTEE

(Not to be completed at Tender Stage)

To be used in conjunction with the General Conditions of Contract for Construction Works, Third Edition, 2015:

Description of Contract: **CONSTRUCTION OF BOSHAKGE BRIDGE**

Contract Number: **GLM009/2026**

GUARANTOR DETAILS AND DEFINITIONS

"Guarantor" means: (Name of Firm)

Physical Address:

Postal Address:

"Employer" means: **GREATER LETABA MUNICIPALITY**

"Contractor" means: (Name of Firm)

"Engineer" means: **MAJOR QUALITY INVESTMENTS**

"Works" means: Permanent works together with temporary works

"Site" means: The land and other places, made available by the Employer for the purpose of the contract, on under over in or through which the works are to be executed or carried out.

"Contract" means: The Agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the parties.

"Contract Sum" means: The Contract Amount as seen on the Form of Offer (All Inclusive)

"Guaranteed Sum" means: The Amount of the Guarantee (All Inclusive)

"Expiry Date" means: This Guarantee shall expire upon the issue of the Final Completion Certificate issued by The Employer signed by the Director of Engineering Services, and confirmed in writing by the Engineer.

Engineer issues: Interim Payment Certificates, Final Payment Certificate and the Certificate of Completion of the Works as defined in the Contract.

CONTRACT SUM: _____ (in figures)

(in words)

GUARANTEED SUM: _____ (in figures)

(in words)

Contractor

Witness 1

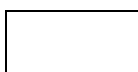
Employer

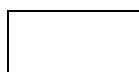
Witness 1

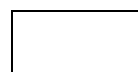
PERFORMANCE GUARANTEE

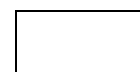
The Guarantor's liability shall be limited to the amount of the Guaranteed Sum.

1. The Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
2. The Guarantor's period of liability shall be from and including the date of issue of this Performance Guarantee and up to and including Expiry Date or the date of issue by the Engineer of the Certificate of Completion of the Works or the date of payment in full of the Guaranteed Sum, whichever occurs first. The Engineer and/or the Employer shall advise the Guarantor in writing of the date on which the Certificate of Completion of the Works has been issued.
3. The Guarantor hereby acknowledges that:
 - 3.1. any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship;
 - 3.2. Its obligation under this Performance Guarantee is restricted to the payment of money.
4. Subject to the Guarantor's maximum liability referred to in 1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.1 to 4.3:
 - 4.1. A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Engineer in an Interim of Final Payment Certificate has not been made in terms of the Contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2;
 - 4.2. A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) days has elapsed since the first written demand in terms of 4.1 and the sum certified has still not been paid;
 - 4.3. A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 4.
5. Subject to the Guarantor's maximum liability referred to in 1, the Guarantor undertakes to pay to the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Performance Guarantee, such demand stating that:
 - 5.1. the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 5; or
 - 5.2. a provisional or final sequestration or liquidation court order has been granted against the Contractor and that the Performance Guarantee is called up in terms of 5; and
 - 5.3. the aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.
6. It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4 and 5 shall not exceed the Guarantor's maximum liability in terms of 1. Where the Guarantor has made payment in terms of 5, the Employer shall upon the date of issue of the Final Payment Certificate submit an expense account to the Guarantor showing how all monies received in terms of this Performance Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Performance Guarantee shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund.
7. Payment by the Guarantor in terms of 4 or 5 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
8. Payment by the Guarantor in terms of 5 will only be made against the return of the original Performance Guarantee by the Employer.
9. The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer may deem fit and the Guarantor shall not have the right to claim his release from this Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.
10. The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
11. This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 2, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.
12. This Performance Guarantee, with the required demand notices in terms of 4 or 5, shall be regarded as a liquid document for the purposes of obtaining a court order.
13. Where the Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.


Contractor


Witness 1


Employer


Witness 1

PERFORMANCE GUARANTEE

SIGNED AT

DATE

GUARANTOR'S SIGNATORY (1)

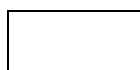
CAPACITY

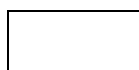
GUARANTOR'S SIGNATORY (2)

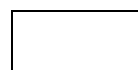
CAPACITY

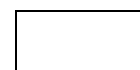
WITNESS SIGNATORY (1)

WITNESS SIGNATORY (2)


Contractor


Witness 1


Employer


Witness 1

OCCUPATIONAL HEALTH & SAFETY AGREEMENT

In Terms of Section 37(2) of the OHS Act (No. 85 OF 1993)

THIS AGREEMENT MADE AT:

(Place)

On The _____ (Day) of _____ (Month) _____ (Year)

BETWEEN

THE CONTRACTOR (THE MANDATARY)

Company Name

Address

Represented By:

Capacity

Signature

Date

Signature of Witness

Date

Name of Witness

AND

GREATER LETABA MUNICIPALITY (THE EMPLOYER)

Address

44 Botha Street

Modjadjiskloof

0835

Represented By:

Capacity

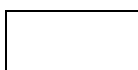
Signature

Date

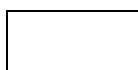
Signature of Witness

Date

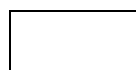
Name of Witness



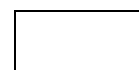
Contractor



Witness 1



Employer



Witness 2

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

The Mandatary shall execute the work in accordance with the contract documents pertaining to this Contract.

This Agreement shall hold good from its commencement date, which shall be the date on which the site is handed over to the Mandatary by an order in writing from the Engineer, to either:

- (a) the date of the final certificate issued in terms of clause 52(1) of the General Conditions of Contract 2015 (hereinafter referred to as "the GCC"), as applicable to this Contract, or
- (b) the date of termination of the contract in terms of clause 55 or clause 56 of the GCC.

The Mandatary declares himself to be conversant with the following:

(a) All the requirements, regulations and standards of the Occupational Health and Safety Act (Act 85 of 1993), hereinafter referred to as "The Act", together with its amendments and with special reference to the following Sections of The Act:

- (i) Section 8: General duties of employers to their employees;
 - (ii) Section 9: General duties of employers and self-employed persons to persons other than employees;
 - (iii) Section 37: Acts or omissions by employees or mandataries; and
 - (iv) Sub-section 37(2) relating to the purpose and meaning of this Agreement.
- (b) The procedures and safety rules of the Employer as pertaining to the Mandatary and to all his subcontractors.

In addition to the requirements of Clause 36 of the General Conditions of Contract and all relevant requirements of the Contract, the Mandatary agrees to execute all the works forming part of this Contract and to operate and utilize all machinery, plant and equipment in accordance with the Act.

The Mandatary is responsible for the compliance with the Act by all his subcontractors, whether or not selected and/or approved by the Employer.


Contractor


Witness 1


Employer


Witness 1

GREATER LETABA MUNICIPALITY



PROJECT NO: GLM009/2026

CONSTRUCTION OF BOSHAKGE BRIDGE

C2. PRICING DATA

C2.1 : PRICING INSTRUCTIONS

C2.2 : BILL OF QUANTITIES

Contractor

Witness 1

Employer

Witness 1

PRICING INSTRUCTIONS

1. GENERAL

The pricing instructions describe the criteria and assumptions which will be assumed in the Contract that the Bidder has taken into account when developing his prices. The Bill of Quantities record the Contractor's rates for providing supplies, services engineering and construction works in accordance with the Scope of Work.

The terms of payment and the provisions for price adjustment, if applicable, are established in the Contract Data. These items are not described in the Pricing Data.

The bidder's obligations in pricing the Bid offer and the Employer's undertakings in the checking and correction of arithmetical errors are dealt with in the Standard Conditions of Bid contained in Annexure C of the South African National Standards SANS 110845-3:2015, as amended in and red in conjunction with the Bid Data.

2. DOCUMENTS MUTUALLY EXPLANATORY

The documents forming the Contract are to be taken as mutually explanatory of one another. The Bill of Quantities forms an integral part of the Contract Documents and shall be read in conjunction with the Bid Data, Contract Data, Scope of Work, Site Information General and Special Conditions of Contract, the Specifications and the Drawings.

3. DEFINITIONS

For the purpose 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 Committee of Land Transport Officials (COLTO) - Standard Specification for Road and Bridge Works for State Authorities (1998).
- Quantity : The number of Unit of work for each item
- Rate : The payment per unit of measurement at which the Bidder Bids to do the work.
- Amount : The product of the quantity and the rate Bided for an item
- Sum : An amount Bided for an item, the extent of which is described in the Schedule of Quantities, the specifications or elsewhere but the quantity of work of which is described in the Schedule of Quantities, the specification or elsewhere but the quantity of work of which is not measured in any units.
- Prime Cost Sum : A sum fixed by the Engineer and entered in the Schedule of Quantities as the net sum provided to cover the cost of specific goods or materials to be supplied under the contract, or the net sum to be paid by the Contract to merchants or others for such articles or materials.¹
- Provisional Sum : A sum of money fixed by the Engineer and entered in the Schedule of Quantities to provide for work not defined at the Bid stage and includes any allowance specifically made for unforeseen contingencies. ¹
- Extra Over : Qualifies an operation (or combination of operation) which is common in a varying degree to a number of other operations and which is scheduled once as "extra over" those other operations in order to avoid a multiplicity of items each reflecting the degree to which the common operations apply. The term "extra

Contractor

Witness 1

Employer

Witness 1

over” invariably denoted double measurement, no deduction being made from one on account of the other.

4. DESCRIPTION

Description in the Bill of Quantities are abbreviated and comply generally with those in the Standardised Specifications. Clause 8 of each Standardised Specification, read together with the relevant clause of the Scope of Work, set out what ancillary or associated activities are included in the rates for the operations specified. Should any requirements of the measurement and payment clause of the applicable Standardised Specification, or the Scope of Work, conflict with the terms of the Bill, the requirements of the Standardised Specification or Scope of Work, as applicable, shall prevail.

5. REFERENCES

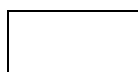
The General Conditions of Contract, the Special Conditions of Contract (if any) the specifications (including the project specification) and the Drawings are to be read in conjunction with the schedule of quantities. Descriptions in the schedule of quantities are abbreviated and the schedule has been drawn up generally in accordance with COLTO Standard Specification for Road and Bridge Works for State Authorities (1998 edition) as amended in the Scope of Works. Should any requirement of measurement and payment clause of applicable Standardised Specification, or the Project Specifications, or the Particular Specification(s) conflict with terms of the schedule or, when relevant, COLTO, the requirement of the Standardised, Project or Particular Specification, as applicable, shall prevail.

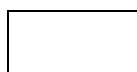
Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance has been made for waste. The prices and rates to be inserted in the schedule of quantities are to be full inclusive prices to the Employer for the work described under the several items, value added tax excluded. Such prices shall cover all costs and expenses that may be required in and for construction of the work described and shall cover the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the quotation is based.

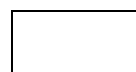
A price or rate is to be entered against each item in the Schedule of Quantities, whether the quantities are stated or not. An item against which no price is entered will be considered to be covered by the other prices or rates in the schedule

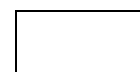
6. UNITS OF MEASUREMENT

mm	=	millimetre
m	=	metre
km	=	kilometre
M ²	=	square metre
M ³	=	cube
m ³ .km	=	cube per kilometre
kg	=	Kilogram
t	=	Ton
%	=	Percentage


Contractor


Witness 1


Employer


Witness 2

7. NET MEASUREMENTS

Unless otherwise state, items are measured net in accordance with the Drawings, and no allowance is made for off-cuts and waste.

8. QUANTITIES

The quantities set out in these Bill of Quantities are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due and not the quantities given in the Bills of Quantities.

The item numbers appearing in the Bill of Quantities refer to the corresponding item numbers in COLTO Standard Specification for Road and Bridge Works for State Authorities (1998 edition)

9. CURRENCY

All rates and sums of money quoted in the Bill of Quantities shall be in Rand and whole cents. Fractions of cent shall be discounted.

10. VALUE ADDED TAX

Valued Added Tax shall be excluded from the rates and sums contracted for the various items of work included in the Bill of Quantities. VAT will be added as a single entry to the summary

11. RATES AND PRICES

General

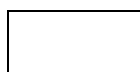
The Contractor must price each item in the Bill of Quantities in Black Ink. Reproduced computer printouts of the Bills of Quantities will not be acceptable.

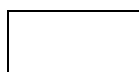
The rates and prices to be inserted in the Bill of Quantities shall cover all the services and incidentals for the prescribed under the several items. Such prices and rates shall cover all costs, and expenses that may be required in and for the execution of the work described, and shall cover the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the Bid is Based, as well as overhead charges and profit. Reasonable prices shall be inserted as these will be used as a basis for assessment of payment for additional work that may have to be carried out.

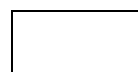
Where the Contractor is required to furnish detailed drawings and designs or other information in terms of the Contract Data, all costs thereof shall be deemed to have been provided for and included in the unit rates and sum amounts contracted for the items scheduled in the Bill of Quantities. Separate additional payments will not be made.

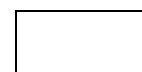
A price or rate is to be entered against each item in the Bill of Quantities, whether the quantities are stated or not. An item against which no price is entered will be considered to be covered by the other prices or rates in the Bill. The Contractor will not be paid for items against which no rate or lump sum has been entered in the Bill of Quantities.

Should the Contractor group number of items and contract 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.


Contractor


Witness 1


Employer


Witness 1

Should the Contractor indicate against any item that compensation for such item is included in another item; the rate for the item included in another item shall be deemed nil.

A submission may be regarded as non-responsive if any rates or lump sums in the Bill of Quantities are, in the opinion of the Employer, unreasonable or out of proportion.

“Rate only” items

The Contractor shall fill in a rate (in the rate column) against all items where the words “rate only” appear in the Amount column, which rate will constitute payment for work which may be done in terms of this item. Such “rate-only” items are used where it is estimated that little or no work will be required under item or where the item is to be considered as an alternative to another item for which a quantity is given.

Arithmetic

Excepting where Sum Amounts are required or where Provisional Sum have been indicated, the Contractor shall enter an applicable rate in the Rate column on the Bill of Quantities for each scheduled item. He shall also enter an appropriate sum in the Amount column for each scheduled item, by determining in the applicable line item the product of the Quantity, the rate shall be binding and the error of extension as entered in the Bid offer will be corrected by the Employer in determining the Contract Price.

Where there is an error in addition, either as a result of other corrections required by this checking process or in the Bidder's addition of prices, such error will be corrected by the Employer in determining the Contract Price.

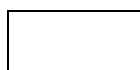
The following Clauses are applicable:

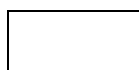
1. “the bidder to adjust tendered rates in line with competitive market rates in the event it is discovered and proven that his/her rates are exorbitant.
2. “Rates only items will be subjected to adjustment, if discovered and proven that such rates are exorbitant”.

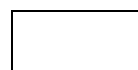
12. VARIATION IN TEXT

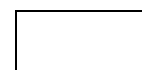
No alteration or addition is to be made in the text of the Bill of Quantities. Should any alteration, erasure or addition be made, it will be recognized; the original working of the Bill of Quantities will be adhered to.

13. Those parts of the contract to be constructed using labour- intensive methods have been marked in the bill of quantities with the letters LI in a separate column or as a prefix or suffix against every item so designated. The works, or parts of the works so designated are to be constructed using labour-intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the scope of works, is a deviation from the contract. The items marked with letters “LI” are not necessarily an exhaustive list of all the activities, which must be done by hand, and this clause does not over-ride any of the requirements in the generic labour-intensive specification in the Scope of Works
14. Where minimum labour intensity is specified by the design the contractor is expected to use their initiative to identify additional activities that can be done labour-intensively In order to comply with the set minimum labour intensity target.


Contractor


Witness 1


Employer


Witness 1

15. Payment for items which are designated to be constructed labour- intensively (either in this schedule or in the scope of works) will not be made unless they are constructed using labour-intensive methods. Any unauthorised use of plant to carry out work, which was to be done labour-intensively will not be condoned, and any works so constructed will not be certified for payment.

BILL OF QUANTITIES

Standard Specifications for Road & Bridge Works for State Authorities - Committee of Land Transport Officials (COLTO)

1200	GENERAL REQUIREMENTS AND PROVISIONS
1300	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATION
1400	HOUSING, OFFICES, AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL
1500	ACCOMMODATION OF TRAFFIC
1700	CLEARING AND GRUBBING
2200	PREFABRICATED CULVERTS
3100	BORROW MATERIAL
3300	MASS EARTHWORKS
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL
3500	STABILIZATION
5100	PITCHING, STONWORK AND PROTECTION AGAINST EROSION
5200	GABIONS
5400	GUARD RAILS
5600	ROAD SIGNS
5700	ROAD MARKINGS
6200	FALSEWORK, FORMWORK AND CONCETE FINISH
6400	CONCRETE FOR STRUCTURES
6600	NO-FINES CONCRETE, JOINTS, BEARINGS, BOLT GROUPS FOE ELECTRIFICATION, PARAPETS AND DRAINAGE STRUCTURES
8100	TESTING OF MATERIALS AND WORKMANSHIP

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Contractor

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Witness 1

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Employer

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Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

SCHEDULE A: BOSHAKGE BRIDGE					PRE-CAST BRIDGE	
ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
1200		SECTION 1200				
		GENERAL REQUIREMENTS AND PROVISIONS				
B12.02		Services				
		(a) Exposure of services				
		(ii) Using hand excavation	m ³	1050		
		(iii) Handling costs and profit in respect to sub-item (ai)	%			
		(b) Relocation of services	Prov sum	1	80 000,00	R80 000,00
		(c) Handling costs and profit in respect of sub-item 12.02 (b) above	%	80 000		
B12.06		Additional survey as required by the Engineer				
		(a) Additional survey as required by the Engineer	Prov. Sum	1	50 000,00	R50 000,00
		(b) Contractor's handling costs, profit and all other charges in respect as to Sub-item B12.06 (a)	%	50 000,00		
12,07		Notices, signs and advertisements				
		(a) Construction notice boards	No	2		
TOTAL CARRIED FORWARD						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
B12.31		Balance brought forward				
		Contractor's Obligations in respect to Local and other Labourers				
		(b) Medical Examinations	Lump Sum	1	15 000,00	R15 000,00
B12.32		Community Liaison Officer				
		(a) Remuneration	month	12	5 000,00	R60 000,00
		(b) Handling costs and profit in respect of sub-item B12.32 (a) above	%	60 000		
B12.04		Provision of an In-Service Student:				
		(a) Appointment of local trainee students for the of the contract	Month	12	3500,00	R42 000,00
		(b) (b) Handling cost and profit in respect of sub item B12.04(a) above	%	42 000		
	PSA 8. 4. 9	Training Obligations				
		a) Training allowance paid for targeted labour and EME or QSE Contractors in terms of formal training	Prov. Sum	1	100000,00	R100 000,00
		b) Overheads, charges and profit on item above	%	100 000		
B12.05		Compensation for environmental control in with the National Environmental Management Act.				
		(a) Nominated sub-consultant for Compliance monitoring of the Enviromental Management Plan by the ECO.	Prov. Sum	1	220000,00	R220 000,00
		(b) Allow a provisionsal sum for borrow pit permit application from DMRE	Prov. Sum	1	140000,00	R140 000,00
		(c) Handling costs and profit in respect of subitem B12.05(a) and (b) above	%	360 000		
B12.06		Compensation for health and safety control in accordance with the Occupational Health and Safety				
		(a) Nominated sub-consultant for Compliance monitoring of the H&S.	Prov Sum	1	300000,00	R300 000,00
		(b) Handling costs and profit in respect of subitem B12.06(a) above	%	300 000		
		(f) Nominated sub-consultant for Social Facilitations	Prov Sum	1	250 000,00	R250 000,00
		(g) Handling costs and profits in respect to sub-item (f)	%	R 250 000,00		
	PSA 8.4.14	Health and Safety Obligations				
		a) Compile Health and Safety Plan and attain approval based on the specifications provided	Sum	1		
		b) Appoint Health and Safety Personnel, including Safety Officer.	Month	12		
		c) Appoint Safety Rep	Month	12	5 000,00	R60 000,00
	13/E23.02	Contractor's time related obligation in respect of the Occupational Health and Safety Act and Construction Regulations	Month	12		
TOTAL SECTION 1200 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

					PRE-CAST BRIDGE	
ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
		SECTION 1300				
1300		CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
13,01		The contractor's general obligations				
		(a) Fixed obligations	l/sum	1		
		(b) Value-related obligations	l/sum	1		
		(c) Time-related obligations	Month	12		
		(d) Suspension By Employer's Agent Cost				
		i) De-establishment	No.	1		
		ii) Re-establishment	No.	1		
TOTAL SECTION 1300 - CARRY FORWARD TO SUMMARY						

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*Contractor**Witness 1**Employer**Witness 1*

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	PRE-CAST BRIDGE	
					RATE	BILL AMOUNT
		SECTION 1400				
1400		HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL				
14,01		Office and laboratory accommodation				
		(b) Offices (interior floor space only)	m ²	15		
		(e) Ablution units	m ²	6		
14,02		Office furniture				
		(a) Chairs				
		(i) quality office desk chairs	No	4		
		(ii) for boardroom, meetings	No	1		
		(c) Desks, complete with drawers and locks	No	4		
		(d) Office tables	No	4		
		(e) Conference tables	No	1		
B14.03		Office fittings, installations and equipment				
		(a) Items measured by number:	PC Sum	1	60 000,00	60 000,00
TOTAL CARRIED FORWARD						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
14,04		Balance brought forward				
		(ii) Handling costs and profits in respect to sub-item B14.03 (a)	%	60 000		
		(b) Prime cost items and items paid for in lump sum				
		(i) The provision of telephone service, including the cost of calls in connection with contract administration	PC Sum	1	15 000,00	R15 000,00
		(iii) Handling costs and profits in respect to sub-item B14.03 (b) (i) and (ii)	%	15 000		
		Carports				
		Carports, as specified, at offices buildings for the Engineers site personnel. Minmum size of each to be 6,0 x 3,0 m				
		Solid roof, not shade netting	No	4		
TOTAL CARRIED FORWARD						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
14,07		Balance brought forward				
		Rented,and other accommodation				
		(a) Provisional sum for providing rented housing, or other accommodation as described in subclause 14.03(c)(ii)	Prov sum	1	100 000,00	100 000,00
14,08		(b) Handling costs and profit in respect of sub-item 14.07(a) above	%	100 000		
		Services				
		(a) Services at offices				-
		(i) Fixed costs	l/sum	1		
		(ii) Running costs	month	12		
TOTAL CARRIED FORWARD						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
14,10		Balance brought forward				
		Provision of photostat / printer facilities				
		(i) A4 and A3 colour facility, for use by contractor and engineer, including full maintenance	Prov sum	1	20000,00	20 000,00
TOTAL SECTION 1400 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

SCHEDULE A: BOSHAKGE BRIDGE				PRE-CAST BRIDGE		
ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
1500		SECTION 1500				
		ACCOMMODATION OF TRAFFIC				
B15.01		Accommodating traffic and maintaining temporary deviations, including flagmen				
		(a) On the road	km	0,5		
		(b) On the cross roads and intersections	No.	2		
		(c) Construction of temporary by-pass structure consisting of prefabricated culverts pipes	No	1		
		Earthworks for temporary deviations				
		(a) Shaping of temporary deviations				
15,02		(ii) double lane	km	0,5		
		(b) Cut and borrow to fill				
		(i) Material to be sourced locally	m³	500		
		Temporary traffic control facilities				
		(a) Flagmen	m/days	528		
		(b) Portable STOP and GO-RY signs	No	4		
		(d) Amber flicker lights	No	10		
15,03						
TOTAL CARRIED FORWARD						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
15,04		Balance brought forward				
		(e) Road signs, R- and TR-series (engineering grade background, size 900mm)	No	4		
		(f) Road signs, TW-series (engineering grade background)	No	4		
		(g) Road signs, STW-, DTG-, and TG-series engineering grade background) , sizes as specified for 40 km / h	m ²	5		
		(h) Delineators (TW401/1) 1000 mm x250 mm				
		(i) Single	No	4		
		(ii) Mounted back to back	No	4		
		(i) Movable barricade / road sign combination	No	4		
		(j) Traffic cones (750 mm high)	Prov. Sum	1	20 000,00	20 000,00
		Relocation of traffic control measures	Lump sum	1	10 000,00	10 000,00
TOTAL CARRIED FORWARD						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
15,05		Balance brought forward				
		Gravelling and repair of temporary deviations and existing gravel shoulder used as temporary deviations				
		(a) Temporary deviations	m ³	250		
15,06		Watering of temporary deviations	kl	175		
15,07		Blading by road grader of				
		(b) Existing roads used as temporary deviations	km-pass	5		
15,10		Accommodation of traffic where the road is constructed as half widths	km			
B15.15 / B16.02		Overhaul				
		(a) Overhaul on material hauled in excess of 1,0 km (ordinary overhaul)	m ³ -km	950		
TOTAL SECTION 1500 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

SCHEDULE A: BOSHAKGE BRIDGE					PRE-CAST BRIDGE	
ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
1700		SECTION 1700				
		CLEARING AND GRUBBING				
17,01		Clearing and grubbing				
		(i) Road reserve areas	ha	3		
		(ii) Temporary bypass	ha	1,5		
17,02		Removal and grubbing of large trees and tree stumps				
		(a) Girth exceeding 1 m up to and including 2 m	No	44		
		(b) Girth exceeding 2 m up to and including 3 m	No	50		
		(c) Girth exceeding 3 m up to and including 4 m	No	22		
TOTAL SECTION 1700 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

SCHEDULE A: BOSHAKGE BRIDGE					PRE-CAST BRIDGE	
ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
2200		SECTION 2200				
		PREFABRICATED CULVERTS				
		Excavation				
		(a) Excavating soft material situated within the following depth ranges below the surface level				
		(i) 0 m up to 1,5 m	m³	3 600		
		(ii) Exceeding 1,5 m and up to 3,0 m	m³	2 000		
		(b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth	m³	50		
		(c) Drainage where no access has been provided	sum	1		
		(d) Dealing with water on the river	Prov Sum	1	150 000,00	150 000,00
		22,02	Backfilling			
	(a) Using the excavated material, including selected backfilling	m³	350			
	(b) Using imported selected material, sourced locally	m³	150			
	(c) Extra over subitem 22.02(a) and (b) for soil cement backfilling (4% of Portland cement by weight)	m³	400			
TOTAL CARRIED FORWARD						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
22,05		Balance brought forward				
		Portal and Rectangular culverts				
		(b) Without prefabricated floor slabs				
		1) 3000mm x 3000mm Class 75S	m	85		
TOTAL CARRIED FORWARD						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
22,07		Balance brought forward				
		(d) Formwork of concrete under subitem 22.07				
		(i) Concrete surface exposed finish Class F1	m ²	45		
		(ii) Concrete surface exposed finish Class F2	m ²	500		
		Cast insitu Concrete and formwork				
		(b) In floor slabs for portal or rectangular culverts, including formwork joints and class U2 surface finish Class 30/19 concrete	m ³	550		
		(d) In inlet and outlet structures, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including class U2 surface finish Class 25/19	m ³	50		
TOTAL CARRIED FORWARD						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
22,1		Balance brought forward				
		Steel reinforcement				
		(a) Mild steel bars	t	15		
		(b) High-tensile steel bars	t	62		
		(c) Welded steel fabric	kg	500		
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 (1,0 km) free-haul distance	m³-km	15 000		
B22.29		Dewatering and keeping dry of culvert excavations	No	1		
TOTAL SECTION 2200 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE					PRE-CAST BRIDGE	
ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
2300		SECTION 2300				
		CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS				
B23.01		Concrete kerbing				
		(a) Edge beams				
		(i) Figure 12 pre cast kerb, edge restraint for paving blocks	m	17		
		(b) SANS 927:2007				
		(iii) Figure 8C	m	200		
		(c) Extra over subitem B23.01 (a) and (b) for excavating and backfilling materials for edge beam and kerbing in base course layer	m ³	60		
TOTAL SECTION 2300 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
3100		SECTION 3100				
		BORROW MATERIALS				
31,01		Excess overburden in borrow pits				
		(i) Borrow Pit No. 1	m ³	2 200		
		(ii) Allowance cost Sum as compensation to owner for royalties for land use gravel for borrow pits	sum	1	10 000,00	10 000,00
		(ii) Handling fee for item 31.01 (ii)	%	10 000		
31,03		Finishing off borrow areas in				
		(a) Hard material	ha	0,3		
		(b) Intermediate material	ha	0,3		
		(c) Soft material	ha	0,3		
TOTAL SECTION 3100 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
3300		SECTION 3300				
		MASS EARTHWORKS				
33,04		Cut to spoil, including free-haul up to 1,0 km				
		(a) Soft excavation	m ³	1 200		
		(b) Intermediate excavation	m ³	750		
		(c) Hard excavation	m ³	75		
33,10		Roadbed preparation and the compaction of the material				
		(b) Compaction to 93% of mod AASHTO density	m ³	600		
33,12		Insitu treatment of roadbed				
		(a) Insitu treatment by ripping, to depth of 150 mm	m ³	600		
		(b) Provision for rockfill	Psum	1	109 500,00	109 500,00
TOTAL SECTION 3300 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
3400		SECTION 3400				
		PAVEMENT LAYERS OF GRAVEL MATERIAL				
B34.14		Pavement layers constructed from gravel				
		(a) Gravel layers - G5 material compacted to (ii) 93% mod AASHTO density, 150mm layer thickness	m ³	4 200		
		(c) Gravel subbase layer - G5 material compacted to (ii) 95% mod AASHTO density, 150mm layer thickness	m ³	600		
TOTAL SECTION 3400 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
3500		SECTION 3500				
		STABILISATION				
35,01		Chemical stabilisation extra over unstabilised compacted layer				
		(b) Base				
		(i) 97% mod AASHTO density, 200 mm	m ³	600		
35,02		Chemical stabilising agent				
		(g) Cement (CEM II (32,5N) or approved similar). Mechanical modification (extra over untreated layer)	t	25		
35,04		Provision and application of water for curing	kl	25		
35,13		Extra over items 35.01 for trial sections	m ³	250		
TOTAL SECTION 3500 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
5100		SECTION 5100				
		PITCHING STONework AND PROTECTION AGAINST EROSION				
51,01		Stone Pitching				
		(c) Grouted stone pitching on a concrete bed(100 thick)	m ²	300		
TOTAL SECTION 5100 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
5200		SECTION 5200				
		GABIONS				
52,01		Foundation trench excavation and backfilling				
		(a) In solid rock	m ²	259		
		(b) In all other classes of material	m ²	259		
52,02		Surface preparation for bedding the gabions	m ²	40		
52,03		Gabions				
		(a) Galvanised gabion boxes,				
		(i) 1,5 m x 1,0 m x 1,0 m size and 80 mm x 100 mm x 2,7 mm diameter galvanised wire mesh	m ³	420		
		(c) Galvanised gabion mattresses				
		(i) 0,3 m deep x 1,0 m x 1,0 m size and 80 mm x 100 mm x 2,5 mm diameter galvanised wire mesh	m ³	108		
52,04		Filter fabric				
		(a) Grade 2				
		(i) Non woven	m ²	250		
TOTAL SECTION 5200 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
5400		SECTION 5400				
		GUARDRAILS				
54,01		Guardrails on timber posts				
		(a) Galvanised	m	60		
54,04		End treatments				
		(d) End treatments in accordance with the drawings where single guardrail sections are used	No	16		
54,05		Additional guardrail posts				
		(a) Timber	No	55		
54,07		Reflective plates	No	30		
TOTAL SECTION 5400 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
5600		SECTION 5600				
B56.01		ROAD SIGNS				
		<u>Road sign boards complete with supports with Class 1 retro-reflective background. Symbols and lettering in semi matt black. Borders in Class 1 retro-reflective material, where the signboard is constructed from:</u>				
		Prepainted galvanized steel plate (Chromadek 1.4mm thick) or approved equivalent (Sign number, size and name stated)				
		900mm diameter Round or Stop signs:				
		a) 'R1 (Stop Sign)	No	2		
		b) 'R201 (speed limit 40km/hr)	No	2		
		900mm diameter Triangular Regulatory Warning signs:				
		-W401 (Delineator on headwalls)	No	4		
		-W402 (Delineator on Headwalls)	No	4		
56,02		Extra over items 56.01 for using				
		(a) Background of retro-reflective material				
		(i) Class 1	m ²	2		
		(b) Lettering, symbols, numbers, arrows, emblems and borders of retro-reflective material				
		(ii) Class III	m ²	2		
56,03		Road sign supports (overhead road sign structures structures excluded)				
		(a) Steel tubing	kg	6		
56,05		Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m ³	1		
TOTAL CARRIED FORWARD						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
56,06		Balance brought forward				
		Extra over item 56.05 for cement treated soil backfill	m ³	0,22		
TOTAL SECTION 5600 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE					PRE-CAST BRIDGE	
ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
5700		SECTION 5700				
		ROAD (Bridge) MARKINGS				
57,02		Retro-reflective road marking paint				
		(a) White lines (broken or unbroken)				
		(i) 100 mm wide	km	0,50		
		(b) Yellow lines (broken or unbroken)				
		(i) 100 mm wide	km			Rate Only
		(d) White lettering and symbols	m²	150		
		(f) Transverse lines, painted island and arrestor bed markings (any colour)	m²			Rate Only
57,06		Setting out and premarking the lines (excluding traffic island markings, lettering and symbols)	km	0,50		
TOTAL SECTION 5700 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

SCHEDULE A: BOSHAKGE BRIDGE					PRE-CAST BRIDGE	
ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
62.02		SECTION 6200				Rate Only
		FALSEWORK FORMWORK AND CONCRETE FINISH				
		Vertical Foamwork to provide:				
		(a) Smooth vertical shuttering (F3 surface finish)	m²			
		(b) Smooth soffit shuttering for slabs (F3 surface finish)	m²	300		
		(c) Boxes to cast guide blocks as per drawing	No	80		
		Additional Concrete Finishing				
		(a) All vertical and horizontal corners of piers to be chamfered 50mm X 50mm	m	150		
		(b) All vertical and horizontal of wingwalls, abutments and slabs to chamfered 25mm X 25mm	m	275		
		(c) Wood floating on all foundation and slabs	m²	1200		
		(d) Steel floating on top of wing walls and guide blocks	m²	30		
TOTAL SECTION 6200- CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

SCHEDULE A: BOSHAKGE BRIDGE					PRE-CAST BRIDGE	
ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
64,01		SECTION 6400				
		CONCRETE FOR STRUCTURES				
		a) 15 Mpa concrete for blinding	m ²	1200		
		b) 30 Mpa concrete for top slab	m ³	165		
		c) 30 Mpa concrete for guide blocks (Paint with 2 layers of acrylic exterior paint)	m ³	70		
		d) 30 Mpa Abutments,Piers and Wingwalls	m ³	60		
		e) 30 Mpa for approach slab	m ³	20		
		f) 25 Mpa Mass concrete	m ³	140		
TOTAL SECTION 6400 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6600	NO-FINES CONCRETE, JOINTS, BEARINGS, BOLT GROUPS FOR ELECTRIFICATION, PARAPETS AND DRAINAGE FOR STRUCTURES				
66.06	Filled Joints				
	(a) Supply and instal 2 layers of Malthoid	m ²	7		
	(b) (i) All material, labour and shuttering for the provision of movement joint type 1 drw MBSA - T-03	m	12,2		
	(b) (ii) All material, labour and shuttering for the provision of movement joint type 2 drw MBSA - T-03	m	12,2		
66.16	Supply and install heavy duty galvanized steel handrails with ball type sanchions every 1,8m as per detail on drw MBSA - T-03	m	104		
66.17	Supplyand install concrete bollards 250mm diameter, 1200mm long Type B1 (Paint bollards with 2 layers of acrylic exterior paint)	No	18		
66.19	Drainage pipes and weep holes:				
	(a) 50mm PVC Pipe in wingwalls and abutments	m	28		
	(b) 110 mm uPVC perforated pipe behind wingwalls and abutments	m	32		
	(c) 300 x 300 x 19mm crushed stone wrapped in bidim A2	m	32		
TOTAL SECTION 6600: CARRY FORWARD TO SUMMARY :					

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
7300		SECTION 7300				
73,01		CONCRETE BLOCK PAVING FOR ROADS				
L.I		Concrete block paving				
		Segmented paving using 25 MPa concrete S-A blocks				
		(ii) 80 mm thick, interlocking, colour, natural	m ²	1 680,00		
73,03		Provision of approved herbicide and ant poison				
		(a) Provision of materials	PC Sum	1	10 000,00	10 000,00
		(b) Contractor's charges and profit added above item 73.03 (a)	%	10 000		
TOTAL SECTION 7300 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

SCHEDULE A: BOSHAKGE BRIDGE

ITEM No.	PAYMENT	DESCRIPTION	UNIT	BILL QTY	RATE	BILL AMOUNT
8100		SECTION 8100				
		TESTING MATERIALS AND WORKMANSHIP				
B81.02		Other special tests requested by the engineer				
		(a) Cost of testing	Prov sum	1	190 000,00	190 000,00
		(b) Contractor's charges and profit added to Item B81.02 (a)	%	190 000,00		
TOTAL SECTION 8100 - CARRY FORWARD TO SUMMARY						

Contractor

Witness 1

Employer

Witness 1

GREATER LETABA MUNICIPALITY

**BOSHAKGE BRIDGE IN LIMPOPO PROVINCE
SUMMARY OF BILL OF QUANTITIES
CALCULATION OF PROJECT SUM**

A BRIDGE

SECTION	DESCRIPTION	PORTAL CULVERT BRIDGE AMOUNT
Section 1200	General Requirements and Provisions	
Section 1300	Contractor's Establishment on Site and General Obligations	
Section 1400	Housing, Offices and Laboratories for the Engineer's Site Personnel	
Section 1500	Accommodation of Traffic	
Section 1700	Clearing and Grubbing	
Section 2200	Prefabricated Culverts	
Section 2300	Concrete Kerbing, Concrete Channeling, Chutes and Downpipes, Concrete Linings for Open Drains	
Section 3100	Borrow Materials	
Section 3300	Mass Earthworks	
Section 3400	Pavement Layers of Gravel Material	
Section 3500	Stabilisation	
Section 5100	Pitching stonework and protection against erosion	
Section 5200	Gabions	
Section 5400	Guardrails	
Section 5600	Road Signs	
Section 5700	Road Markings	
Section 6200	Falsework Formwork and Concrete Finish	
Section 6400	Concrete For Structures	
Section 6600	No-fines concrete, joints, bearings, bolt groups for electrification, parapets and drainage for structures	
Section 7300	Concrete Block Paving for Roads	
Section 8100	Testing Materials and Workmanship	
SUBTOTAL - A BRIDGEWORKS		
SUMMARY OF COSTS		
Preliminary Total 1 (Subtotal - A Bridgeworks)		
Contingencies, allow for 5%, on Preliminary Total 1		
Provisional Sum for Contract Price Adjustment (CPA) (5%), on Preliminary Total 1		
Preliminary Total 2		
VAT 15 %		
FINAL TENDER SUM		

Contractor

Witness 1

Employer

Witness 1

GREATER LETABA MUNICIPALITY



PROJECT NO: GLM009/2026

CONSTRUCTION OF BOSHAKGE BRIDGE

C3. SCOPE OF WORK

Contractor

Witness 1

Employer

Witness 1

SCOPE OF WORK

PART C3: SCOPE OF WORK

C3.1	DESCRIPTION OF THE WORKS	127
C3.2	ENGINEERING.....	137
C3.3	PROCUREMENT	138
C3.4	CONSTRUCTION	150
C3.5	MANAGEMENT	253
C4.1	SITE INFORMATION	295

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Contractor

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Witness 1

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Employer

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Witness 1

C3.1 DESCRIPTION OF THE WORKS

C3.1.1 General Description of the project

This project entails the construction of Boshakge Bridge. It also includes all the associated civil works such as clearing and grubbing, prefabricated culverts, mass earthworks, pavement layers of gravel, stabilization, pitching stonework and protection against erosion, gabions, guardrails, road signs, foundation for structures, concrete for structures and road markings. The construction will include excavation, casting foundation slab, installation of prefabricated rectangular culverts 3000mm x 3000mm for 30m long with 10 barrels, casting of bridge deck, construction of wing walls, construction of approaches slabs and installation of guardrails.

C3.1.1 Employer's Objectives

The employer's objectives are to deliver public infrastructure using labour intensive methods in accordance with EPWP Guidelines

Labour-intensive works

Labour-intensive works shall be constructed/maintained using local workers who are temporarily employed in terms of this Scope of Work.

Labour-intensive competencies of supervisory and management staff

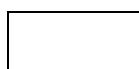
Contractors shall engage supervisory and management staff in labour-intensive works that have completed the skills programme including Foremen/Supervisors at NQF "National Certificate: Supervision of Civil Engineering Construction Processes" and Site Agent/Manager at NQF level 5 "Manage labour-intensive Construction Processes" or equivalent QCTO qualifications.

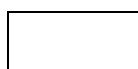
C3.1.2 Location of Works

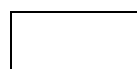
The project is located on Molototsi River in Boshakge Village, approximately 45km North East Tzaneen and 20km North East Modjadjiskoof and falls in the Greater Letaba Municipality jurisdiction within the boundaries of the Mopani District Municipality in Limpopo Province. According to the published 1:250 000 2330 Tzaneen geological map and the 1:200000 of South Africa Geological Map, the area is sitting on the intrusive leucocratic biotite granite rocks (Vlg).

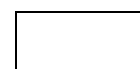
The following shows the coordinates of the project location:

- Boshakge Bridge: 23°35'58.34"S. (latitude)
30°19'45.10"E. (longitude)


Contractor


Witness 1


Employer


Witness 1

C3.1.3 Extent of Works

The project is intended to be labour-intensive as far as practically possible for job creation in line with the objectives of the Employer and legislation of the Republic of South Africa.

The project scope consists of the followings:

- Site Establishment
- Clearing and Grubbing
- Excavation and backfilling
- Terrain and platform preparation
- Reinforced steel fixing
- Construct foundation concrete base (Blinding & Bottom slab)
- Placement and Installation of Box-culvert structures
- Construct structural concrete elements: Deck (Top Slab), Headwalls
- Install concrete block guide
- Prepare layer work and approaching slabs
- Construct gabions boxes and mattress, guardrails, Road Signs and bridge finishes
- Construction of bridge road approaches on both sides, including installation of kerbs and paving blocks.

C3.1.5 Temporary Works

All temporary works for concrete works, deep excavations, shoring and camp site, must be removed and cleared from site after completion to adherence to environmental protection.

C3.1.6 General Information

C3.1.6.1 Drawings

The reduced drawings contained in Annexure C5.3 that form part of the tender document shall be used for tender purposes only. Further drawings are to be provided on an on-going basis by the engineer.

Any information in the possession of the contractor, which the resident engineer requires to complete the as-built drawings, shall be supplied to the resident engineer before a certificate of completion will be issued.

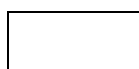
Only figured dimensions shall be used and drawings shall not be scaled unless so instructed by the engineer. The engineer will supply all figured dimensions omitted from the drawings.

C3.1.6.2 Power, Water Supply and Other Services

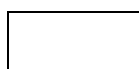
The contractor shall make his own arrangements concerning the supply of electrical power and all other services. No direct payment will be made for the provision of electrical and other services. The cost of providing these services will be deemed to be included in the rates and amounts tendered for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

C3.1.6.3 Contractor's Camp Site and Security

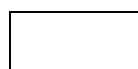
The contractor shall make his own arrangements regarding the establishment of a camp site and housing for his construction personnel and all regulations stipulated by the local authority shall be adhered to.



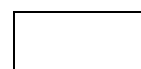
Contractor



Witness 1



Employer



Witness 1

It is anticipated that the contractor's choice of a camp site will be influenced by the availability of telephone and electrical connections as well as the supply of potable water.

Provision is made in these specifications for the erection of a security fence around the site offices. 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, and the employer will consider no claims in this regard.

C3.1.6.4 Additional Requirements for Construction Activities

C3.1.6.4.1 The contractor may not commence constructional activities before adequate provision has been made to accommodate traffic in accordance with the requirements of this document and the South African Road Traffic Signs Manual.

C3.1.6.4.2 The contractor shall submit proposals in connection with directional signs to the engineer for approval.

C3.1.6.5 Programme Requirements for Construction Activities

The contractor shall programme his activities to be suitable in terms of his resources to complete the contract inside the stipulated time period.

C3.1.6.6 Construction in Confined Areas

It may be necessary for the contractor to work in confined areas. In certain areas the width of the fill material and pavement layers may reduce to zero and the working space may be confined. The method of construction in these confined areas depends on the contractor's construction plant. However, the contractor must note that measurement and payment will be in accordance with the specified cross-sections and dimensions, irrespective of the method used to achieve these cross-sections and dimensions, and that the rates and amounts tendered will be deemed to include full compensation for any special equipment or construction methods or for any difficulty encountered in working in confined areas and narrow widths, and at or around obstructions, and that no extra payment will be made nor will any claim for payment be considered on account of these difficulties.

C3.1.7 Labour Regulations

A27 Payment for the labour-intensive component of the works

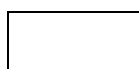
Payment for works identified in clause 3.1.3 "the Extent of the Project" in the Project Specifications as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the scope of work. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.

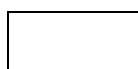
A28 Applicable labour laws

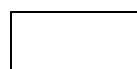
The Ministerial Determination for Special Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice N° R949 in Government Gazette 33665 of 22 October 2010, as reproduced below, shall apply to works described in the scope of work as being labour intensive and which are undertaken by unskilled or semi-skilled workers.

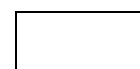
A29 Introduction

This document contains the standard terms and conditions for workers employed in elementary occupations on a Special Public Works Programme (EPWP). These terms and conditions do NOT


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apply to persons employed in the supervision and management of a EPWP.

A29.2 In this document –

- (a) “department” means any department of the State, implementing agent or contractor;
- (b) “employer” means any department, implementing agency or contractor that hires workers to work in elementary occupations on a EPWP;
- (c) “worker” means any person working in an elementary occupation on a EPWP;
- (d) “elementary occupation” means any occupation involving unskilled or semi-skilled work;
- (e) “management” means any person employed by a department or implementing agency to administer or execute an EPWP;
- (f) “task” means a fixed quantity of work;
- (g) “task-based work” means work in which a worker is paid a fixed rate for performing a task;
- (h) “task-rated worker” means a worker paid on the basis of the number of tasks completed;
- (i) “time-rated worker” means a worker paid on the basis of the length of time worked.

A30 Terms of Work

- A30.1 Workers on a EPWP are employed on a temporary basis.
- A30.2 A worker may NOT be employed for longer than 24 months in any five-year cycle on a EPWP.
- A30.2 Employment on a EPWP does not qualify as employment as a contributor for the purposes of the Unemployment Insurance Act 30 of 1966.

A31 Normal Hours of Work

- A31.1 An employer may not set tasks or hours of work that require a worker to work–
 - (a) more than forty hours in any week
 - (b) on more than five days in any week; and
 - (c) for more than eight hours on any day.
- A31.2 An employer and worker may agree that a worker will work four days per week. The worker may then work up to ten hours per day.
- A31.3 A task-rated worker may not work more than a total of 55 hours in any week to complete the tasks allocated (based on a 40-hour week) to that worker.

A32 Meal Breaks

- A32.1 A worker may not work for more than five hours without taking a meal break of at least thirty minutes duration.
- A32.2 An employer and worker may agree on longer meal breaks.
- A32.3 A worker may not work during a meal break. However, an employer may require a worker to perform duties during a meal break if those duties cannot be left unattended and cannot be performed by another worker. An employer must take reasonable steps to ensure that a worker is relieved of his or her duties during the meal break.
- A32.4 A worker is not entitled to payment for the period of a meal break. However, a worker who is paid on the basis of time worked must be paid if the worker is required to work or to be available for work

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during the meal break.

A33 Special Conditions for Security Guards

A33.1 A security guard may work up to 55 hours per week and up to eleven hours per day.

A33.2 A security guard who works more than ten hours per day must have a meal break of at least one hour or two breaks of at least 30 minutes each.

A34 Daily Rest Period

Every worker is entitled to a daily rest period of at least eight consecutive hours. The daily rest period is measured from the time the worker ends work on one day until the time the worker starts work on the next day.

A35 Weekly Rest Period

Every worker must have two days off every week. A worker may only work on their day off to perform work which must be done without delay and cannot be performed by workers during their ordinary hours of work ("emergency work").

A36 Work on Sundays and Public Holidays

A36.1 A worker may only work on a Sunday or public holiday to perform emergency or security work.

A36.2 Work on Sundays is paid at the ordinary rate of pay.

A36.3 A task-rated worker who works on a public holiday must be paid –

- (a) the worker's daily task rate, if the worker works for less than four hours;
- (b) double the worker's daily task rate, if the worker works for more than four hours.

A36.4 A time-rated worker who works on a public holiday must be paid –

- (a) the worker's daily rate of pay, if the worker works for less than four hours on the public holiday;
- (b) double the worker's daily rate of pay, if the worker works for more than four hours on the public holiday.

A37 Sick Leave

A37.1 Only workers who work four or more days per week have the right to claim sick-pay in terms of this clause.

A37.2 A worker who is unable to work on account of illness or injury is entitled to claim one day's paid sick leave for every full month that the worker has worked in terms of a contract.

A37.3 A worker may accumulate a maximum of twelve days' sick leave in a year.

A37.4 Accumulated sick-leave may not be transferred from one contract to another contract.

A37.5 An employer must pay a task-rated worker the worker's daily task rate for a day's sick leave.

A37.6 An employer must pay a time-rated worker the worker's daily rate of pay for a day's sick leave.

A37.7 An employer must pay a worker sick pay on the worker's usual payday.

A37.8 Before paying sick-pay, an employer may require a worker to produce a certificate stating that the worker was unable to work on account of sickness or injury if the worker is –

- (a) absent from work for more than two consecutive days; or
- (b) absent from work on more than two occasions in any eight-week period.

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A37.9 A medical certificate must be issued and signed by a medical practitioner, a qualified nurse or a clinic staff member authorised to issue medical certificates indicating the duration and reason for incapacity.

A37.10 A worker is not entitled to paid sick-leave for a work-related injury or occupational disease for which the worker can claim compensation under the Compensation for Occupational Injuries and Diseases Act.

A38 Maternity Leave

A38.1 A worker may take up to four consecutive months' unpaid maternity leave.

A38.2 A worker is not entitled to any payment or employment-related benefits during maternity leave.

A38.3 A worker must give her employer reasonable notice of when she will start maternity leave and when she will return to work.

A38.4 A worker is not required to take the full period of maternity leave. However, a worker may not work for four weeks before the expected date of birth of her child or for six weeks after the birth of her child, unless a medical practitioner, midwife or qualified nurse certifies that she is fit to do so.

A38.5 A worker may begin maternity leave –

- (a) four weeks before the expected date of birth; or
- (b) on an earlier date –
 - (i) if a medical practitioner, midwife or certified nurse certifies that it is necessary for the health of the worker or that of her unborn child; or
 - (ii) if agreed to between employer and worker; or
- (c) on a later date, if a medical practitioner, midwife or certified nurse has certified that the worker is able to continue to work without endangering her health.

A38.6 A worker who has a miscarriage during the third trimester of pregnancy or bears a stillborn child may take maternity leave for up to six weeks after the miscarriage or stillbirth.

A38.7 A worker who returns to work after maternity leave, has the right to start a new cycle of twenty-four months employment, unless the EPWP on which she was employed has ended.

A39 Family responsibility leave

A39.1 Workers, who work for at least four days per week, are entitled to three days paid family responsibility leave each year in the following circumstances -

- (a) when the employee's child is born;
- (b) when the employee's child is sick;
- (c) in the event of a death of –
 - (i) the employee's spouse or life partner;
 - (ii) the employee's parent, adoptive parent, grandparent, child, adopted child, grandchild or sibling.

A40 Statement of Conditions

A40.1 An employer must give a worker a statement containing the following details at the start of employment –


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- (a) the employer's name and address and the name of the EPWP;
- (b) the tasks or job that the worker is to perform; and
- (c) the period for which the worker is hired or, if this is not certain, the expected duration of the contract;
- (d) the worker's rate of pay and how this is to be calculated;
- (e) the training that the worker will receive during the EPWP.

A40.2 An employer must ensure that these terms are explained in a suitable language to any employee who is unable to read the statement.

A40.3 An employer must supply each worker with a copy of these conditions of employment.

A 41 Keeping Records

A41.1 Every employer must keep a written record of at least the following –

- (a) the worker's name and position;
- (b) in the case of a task-rated worker, the number of tasks completed by the worker;
- (c) in the case of a time-rated worker, the time worked by the worker;
- (d) payments made to each worker.

A41.2 The employer must keep this record for a period of at least three years after the completion of the EPWP.

A42 Payment

A42.1 An employer must pay all wages at least monthly in cash or by cheque or into a bank account.

A42.2 A task-rated worker will only be paid for tasks that have been completed.

A42.3 An employer must pay a task-rated worker within five weeks of the work being completed and the work having been approved by the manager or the contractor having submitted an invoice to the employer.

A42.4 A time-rated worker will be paid at the end of each month.

A42.5 Payment must be made in cash, by cheque or by direct deposit into a bank account designated by the worker.

A42.6 Payment in cash or by cheque must take place –

- (a) at the workplace or at a place agreed to by the worker;
- (b) during the worker's working hours or within fifteen minutes of the start or finish of work;
- (c) in a sealed envelope which becomes the property of the worker.

A42.7 An employer must give a worker the following information in writing –

- (a) the period for which payment is made;
- (b) the numbers of tasks completed or hours worked;
- (c) the worker's earnings;
- (d) any money deducted from the payment;
- (e) the actual amount paid to the worker.

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A42.8 If the worker is paid in cash or by cheque, this information must be recorded on the envelope and the worker must acknowledge receipt of payment by signing for it

A42.9 If a worker's employment is terminated, the employer must pay all monies owing to that worker within one month of the termination of employment.

A43 Deductions

A43.1 An employer may not deduct money from a worker's payment unless the deduction is required in terms of a law.

A43.2 An employer must deduct and pay to the SA Revenue Services any income tax that the worker is required to pay.

A43.3 An employer who deducts money from a worker's pay for payment to another person must pay the money to that person within the time period and other requirements specified in the agreement law, court order or arbitration award concerned.

A43.4 An employer may not require or allow a worker to –

- (a) repay any payment except an overpayment previously made by the employer by mistake;
- (b) state that the worker received a greater amount of money than the employer actually paid to the worker; or
- (c) pay the employer or any other person for having been employed.

A44 Health and Safety

A44.1 Employers must take all reasonable steps to ensure that the working environment is healthy and safe.

A44.2 A worker must–

- (a) work in a way that does not endanger his/her health and safety or that of any other person;
- (b) obey any health and safety instruction;
- (c) obey all health and safety rules of the EPWP;
- (d) use any personal protective equipment or clothing issued by the employer;
- (e) report any accident, near-miss incident or dangerous behaviour by another person to their employer or manager.

A45 Compensation for Injuries and Diseases

A45.1 It is the responsibility of the employers (other than a contractor) to arrange for all persons employed on a EPWP to be covered in terms of the Compensation for Occupational Injuries and Diseases Act, 130 of 1993.

A45.2 A worker must report any work-related injury or occupational disease to their employer or manager.

A45.3 The employer must report the accident or disease to the Compensation Commissioner.

A45.4 An employer must pay a worker who is unable to work because of an injury caused by an accident at work 75% of their earnings for up to three months. The employer will be refunded this amount by the Compensation Commissioner. This does NOT apply to injuries caused by accidents outside the workplace such as road accidents or accidents at home.

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A46 Termination

- A46.1 The employer may terminate the employment of a worker for good cause after following a fair procedure.
- A46.2 A worker will not receive severance pay on termination.
- A46.3 A worker is not required to give notice to terminate employment. However, a worker who wishes to resign should advise the employer in advance to allow the employer to find a replacement.
- A46.4 A worker who is absent for more than three consecutive days without informing the employer of an intention to return to work will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.
- A46.5 A worker who does not attend required training events, without good reason, will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.

A47 Certificate of Service

- A47.1 On termination of employment, a worker is entitled to a certificate stating –
- (a) the worker's full name;
 - (b) the name and address of the employer;
 - (c) the EPWP on which the worker worked;
 - (d) the work performed by the worker;
 - (e) any training received by the worker as part of the EPWP;
 - (f) the period for which the worker worked on the EPWP;
 - (g) any other information agreed on by the employer and worker.

A48 Contractor's default in payment to Labourers and Employees

Any dispute between the Contractor and labourers, regarding delayed payment or default in payment of fair wages, if not resolved immediately may compel the Employer to intervene.

The Employer may, upon the Contractor defaulting payment, pay the moneys due to the workers not honoured in time, out of any moneys due or which may become due to the Contractor under the Contract.

A49 Provision of Hand tools

The Contractor shall provide his labour force with hand tools of adequate quality, sufficient in numbers and make the necessary provisions to maintain the tools in good and safe working conditions

A50 Reporting

The Contractor shall submit monthly returns/reports as specified below:

- Signed Muster rolls/pay sheets of temporary workers and permanent staff detailing the number, category, gender, rate of pay and daily attendance.
- Copies of certified identity documents of workers
- Number of persons who have attended training including nature and duration of training provided

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- Assets created, rehabilitated or maintained in accordance with indicators in the EPWP M&E framework.
- Plant utilization returns
- Progress report detailing production output compared to the programme of works

A51 Project Steering Committee (PSC)

The Contractor shall pay five (5) PSC members per sitting per month as specified below:

- **R160** per member per attended sitting per site progress meetings.

A52 Project Steering Committee (PSC)

The Contractor shall pay general labour at a rate per day as specified below:

- **R150** per labourer per day.

A53 Remuneration of Community Liaison Officer (CLO)

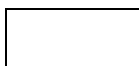
The Contractor shall pay the CLO a monthly salary as specified below:

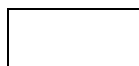
- **R5000** per month.

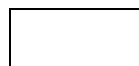
A54 Remuneration of Safety Representative

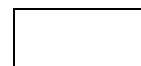
The Contractor shall pay the Safety Representative a monthly salary as specified below:

- **R5000** per month.


Contractor


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C3.2 ENGINEERING**C3.2.1 Design**

- (a) The **Employer** is responsible for the design of the permanent Works as reflected in these Contract Documents unless otherwise stated.
- (b) The **Contractor** is responsible for the design of the temporary Works and their compatibility with the permanent Works.
- (c) The **Contractor** shall supply all details necessary to assist the engineer in the compilation of the as-built drawings.

C3.2.2 Employer's Design

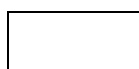
- (a) Detail description of Works
- (b) General Works

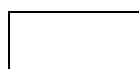
C3.2.3 Contractor's Design

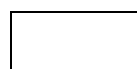
Where contractor is to supply the design of designated parts of the permanent Works or temporary Works he shall supply full working drawings supported by a professional engineer's design certificate.

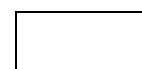
C3.2.4 Design procedures

All designs and modifications thereto shall be communicated in writing and the contractor and engineer shall maintain master lists to record and track all transactions.


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C3.3 PROCUREMENT
PREFERENTIAL PROCUREMENT POINT SYSTEM POLICY

C3.3.1 DEFINITIONS

The words in this policy shall bear a meaning as prescribed and/or ascribed by applicable legislation, and in the event of a conflict, the meaning attached thereto by National Legislation shall prevail.

- (a) “Act” means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000);
- (b) “Comparative price” means the price after the factors of a non-firm price and all unconditional discounts that can be utilised have been taken into consideration;
- (c) “Consortium or Joint Venture” 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;
- (d) “Contract” means the agreement that results from the acceptance of a tender by an organ of state;
- (e) “Disability” means, in respect of a person, a permanent impairment of a physical, intellectual, or sensory function, which results in restricted, or lack of, ability to perform an activity in the manner, or within the range, considered normal for a human being;
- (f) “Firm price” is the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs or excise duty and any other duty, levy, or tax, which, in terms of a law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
- (g) “Management” in relation to an enterprise or business, means an activity inclusive of control and performed on a daily basis, by any person who is a principal executive officer of the company, by whatever name that person may be designated, and whether or not that person is a director;
- (h) “Non-firm prices” means all prices other than “firm” prices;
- (i) “Person” includes reference to a juristic person;

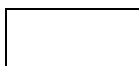
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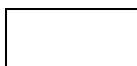
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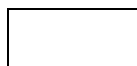
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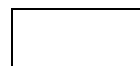
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- (j) "Rand value" means the total estimated value of a contract in Rand denomination which is calculated at the time of tender invitations and includes all applicable taxes and excise duties;
- (k) "Sub-Contracting" means the primary contractor's assigning or leasing or making out work to, or employing,
- (l) "Trust" means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person;
- (m) "Trustee" means any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person.
- (n) "Individual" an individual shall mean a natural person;
- (o) "The Municipality" means the Greater Letaba Municipality;
- (p) "Companies and Shares" shall be read so as to include Close Corporations and members interests mutatis mutandis;
- (q) "Executive Management Committee" shall mean a committee comprising the Municipality's Heads of Divisions and any other Manager so invited.
- (r) "Tender" means a written offer or bid in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of services or goods;
- (s) "EME" means Exempted Micro Enterprise
- (t) "B-BBEE" stands for Broad Based Black Economic Empowerment
- (u) "SANAS" stands for South African National Accreditation System
- (v) "IRBA" stands for Independent Regulatory Board of Auditors


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C3.3.2 PREAMBLE

Whereas the Greater Letaba Municipality, being the Municipality, as defined, and engaged in contracts for the acquisition of goods and services and obliged to do so in accordance with a system which is fair, equitable, transparent, competitive and cost effective, hereby provides for a procurement policy to that effect.

C3.3.3 GOALS

The broad goals of this policy are to:

- (a) Ensure effective and efficient application of resources;
- (b) Promote accountability, transparency and fairness;
- (c) Create opportunities for local small, medium and micro enterprises;
- (d) Enhance quality services;
- (e) Stimulate socio-economic development;
- (f) Eliminate and counter corruption;
- (g) Contribute towards reduction of unemployment.

C3.3.4 OBJECTIVES

The specific objectives of the policy are to:

- (a) Implement best procurement practises through effective planning, strategic purchasing and contract management;
- (b) Standardise levels of skill and knowledge of employees/workers;
- (c) Promote HDI enterprises providing services and goods within the Province;
- (d) Introduce a systematic approach to the appointment of service providers and to promote consistency in respect of supply chain management and offer related policy initiatives.

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C3.3.5 LEGISLATIVE FRAMEWORK

The procurement system is prescribed and regulated by legislation, amongst which being:

- (a) Section 217 of the Constitution, Act 108 of 1996 which provides that in contracting for goods and services, organs of state must do so in accordance with a system that is fair, equitable, transparent, competitive and cost effective;
- (b) Municipal Finance Management Act, 56 of 2003 which aims to regulate financial management of certain organs of state to ensure that all revenue, expenditure, assets and liabilities are managed efficiently and effectively;
- (c) Preferential Procurement Policy Act, 5 of 2000 ("the Act") and the regulations promulgated in terms of the Act giving effect to Section 217(3) of the Constitution by providing a framework for the implementation of the preferential procurement policy contemplated in Section 217 (2) of the Constitution;
- (f) All other applicable laws, policies and regulations.

C3.3.6 GENERAL CONDITIONS

The abovementioned provisions of this policy document shall apply, subject to the following terms and conditions:

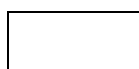
C3.3.6.1 Company Registration

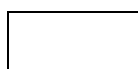
Whereas the Municipality shall have the above responsibilities, the respective and prospective service providers shall be:

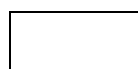
- (a) Registered with the South African Revenue Services for all categories of taxes applicable to it.
- (b) The Municipality reserves the right to have access and/or require production of the original or certified proof of any such registration at a time agreed to by the parties or as may be prescribed by law.

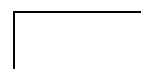
C3.3.6.2 Tender Evaluation

- (a) Only a tenderer who has complied with the tender evaluation requirements may be considered for evaluation.


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- (c) The Municipality shall, when calculating comparative prices, take into account any discounts, which have been offered unconditionally.
- (d) A discount, which has been offered conditionally must, despite not being taken into account for evaluation purposes, must be implemented when payment is affected.
- (e) In the event that different prices are tendered for different periods of a contract, the price for each period must be regarded as a firm price if it conforms to the definition of a "firm price".
- (f) Points scored must be rounded off to the nearest two decimals.
- (g) In the event that two or more tenders have scored equal total points, the successful tenderer must be the one scoring the highest number of points in terms of B-BBEE verification level certificate. Should two or more tenders be equal in all respects, the award shall be decided by the drawing of lots.

C3.3.6.3 Principles

- (a) B-BBEE verification level certificate shall be considered for evaluation purpose. This certificate must be issued by a SANAS accredited verification agency or registered auditors approved by the IRBA. The municipality has the right to check the validity of the certificate (B-BBEE)
- (b) In the event where there is a change in the B-BBEE status after the closing date of the tender, before the award, the tenderer must notify The Municipality and such a tenderer will not be eligible for any preference points.
- (c) The contract must be awarded to the tenderer, which scores the highest points.

C3.3.6.4 Declarations

A tenderer must, in the stipulated manner, declare that-

- (a) The information provided is true and correct;
- (b) The signatory to the tender document is duly authorised; and
- (c) Documentary proof regarding sub-clause C3.3.6.3(a), shall be submitted to the Municipality.

C3.3.6.5 Penalties

- (a) Upon detecting that a B-BBEE certificate in terms of the Act, the regulations or this policy have been obtained on a fraudulent basis, or any specified goals are not attained in the performance of the contract, the Municipality shall act against the person awarded the contract.
- (b) The Municipality may, in addition to any other remedy it may have against the person contemplated in sub-clause C3.3.6.5(a):
 - I. Recover all costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - II. Cancel the contract and claim any damages which it has suffered as a result of having to

Contractor

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Employer

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make less favourable arrangements due to such cancellation;

- III. Restrict the contractor and its shareholders, directors, partners, sole proprietor, joint venture, trusts, etc from obtaining business from the Municipality for a period not exceeding 10 years. The Municipality reserves the right to have access and/or require production of the original or certified proof of any such registration at a time agreed to by the parties or as may be prescribed by law.

C3.3.6.6 Areas of Policy Coverage

The above-mentioned provisions of this policy shall apply to, but not limited to, the following entities and/or activity:

- (a) Procurement of goods or services;
- (b) Appointment of consultants;
- (c) Appointment of contractors, consortia and joint venture contractors;

C3.3.6.7 Criteria for Tender Evaluation

The Municipality shall use the following criteria to evaluate tenders: -

- (a) Compliance with tender conditions;
- (b) 90/10 points system on tenders with a Rand value above R1 000 000 (one million rand) and preference point system 80/20 for tenders with a Rand value equal to, or above R30 000 but up to a Rand value of R1 000 000 (one million rand);
- (c) Price and functionality.

C3.3.6.8 Preference Point System: 90/10

The following formula must be used to calculate the points in respect of tenders/procurement with a Rand value above R1 000 000.00 (one million rand). This formula should be used to determine points for price.

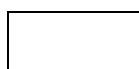
$$P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

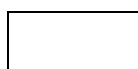
Where:

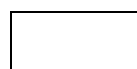
P_s = Point scored for price for the tender under consideration.

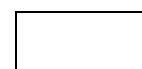
P_t = Rand value of tender under consideration.

$P_{\min}$ = Rand value of the lowest acceptable tender.


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Employer


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C3.3.6.9 Award of Contract to Tenderer not scoring the Highest Number of Points

Despite the fact that only the tenderer with the highest number of points scored may be awarded, a contract may, on reasonable and justifiable ground, be awarded to a tender that did not score the highest number of points.

Note: The municipality shall adjudicate and award tenders in accordance with the Preferential Procurement Policy Framework Act. 5/2000 and revised Preferential Procurement regulation June 2011 on 100 points for functionality and 90/10 points system where 90 points are for the price and 10 points for B-BBEE according to the said legislation. Tenderers are required to submit valid B-BBEE status level verification certificates. Tenders will remain valid for 90 (ninety) days. The lowest and any tender will not necessarily be accepted and the Municipality reserves the right not to consider any tender not fully completed. Bidders are required to initialize each page of the tender document and sign where necessary.

C3.3.7 PROCUREMENT OF GOODS AND SERVICES

Directive for purchasing goods and services below a Rand value of R200 000.00.

C3.3.7.1 Service Providers

In procuring goods and services, a database, for different service providers, shall be compiled from which service providers, in their respective categories of operation, will be selected for specifically identified requirements.

The inclusion into the database shall be by way of invitation through advertisements. The database shall be used for the purposes of rotating requests for quotations from appropriate suppliers. The database shall include service providers supplying stationery, refreshments, security services, minor repairs, etc., but excluding specialized professional services such as HR Consulting, Engineering, etc.

C3.3.7.2 Requirements for Inclusion in the Database

The respective and prospective service providers shall be:

- (a) Registered with the South African Revenue Services for all categories of taxes applicable to it.
- (b) Reserve the right to have access and/or require production of the original or certified proof of any such registration at a time agreed to by the parties or as may be prescribed by law.

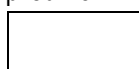
C3.3.7.3 Procedures and Processes

The following procedures and processes, in respect of procuring goods and services shall be applicable: -

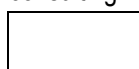
- (a) Requests for quotations shall be issued as per 512(1) of the Greater Letaba SCM Policy.

C3.3.8 APPOINTMENT OF CONSULTANTS

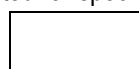
In procuring services of professional consultants, databases for different professions shall be compiled from which consulting firms will be selected for specific projects and evaluated according



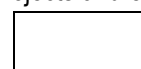
Contractor



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to the Greater Letaba SCM Policy.

C3.3.8.1 Requirements for Inclusion in the Database

The inclusion in the database shall be by way of invitations, through advertisements. In order to be considered for inclusion in the database the service provider shall:

- (a) Comply with all statutory labour requirements;
- (b) Be registered with the South African Revenue Service, for all categories of taxes applicable to it;
- (c) The offer to Consultants shall be made provided there's a Professional person by the time of submission.
- (d) Have Professional Indemnity Insurance;
- (e) Submit, together with application forms, an Original Valid Tax Clearance Certificate;
- (f) Be willing to submit to the physical inspection of the offices for verification of the information supplied in the application forms.

C3.3.8.2 Selection of Consultants for Appointment

The criteria for the selection of consultants for appointment shall take the following order:

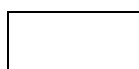
- (a) B-BBEE verification level certificate must be submitted
- (b) Firms with relevant expertise and experience to perform in relation to the service under consideration;
- (c) Firms with the capacity in terms of personnel and equipment in relation to the size of the project under consideration;
- (d) Giving opportunity to others before re-appointing one firm for the second time within the appointment cycle, except for specialized type of service;
- (e) Performance history (quality, efficiency, etc.)

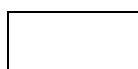
C3.3.8.3 Authority to Appoint

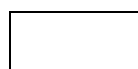
The Accounting Officer shall have the authority to appoint consultants, upon recommendation by the Bid Adjudication Committee. Accounting Officer has delegated powers to appoint to the Bid Adjudication Committee, the committee shall appoint.

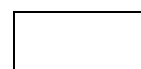
C3.3.8.4 Changes in Scope of Work

- (a) The Municipality shall have the right to revise the scope of work, including discontinuing with the project during the design stage;
- (b) The consultant shall have the right to be compensated for work done prior and up to cancellation stage;


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- (c) The discontinued project shall be deemed to have been removed from the Municipality's programme of work and the consultant shall have no right to be appointed on the same project should the project be revived at a later stage.

C3.3.9 APPOINTMENT OF CONTRACTORS

C3.3.9.1 Procedure for Invitation of Tenders

Tenders will be invited publicly through the general media and other forms of communication to ensure that target communities are reached. The intention is to ensure that the SMME's in rural areas that may not be in a position to access the general press is also reached.

In the event where normal tendering is not practical due to other constraints, at least three (3) selected service providers shall be invited to submit quotations.

C3.3.9.2 The tender invitation shall include:

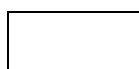
- (a) Specifications and description of project or services to be procured;
- (b) Tendering information and documentation will be in English;
- (c) A non-refundable charge shall be payable to cover the cost of the tender documents and specifications;

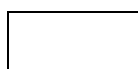
C3.3.9.3 Compulsory Requirements

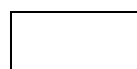
The following requirements shall be applicable to all tenders and non-adherence thereto shall result in an automatic disqualification for the advertised tender:

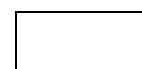
- (a) Attendance of site inspection for briefing;
- (b) Submission of valid original tax clearance certificate;
- (c) Authority to act and contractually bind the tenderer.
- (d) Tenderers are required to register with the Construction Industry Development Board (CIDB), (9 July 2015) which will then allocate a grade applicable to the tenderer. The grades applicable are shown in the table below.

WORKS CAPABILITY		
Designation	Maximum value of contractor is considered capable of performing	Largest contract completed,during the 5 years immediately preceding the application,in the class of construction works applied for
2	R 650,000.00	R 130,000.00
3	R 2,000,000.00	R 450,000.00
4	R 4,000,000.00	R 900,000.00
5	R 6,500,000.00	R 1,500,000.00
6	R 13,000,000.00	R 3,000,000.00
7	R 40,000,000.00	R 9,000,000.00
8	R 130,000,000.00	R 30,000,000.00


Contractor


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9	No Limit	R 90,000,000.00
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(e) Any special condition which may be attached to any tender of the Municipality.

C3.3.9.4 Closure and Opening of Tenders

Tenders shall close on a date and time specified in the tender document and shall be opened and read in public.

C3.3.9.5 Evaluation of Tenders

Tenders to be evaluated shall comply with the requirements as outlined under C3.3.9.3.

C3.3.9.6 Points In Respect of Status of Enterprise

A maximum of 20 (twenty) potential points in respect of 80/20 and a maximum of 10 (ten) potential points in respect of 90/10 will be awarded in respect of the status of the B-BBEE

C3.3.9.7 Points In Respect of Price and Functionality

Tenders shall be evaluated on 80 points for price and 20 for B-BBEE as per the Greater Letaba SCM Policy.

(a) Calculation of percentage for price

The financial offer will be scored using the following:

$$P_s = W_1 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

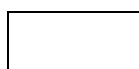
Where

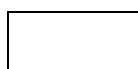
- P_s = Points scored for functionality and price of the bid/proposal
 W_1 = (1) 90 where the financial value inclusive of VAT of all responsive tenders received have a value in excess of R50 000 000.00; or
 (2) 80 where the financial value inclusive of VAT of one or more responsive tender offers equals or is less than R50 000 000.00.
 P_t = Rand value of tender under consideration
 $P_{\min}$ = Rand value of the lowest acceptable tender

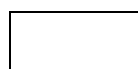
C3.3.9.8 Cessions

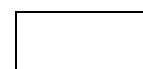
A service provider awarded a contract may not cede or subcontract a contract/project or any part thereof without written consent of the Municipality and where such consent is granted, a signed agreement involving the cedent, cessionary and the Municipality shall be entered into.

The minimum of 25% must be sub contracted to a local emerging contractor. A contractor is not allowed to subcontract more than 25% of the contract value to another enterprise that does not have equal or higher B-BBEE status level, unless the intended subcontractor is an EME that has capability and ability to execute the subcontract. Both the cedent and the cessionary shall be jointly and


Contractor


Witness 1


Employer


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severally liable for the quality of the material supplied and workmanship.

C3.3.9.9 Performance Guarantees

The Municipality shall strive to facilitate the participation of HDI's and SMME by waiving or reducing the maximum amounts of sureties as follows:

- (a) No surety for projects between R0 to 500 000
- (b) 1% surety for projects between R500 000 and R1 million
- (c) 2,5% surety for projects between R1 million and R2 million
- (d) 5% surety for projects above R2 million not exceeding R5 million
- (e) 10% surety for projects above R5 million

The period required to provide surety shall be 21 calendar days. However, depending on circumstances, a shorter period may be prescribed. In the event of failure to submit the surety within the stipulated period, the Municipality shall be entitled to cancel the contract and award the tender to a suitable contractor.

Sureties may only be accepted from a banking institution registered in terms of the Banks Act, 1996, an insurer registered in terms of the Short-term Insurance Act (Act 53 of 1998), or from governmental institutions established for such purposes.

C3.3.9.10 Notification of Acceptance

Successful service providers or tenderers shall be notified before the tender validity period expires.

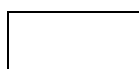
C3.3.9.11 Contractual Agreement

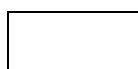
The relationship between the Municipality and the contractor shall be managed under the following contractual documents:

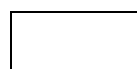
- (a) The tender document submitted by the tenderer;
- (b) The project drawings relevant for the tendered project;
- (c) The General Conditions of Contract for Construction Works (2015) published by the South African Institution of Civil Engineering (GCC) and the COLTO Standards Specifications for Road Bridge Works for State Authorities as they may apply from time to time..
- (d) The Municipality's Procurement Policy
- (e) Any other relevant legislation aimed at meeting other government policy initiatives.

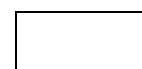
C3.3.9.12 Tax Clearance Certificate

No contract shall be awarded to an entity which fails to submit a valid original Tax Clearance Certificate or Pin from the South African Revenue Service (SARS), certifying that the taxes of the


Contractor


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Employer


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said entity are in order.

In cases where the successful tenderer has only submitted a letter from SARS, the tenderer will be given seven (7) working days to submit the original Tax Clearance Certificate. Failure to do so, shall lead to the disqualification of the tenderer. The tenderer with the second highest points shall be awarded the contract.

C3.3.9.13 Variations

The Municipality shall have the right to reduce or increase the scope of work by no more than 20% of the tendered amount.

Contractor

Witness 1

Employer

Witness 1

C3.4 CONSTRUCTION**C3.4.1 STANDARD SPECIFICATIONS**

- (a) The following specifications shall apply for the construction of the Works.
- (i) The COLTO Standard Specifications for Road and Bridge Works for State Road Authorities (1998).

The contractor may purchase copies of Volume (i) from the South African Institution of Civil Engineers.

SAICE		Tel : (011) 805-5947
Waterfall Park	/ Postnet Suite 81	Fax : (011) 805-5971
Howick Gardens	/ Private Bag X65	
Vorna Valley	/ Halfwayhouse	Contact Person : Angeline Aylward
Becker Street	/ 1685	
Midrand		

- (b) SABS or BS Specifications and Codes of Practice

Wherever any reference is made to the South African Bureau of Standards (SABS) and the British Standards Specification (BSS) in either these Bill of Quantities or the Specification of Materials and Methods to be Used (OOG-001E), this reference shall be deemed to read "SABS or equivalent standard" and BS or equivalent standard" respectively.

- (c) Various other specifications specified in the COLTO Standard Specifications or the Project Specifications.
- (d) Latest **Sabita Manual**, Manual 25 entitled "*Quality Management in the Handling and Transport of Bituminous Binders*".

Contractor

Witness 1

Employer

Witness 1

C3.4.2 PROJECT SPECIFICATIONS RELATING TO STANDARD SPECIFICATIONS

C3.4.2.1 General Conditions of Contract Referred to in the Standard Specifications

The references to the General Conditions of Contract appearing in the COLTO Standard Specifications refer to the COLTO General Conditions of Contract which is superseded in this contract by the General Conditions of Contract for Construction Works 2015. The corresponding clause in the latter document pertaining to the reference in the COLTO Standard Specifications is listed in the table below.

Clause No. in the Standard Specifications	Clause No. in COLTO General Conditions	Equivalent Clause No. in General Conditions of Contract 2015
1204	15	5.6.1
1206	14	Deleted
1209	52	6.10.2
1210	54	5.1.1
1212(1)	49	6.10.1
1215	45	5.12.1
1217	35	8.2.1
1303	49	6.8
1303	53	6.11
1303	12	5.6
1303	45	5.12.1
1403	40(1)	6.4.1
1505	40	6.4
31.03	40	6.4
3204(b)	40	6.4
3303(b)	2	3
5803(c)	40	6.4
5805(d)	40	6.4
6103(c)	40	6.4
Item 83.03	22	5.15
ALL SECTIONS	48	6.6

C3.4.2.2 Amendments to the Standard Specifications

There are no amendments to the Standard Specifications as issued by the Committee of Land Transport Officials (COLTO).

 Contractor

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C3.4.2.3 Project Specifications Relating to Standard Specifications

This part of the project specifications deals with matters relating to the standard specifications. Where reference is made in the standard specifications to the project specifications this part shall also contain the relevant information e.g. the requirements where a choice of materials or construction methods are provided for the standard specifications.

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 and amendments of the standard specifications required for this particular contract.

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 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.

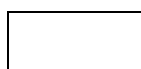
Clauses and pay items referring to labour intensive methods are prefixed by L in the project specifications.

Clauses and pay items referring to emerging contractors are prefixed by E in the project specifications.

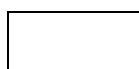
C3.4.2.4 REQUIREMENTS OF EXPANDED PUBLIC WORKS PROGRAMME

EPWP Special Project Specification

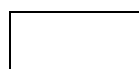
As much as is economically feasible all work shall be implemented by employing Labour Intensive Construction methods. Over and above the normal Building and Allied works to be implemented by employing skilled and unskilled labour the works specified in the "Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP)" shall be undertaken using Labour Intensive Construction methods.



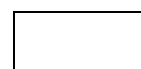
Contractor



Witness 1



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Witness 2

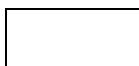
EMPLOYMENT OF UNSKILLED AND SEMI-SKILLED WORKERS IN LABOUR-INTENSIVE WORKS

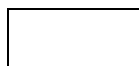
Requirements for the sourcing and engagement of labour.

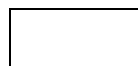
- C.1.1. Unskilled and semi-skilled labour required for the execution of all labour intensive works shall be engaged strictly in accordance with prevailing legislation and SANS 1914-5, Participation of Targeted Labour.
- C.1.2. The rate of pay set for the EPWP is R140 per day. Determined by the Municipality in terms of clause 2.2 of these Guidelines)
- C.1.3. Tasks established by the contractor must be such that:
- the average worker completes 5 tasks per week in 40 hours or less; and
 - the weakest worker completes 5 tasks per week in 55 hours or less.
- C.1.4. The contractor must revise the time taken to complete a task whenever it is established that the time taken to complete a weekly task is not within the requirements of 1.1.3.
- C.1.5. The Contractor shall, through all available community structures, inform the local community of the labour intensive works and the employment opportunities presented thereby. Preference must be given to people with previous practical experience in construction and / or who come from households:
- where the head of the household has less than a primary school education;
 - that have less than one full time person earning an income;
 - where subsistence agriculture is the source of income.
 - those who are not in receipt of any social security pension income
- C.1.6. The Contractor shall endeavour to ensure that the expenditure on the employment of temporary workers is in the following proportions:
- 60 % women;
 - 55% youth who are between the ages of 18 and 35; and
 - 2% on persons with disabilities.

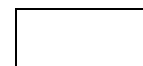
Specific provisions pertaining to SANS 1914-5

- C.1.7. Definitions
- Targeted labour:** Unemployed persons who are employed as local labour on the project.
- C.1.8. Contract participation goals
- C.1.9. There is no specified contract participation goal for the contract. The contract participation goal shall be measured in the performance of the contract to enable the employment provided to targeted labour to be quantified.
- C.1.10. The wages and allowances used to calculate the contract participation goal shall, with respect to both time-rated and task rated workers, comprise all wages paid and any training allowance paid in respect of agreed training programmes.
- C.1.11. Terms and conditions for the engagement of targeted labour
- Further to the provisions of clause 3.3.2 of SANS 1914-5, written contracts shall be entered into with targeted labour.


Contractor


Witness 1


Employer


Witness 2

- C.1.12. Variations to SANS 1914-5
- C.1.13. The definition for net amount shall be amended as follows: Financial value of the contract upon completion, exclusive of any value added tax or sales tax which the law requires the employer to pay the contractor.
- C.1.14. The schedule referred to in 5.2 shall in addition reflect the status of targeted labour as women, youth and persons with disabilities and the number of days of formal training provided to targeted labour.

Training of targeted labour

- C.1.15. The contractor shall provide all the necessary on-the-job training to targeted labour to enable such labour to master the basic work techniques required to undertake the work in accordance with the requirements of the contract in a manner that does not compromise worker health and safety.
- C.1.16. The cost of the formal training of targeted labour, will be funded by the provincial office of the Department of Labour. This training should take place as close to the project site as practically possible. The contractor, must access this project by informing the relevant provincial office of the Department of Labour in writing, within 14 days of being awarded the contract, of the likely number of persons that will undergo training and when such training is required. The employer must be furnished with a copy of this request.
- C.1.17. A copy of this training request made by the contractor to the DOL provincial office must also be faxed to the EPWP Training Director in the Department of Public Works– Cinderella Makunike, Fax Number 012 328 6820 or email cinderella.makunike@dpw.gov.za Tel: 083 677 4026
- C.1.18. The contractor shall be responsible for scheduling the training of workers and shall take all reasonable steps to ensure that each beneficiary is provided with a minimum of six (6) days of formal training if he/she is employed for 3 months or less and a minimum of ten (10) days if he/she is employed for 4 months or more.
- C.1.19. The contractors shall do nothing to dissuade targeted labour from participating in the above mentioned training programmes.
- C.1.20. An allowance equal to 100% of the task rate or daily rate shall be paid by the contractor to workers who attend formal training, in terms of 1.3.4 above.
- C.1.21. Proof of compliance with the requirements of 1.3.2 to 1.3.6 must be provided by the Contractor to the Employer prior to submission of the final payment certificate.

GENERIC LABOUR-INTENSIVE SPECIFICATION

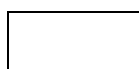
The Generic Labour-intensive specification below is the same as SANS 1921-5,

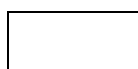
Construction and management requirement for works contracts- Part 5: Earthworks activities which are to be performed by hand and should be included in the scope of works without amendment or modification as set out below.

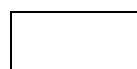
SCOPE

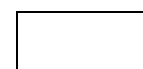
This specification establishes general requirements for activities which are to be executed by hand involving the following:

- a) trenches having a depth of less than 1.5 metres
- b) stormwater drainage
- c) low-volume roads and sidewalks


Contractor


Witness 1


Employer


Witness 1

PRECEDENCE

Where this specification is in conflict with any other standard or specification referred to in the Scope of Works to this Contract, the requirements of this specification shall prevail.

HAND EXCAVATEABLE MATERIAL

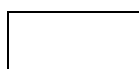
Hand excavatable material is material:

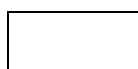
- a) granular materials:
 - i) whose consistency when profiled may in terms of table 1 be classified as very loose, loose, medium dense, or dense; or
 - ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 15 blows of a dynamic cone penetrometer is required to penetrate 100mm;
- b) cohesive materials:
 - i) whose consistency when profiled may in terms of table 1 be classified as very soft, soft, firm, stiff and stiff / very stiff; or
 - ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 8 blows of a dynamic cone penetrometer is required to penetrate 100mm;

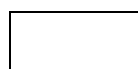
Note:

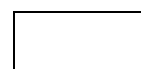
- 1) A boulder, a cobble and gravel is material with a particle size greater than 200mm, between 60 and 200mm.
- 2) A dynamic cone penetrometer is an instrument used to measure the insitu shear resistance of a soil comprising a drop weight of approximately 10 kg which falls through a height of 400mm and drives a cone having a maximum diameter of 20mm (cone angle of 60° with respect to the horizontal) into the material being used.

Table 1: Consistency of materials when profiled


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GRANULAR MATERIALS		COHESIVE MATERIALS	
CONSISTENCY	DESCRIPTION	CONSISTENCY	DESCRIPTION
Very loose	Crumbles very easily when scraped with a geological pick.	Very soft	Geological pick head can easily be pushed in as far as the shaft of the handle.
Loose	Small resistance to penetration by sharp end of a geological pick.	Soft	Easily dented by thumb; sharp end of a geological pick can be pushed in 30-40 mm; can be moulded by fingers with some pressure.
Medium dense	Considerable resistance to penetration by sharp end of a geological pick.	Firm	Indented by thumb with effort; sharp end of geological pick can be pushed in up to 10 mm; very difficult to mould with fingers; can just be penetrated with an ordinary hand spade.
Dense	Very high resistance to penetration by the sharp end of geological pick; requires many blows for excavation.	Stiff	Can be indented by thumbnail; slight indentation produced by pushing geological pick point into soil; cannot be moulded by fingers.
Very dense	High resistance to repeated blows of a geological pick.	Very stiff	Indented by thumbnail with difficulty; slight indentation produced by blow of a geological pick point.

Contractor

Witness 1

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TRENCH EXCAVATION

All hand excavatable material in trenches having a depth of less than 1,5 metres shall be excavated by hand.

COMPACTION OF BACKFILLING TO TRENCHES (AREAS NOT SUBJECT TO TRAFFIC)

Backfilling to trenches shall be placed in layers of thickness (before compaction) not exceeding 100mm. Each layer shall be compacted using hand stampers

- a) to 90% Proctor density;
- b) such that in excess of 5 blows of a dynamic cone penetrometer (DCP) is required to penetrate 100 mm of the backfill, provided that backfill does not comprise more than 10% gravel of size less than 10mm and contains no isolated boulders, or
- c) such that the density of the compacted trench backfill is not less than that of the surrounding undisturbed soil when tested comparatively with a DCP.

EXCAVATION

All hand excavatable material including topsoil classified as hand excavatable shall be excavated by hand. Harder material may be loosened by mechanical means prior to excavation by hand.

The excavation of any material which presents the possibility of danger or injury to workers shall not be excavated by hand.

CLEARING AND GRUBBING

Grass and small bushes shall be cleared by hand.

SHAPING

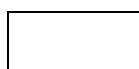
All shaping shall be undertaken by hand.

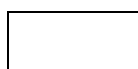
LOADING

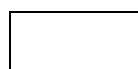
All loading shall be done by hand, regardless of the method of haulage.

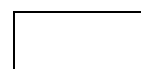
HAUL

Excavation material shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150 m.


Contractor


Witness 1


Employer


Witness 1

Amendments to the Standard Specifications

There are no amendments to the Standard Specifications as issued by the Committee of Land Transport Officials (COLTO).

Project Specifications Relating to Standard Specifications

This part of the project specifications deals with matters relating to the standard specifications. Where reference is made in the standard specifications to the project specifications this part shall also contain the relevant information e.g. the requirements where a choice of materials or construction methods are provided for the standard specifications.

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 and amendments of the standard specifications required for this particular contract.

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 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.

Clauses and pay items referring to labour intensive methods are prefixed by L in the project specifications.

Clauses and pay items referring to emerging contractors are prefixed by E in the project specifications.


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MATTERS RELATING TO THE STANDARD SPECIFICATIONS

SECTION 1200 : GENERAL REQUIREMENTS AND PROVISIONS	C.160
SECTION 1300: CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS	C.170
SECTION 1400: HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL	C.171
SECTION 1500: ACCOMMODATION OF TRAFFIC	C.171
SECTION 1700: CLEARING AND GRUBBING	C.174
SECTION 1800: DAYWORK SCHEDULE	C.174
SECTION 2100 : DRAINS.....	C.176
SECTION 2200 : PREFABRICATED CULVERTS	C.176
SECTION 2300: CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES AND CONCRETE LININGS FOR OPEN DRAINS	C.178
SECTION 3100: BORROW MATERIALS	C.179
SECTION 3300: MASS EARTHWORKS	C.180
SECTION 3400: PAVEMENT LAYERS OF GRAVEL MATERIAL	C.181
SECTION 4300 : SEALS: MATERIALS AND GENERAL REQUIREMENTS.....	C.183
SECTION 4500 : DOUBLE SEALS.....	C.189
SECTION 5200 : GABIONS.....	C.122
SECTION 5600 : ROAD SIGNS.....	C.192
SECTION 5700: ROAD MARKINGS.....	C.194
SECTION 5900: FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS.....	C.195
SECTION 6400 : CONCRETE FOR STRUCTURES	C.196

*Contractor**Witness 1**Employer**Witness 1*

SECTION 1200 : GENERAL REQUIREMENTS AND PROVISIONS**B1202 SERVICES**

Add the following to the fifth paragraph:

"Provision is made in the bill of quantities for payment for searching and exposing of known or unknown services as well as the relocation and/or protection of existing services. Any moving of existing services which may be required within the proclaimed road reserve will be undertaken by the relevant service authorities or by a selected subcontractor if so ordered by the engineer."

B1204 PROGRAMME OF WORK**(a) General requirements**

Amend the word "network" in the fourth line of the first paragraph to read as "bar (Gantt) chart".

Add the following after the third paragraph:

"The bar-chart programme to be provided by the contractor shall show the various activities in such detail as may be required by the engineer. Progress in terms of the programme shall be updated monthly by the contractor in accordance with the progress made by the contractor.

In compiling the programme of work, the contractor shall indicate and make due allowance for the following, as specified elsewhere in the contract documents:

- The requirements regarding the accommodation of traffic and areas that may be occupied at any time for construction purposes (as indicated on the drawings and specified in Section 1500 of the specifications)
- Requirements regarding the training of labourers and Emerging Contractors (EC's).
- The requirements for work to be undertaken by labourers and work to be undertaken by EC's.

(b) Programme of work for rehabilitation work

Amend the word "network" in the fourth line of the second paragraph to read as "bar (Gantt) chart".

B1205 WORKMANSHIP AND QUALITY CONTROL

Add the following to the third paragraph:

"The engineer shall, however, undertake acceptance control tests for the judgement of workmanship and quality, without accepting any obligations vested with the contractor in terms of the contract with specific reference to quality of materials and workmanship. Such acceptance control test done by the engineer shall not relieve the contractor of his obligations to maintaining his own quality control system."

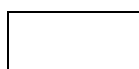
Add the following at the end of this clause:

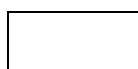
"The engineer shall, for the purpose of acceptance control on products and workmanship, assess test results and measurements in accordance with the provisions of section 8300 of the standard specifications. Where small quantities of work are involved, a lot shall mean a full day's production for a specific item of work subject to acceptance control testing."

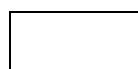
B1206 THE SETTING-OUT OF THE WORK AND PROTECTION OF BEACONS

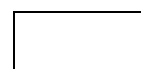
Add the following:

"The contractor shall be responsible for the true and proper setting out of the Works and for the correctness of the position, levels, dimensions and alignment of all parts of the Works and for the provision of all necessary


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instruments, appliances and labour in connection therewith.”

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 borne by the Contractor.”

B1209 PAYMENT

(b) Rates to be inclusive

Add the following:

“VAT shall be excluded from the rates and provided for as a lump sum in the Summary of Bill of Quantities”.

(e) Materials on the site

Add the following:

"In addition, the engineer may at his sole discretion also allow payments under "Materials on Site" in respect of any construction materials if stored off-site providing that:

- (a) The site selected for this purpose is approved by the engineer
- (b) Such land is physically separated from any production plant or operation
- (c) Only materials for use under this contract is stockpiled on such land
- (d) The contractor has provided proof of an agreement with the owner of such land that the owner has no claim whatsoever on any materials stockpiled on such land
- (e) Materials obtained by the contractor for or on behalf of emerging subcontractors (SMME's) shall remain the responsibility of the contractor after payment has been made in respect of materials on site.”

B1215 EXTENSION OF TIME RESULTING FROM ABNORMAL RAINFALL

Add the following after the first paragraph of this clause:

"For the purposes of this contract, extension of time resulting from abnormal rainfall or other forms of inclement weather shall be determined according to the requirements of Method i (rainfall formula).”

Extension of time due to Abnormal Rainfall

Extension of time for completion of the Contract shall be allowed in the event of abnormal rainfall in accordance with the following formula:

$$V = (N_w - N_n) + (R_w - R_n)/20$$

Where:

V = Extension of time in calendar days for the calendar month under consideration

N_w = Actual number of days during the calendar month under consideration on which a rainfall of 10mm and more is recorded

R_w = Actual total rainfall in mm recorded during the calendar month under consideration

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- N_n = Average number of days, derived from rainfall records, on which a rainfall of 10mm and more was recorded during the relevant calendar month as per the data tabulated hereinafter
- R_n = Average total rainfall in mm for the relevant calendar month, derived from rainfall records, as tabulated hereinafter

Where the extension of time due to abnormal rainfall has to be calculated for portion of a calendar month, pro rata values shall be used. Should V be negative for any particular month, and should its absolute value exceed the corresponding value of N_n , then V shall be taken as being equal to minus N_n . The total extension of time to be granted shall be the algebraic sum of all the monthly extensions, provided that if this total is negative then the time for completion shall not be reduced due to subnormal rainfall.

Rainfall records for the period of construction shall be taken on Site. The Contractor shall provide and install all the necessary equipment for accurately measuring the rainfall. The Contractor shall also provide, erect and maintain a security fence plus gate, padlock and keys at each measuring station, all at his own cost. The Engineer or his Representative shall take and record the daily rainfall readings. The Contractor shall be permitted to attend these readings, in the company of the Engineer's Representative. Access to the measuring gauge(s) shall at all times be under the Engineer's control.

The rainfall records applicable to this Contract are those recorded at Letaba Weather Station. The following values of N_n and R_n shall apply:

Month	R_n (mm)	N_n (days)
January	287.5	13.1
February	143.2	6.5
March	85.2	3.9
April	125.0	5.7
May	13.1	0.6
June	13.8	0.6
July	18.9	0.9
August	9.4	0.4
September	25.3	1.2
October	69.5	3.2
November	242.2	11.0
December	205.0	9.3
TOTAL	1238.1	56.4

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Unless otherwise provided in the Site Information, the value of “n” shall be taken as equal to the tendered time for completion of the Works in months, rounded off to an integer.

Extension of time during normal working days will be granted to the degree to which actual delays as determined in accordance with clause 42.5 hereof, exceed the number of “n” normal working days.

The value of “n” does not take into account further or concurrent delays which are caused by other abnormal climatic conditions such as floods, which have to be determined separately in accordance with clause 42.5 hereof.

B1217 PROTECTION OF THE WORKS AND REQUIREMENTS TO BE MET BEFORE CONSTRUCTION OF NEW WORK ON TOP OF COMPLETED WORK IS COMMENCED

Add the following subclause:

"(h) No concrete kerbing or concrete drains directly adjoining the bituminous surfacing shall be constructed prior to the completion of the bituminous surfacing."

B1222 USE OF EXPLOSIVES

Add the following subclause:

"(h) Where blasting operations are undertaken in close proximity of temporary deviations, the contractor shall implement all such safeguarding measures as may be required and instructed by the engineer."

B1224 THE HANDING-OVER OF THE ROAD RESERVE

Add the following:

"The total length of the road reserve between the specified limits of construction will be handed over to the contractor on the commencement date. Reference shall, however, be made to the requirements of section 1500 of these specifications where limitations in respect of work-areas are specified. In the event of the non-adherence by the contractor in terms of the mentioned specifications, the engineer shall withdraw such sections of the road reserve as may be justified to ensure suitable progress of the works or safe passage of traffic."

B1229 SABS CEMENT SPECIFICATIONS

Replace the last paragraph of this clause with the following:

"Where reference is made in this specification or the standard specifications to the cement specifications, eg. SABS 471: Portland cement and rapid hardening Portland cement, it shall be replaced with the new specification:

SABS ENV 197-1: Cement-composition, specifications and conformity criteria.

Part 1: Common cements.

Furthermore, where reference is made in this specification or the standard specifications to the different cement types, the following new names/types shall apply:

Old product nomenclature	Typical new product nomenclature	
	Cement type	Cement strength class
OPC	CEM I	32,5
	CEM I	32,5R

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Old product nomenclature	Typical new product nomenclature	
	Cement type	Cement strength class
RHC	CEM I	42,5
	CEM I	42,5R
LASRC	No provision made	No provision made
PC15SL	CEM II/A-S	32,5
	CEM II/A-S	32,5R
	CEM II/A-S	42,5
PC15FA	CEM II/A-V	32,5
	CEM II/A-V	32,5R
	CEM II/A-W	32,5
	CEM II/A-W	32,5R
RH15FA	CEM II/A-V	42,5
	CEM II/A-V	42,5R
	CEM II/A-W	42,5
	CEM II/A-W	42,5R
PBFC	CEM III/A	32,5
	CEM III/A	32,5R
PFAC	CEM II/B-V	32,5
	CEM II/B-W	32,5
RH30SL	CEM II/B-S	32,5R
	CEM II/B-S	42,5
RH40SL	CEM III/A	32,5R
	CEM III/A	42,5

CEM I 32,5, CEM II A-S 32,5, CEM II/A-V 32,5, or CEM III A may be used for the manufacture of reinforced concrete members.”

Add the following new clauses:

“B1230: IN-SERVICE TRAINING

The contractor shall implement in-service training. Labourers shall be trained progressively throughout the duration of the contract, in the various stages of a particular type of work.

(a) Details of in-service training

(i) The contractor shall attach to form RDP 1(E) basic details of his proposed in-service training programme, which details shall inter alia include the following:

- the details of training to be provided
- the manner in which the training is to be delivered
- the number and details of trainers to be utilised.

(ii) The in-service training programme shall be submitted with the initial works programme. The progress in relation to this programme will be recorded monthly and attached to the site meeting minutes and payment certificate.

(iii) The contractor shall provide on site, sufficient skilled and competent trainers to train all labourers

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engaged on the contract, in the various skills required for the execution and completion of the works.

- (iv) All labourers shall be remunerated in respect of all time spent undergoing training.
- (v) Every worker engaged on the contract shall on the termination of his participation on the contract, be entitled to receive from the contractor, a certificate of service in which the following information shall be recorded:
- the name of the contractor
 - the name of the employee
 - the name of the project/contract
 - the nature of the work satisfactorily executed by the worker and the time spent thereon
 - the nature and extent of training provided to the worker
 - the dates of service.

The cost of the above obligations shall be deemed to be covered by the sums and rates tendered for items B13.01(a), (b) and (c) in the bill of quantities. The performance of the contractor in providing in-service training, shall be taken into consideration should the contractor fail to reach his CPG at the completion of the project.

(b) Lead time for training

The training of labour as specified shall, as far as possible, take place before commencement of each activity and the contractor shall take into account in his programme the lead-time he requires for such training. All training herein specified shall be deemed to be a construction activity and a non-negotiable condition of the contract”.

B1231 COMMUNITY LIAISON OFFICER (CLO)

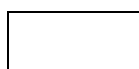
The contractor or his appointed agent will appoint a Community Liaison Officer (CLO) after consultation with the local communities, the engineer and the employer. The contractor shall direct all his liaison efforts with the local communities through the appointed officer.

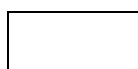
The contractor shall, however, accept the appointed as part of his management personnel.

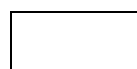
(a) Duties of the Community Liaison Officer

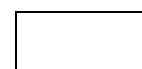
The Community Liaison Officer's duties will be:

- (i) To be available on site daily between the hours of 07:00 and 11:00 and at other times as the need arises. His normal working day will extend from 07:00 in the morning until 15:30 in the afternoon.
- (ii) To determine, in consultation with the contractor, the needs of the temporary labour for relevant skills training. He will be responsible for the identification of suitable trainees and will attend one of each of the training sessions.
- (iii) To communicate daily with the contractor and the engineer to determine the labour requirements with regard to numbers and skill, to facilitate in labour disputes and to assist in their resolution.
- (iv) To assist in and facilitate in the recruitment of suitable temporary labour and the establishment of a “labour desk”.
- (v) To attend all meetings in which the community and/or labour are present or are required to be represented.


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Witness 1

- (vi) To assist in the identification, and screening of labourers from the community in accordance with the contractor's requirements.
- (vii) To inform temporary labour of their conditions of temporary employment and to inform temporary labourers as early as possible when their period of employment will be terminated.
- (viii) To attend disciplinary proceedings to ensure that hearings are fair and reasonable.
- (ix) To keep a daily written record of his interviews and community liaison.
- (x) To attend monthly site meetings to report on labour and RDP matters.
- (xi) All such other duties as agreed upon between all parties concerned.
- (xii) To submit monthly returns regarding community liaison as illustrated in Part C5.1 of this document (form RDP 12(E)).

(b) Payment for the community liaison officer

A special pay item is incorporated in section 1200 of the bill of quantities relating to payment of the liaison officer on a prime cost sum basis. This payment shall only be made for the period for which the duties of the liaison officer are required and not necessarily for the full duration of the contract. The remuneration of the CLO shall be R5000 / month as determined by the employer.

(c) Period of employment of the community liaison officer

The period of employment of the community liaison officer shall be as decided upon jointly by the contractor, engineer and employer.

B1232 SUBCONTRACTORS

Over and above the stipulations of clause 8 of the General Conditions of Contract 1998, regarding subletting of part of the works, it is a condition of the contract that an approved subcontractor shall not sublet part of his work, covered in his appointment by the main contractor, to another subcontractor without the consent and approval of the engineer. Subletting shall in all cases be critically considered by the engineer.

In addition to the provisions of clause 8 of the general conditions of contract regarding subcontracting of the works, it is a requirement of this contract that an approved subcontractor shall not further subcontract work subcontracted to him by the main contractor, to another subcontractor without the consent and approval of the engineer. Subcontracting shall in all cases be critically considered by the engineer. The engineer reserves the right to limit the extent or the volume of work subcontracted by the contractor, should he deem it necessary in terms of progress or quality of workmanship.

B1233 WORKMEN'S COMPENSATION ACT

All labour employed on the site shall be covered by the Workmen's Compensation Act. The contractor shall pay in full, including the payment of the necessary levies, such amounts, as are due in terms of the Act. The contractor at the commencement of the contract shall resolve the manner in which Workmen's Compensation will be handled. Amounts paid by the contractor shall not be included in the wage rates but shall be an extra payment allowed for by the contractor.



Contractor



Witness 1



Employer



Witness 1

B1234 MEASUREMENT AND PAYMENT

Add the following items:

ITEM		UNIT
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B12.01	Locating Existing Services	Provisional Sum
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ITEM		UNIT
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B12.02	Hand Excavation to determine the positions of existing services	
--------	---	--

To determine the positions of existing services	cubic metre (m ³)
---	-------------------------------

Measurement and payment shall be as specified for item 22.01 in the standard specifications.

ITEM		UNIT
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B12.03	Quality Control Test Ordered by the Engineer	
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Quality Control Test Ordered by the Engineer	Prime Cost Sum
--	----------------

ITEM		UNIT
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B12.04	Provision for a Community Liaison Officer	
--------	---	--

Provisional sum for the payment of the Community Liaison Officer	Provisional Sum
--	-----------------

ITEM		UNIT
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B12.05	Provisional sum for protection and/ relocation of existing services by others	
--------	---	--

Provisional sum for the payment of the protection and/ relocation of existing services by others	Provisional Sum
--	-----------------

ITEM		UNIT
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B12.06	Provisional sum for payment of EPWP Branded contract notice board as instructed by Engineer	
--------	---	--

Provisional sum for the payment of the EPWP Branded contract notice board	Provisional Sum
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ITEM		UNIT
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B12.07	Provisional sum for payment of the compensation of landowners	
--------	---	--

Provisional sum for compensation of landowners	Prime Cost Sum
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Contractor

Witness 1

Employer

Witness 1

ITEM	UNIT
B12.08 Relocation of services by Contractor	
Supply, lay, bed, backfill & test following reticulation	
(a) uPVC Class 9 110mm	m
(b) uPVC Class 9 75mm	m
(c) HDPE Class 10 50mm	m
(d) HDPE Class 10 32mm	m

ITEM	UNIT
B12.09 Percentage for charges and profit on the provisional sums for contractor's cost and profit	
Percentage for charges and profit on the provisional sums	Percentage (%)

Expenditure of the above item shall be made in accordance with the general conditions of contract.

The tendered percentage is a percentage of the amount actually spent under all the provisional sums sub-items, which shall include full compensation for the handling costs of the contractor, and the profit."

ITEM	UNIT
B12.10 Training allowance paid to targeted labour in terms of formal training and including engineering student training for the duration of the contract	
(a) Training allowance paid to targeted labour in terms of formal training	Prime Cost Sum
(b) Extra-over for administration of payment for training	Percentage (%)

Expenditure of the above item shall be made in accordance with the general conditions of contract.

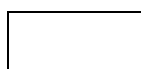
The tendered percentage is a percentage of the amount actually spent under all the provisional sums sub-items, which shall include full compensation for the handling costs of the contractor, and the profit."

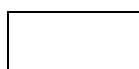
ITEM	UNIT
B12.11 Topographical survey	
(a) Topographical survey	Prime Cost Sum
(b) Extra-over for administration of payment for Topo survey	Percentage (%)

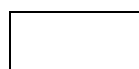
Expenditure of the above item shall be made in accordance with the general conditions of contract.

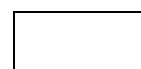
The tendered percentage is a percentage of the amount actually spent under all the provisional sums sub-items, which shall include full compensation for the handling costs of the contractor, and the profit."

ITEM	UNIT
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Contractor


Witness 1


Employer


Witness 1

B12.12 Geotechnical Investigation

(a) Geotechnical Investigation	Prime Cost Sum
(b) Extra-over for administration of payment for Geotechnical Investigation	Percentage (%)

Expenditure of the above item shall be made in accordance with the general conditions of contract.

The tendered percentage is a percentage of the amount actually spent under all the provisional sums sub-items, which shall include full compensation for the handling costs of the contractor, and the profit."

ITEM**UNIT****B12.13 Environmental Impact Assessment**

(a) Environmental Impact Assessment	Prime Cost Sum
(b) Extra-over for administration of payment for Environmental Impact Assessment	Percentage (%)

Expenditure of the above item shall be made in accordance with the general conditions of contract.

The tendered percentage is a percentage of the amount actually spent under all the provisional sums sub-items, which shall include full compensation for the handling costs of the contractor, and the profit."

*Contractor**Witness 1**Employer**Witness 1*

SECTION 1300: CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS**B1302 GENERAL REQUIREMENTS****(a) Camps, constructional plant and testing facilities**

Add the following:

"The contractor shall, at each area where work is being undertaken, provide on a daily basis at least one portable chemical latrine unit for use by construction workers employed on the project. The latrine units shall be serviced daily and kept in a hygienic and orderly state to the satisfaction of the engineer. No separate payment shall be made for this requirement and shall be deemed to be included in the rates tendered for the contractor's time-related obligations."

B1303 PAYMENT

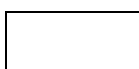
ITEM	UNIT
B13.01 The contractor's general obligations	(As specified)

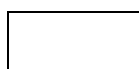
Add the following after the fifth paragraph:

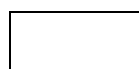
"The combined total tendered for sub-items (a), (b) and (c) shall not exceed 15% of the tender sum, excluding VAT.

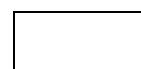
Should the contractor be of the opinion that 15% is inadequate to cover his costs in terms of section 1300, he shall indicate separately with his tender where such costs have been allowed for in his tender. If no such indication is given, the contractor shall not at any stage during the contract for any reason whatsoever claim additional compensation under this item."

ITEM	UNIT
B13.01 The contractor's general obligations	
(d) Health and Safety obligations	Month
(e) Health and Safety Audits conducted by Independent company	Provisional Sum
(f) Percentage for charges and profit on the provisional sums for Item (e) above.	Percentage (%)


Contractor


Witness 1


Employer


Witness 1

SECTION 1400: HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL**B1402 OFFICES AND LABORATORIES****(a) General**

Add the following:

"The facilities to be provided for the engineer in terms of these specifications shall be fenced off by a two metre high security fence. A security gate shall be provided in the fence which shall be guarded at all times by an acceptable watchman provided by the contractor.

The engineer's establishment may be incorporated within the contractor's establishment provided that the preceding requirements are met to the satisfaction of the engineer.

b) Offices

Add the following new sub-sub-clause:

"(xviii) The engineer's site supervisory staff shall use cellular telephones for site communication purposes. Provision is made in the bill of quantities for separate payment of operating costs of such cellular phones."

SECTION 1500: ACCOMMODATION OF TRAFFIC**B1502 GENERAL REQUIREMENTS****(e) Access to properties**

Add the following:

"Where the alignment of the new road coincides with the alignment of the existing road, a number of accesses to private properties will have to be operational and maintained during the constructional period. No separate payment will be made for providing acceptable and safe access across the new road at all times during construction of the road."

(i) Traffic safety officer

Add the following after subclause (viii):

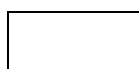
"(ix) be responsible for contacting all the relevant authorities in the event of an accident on the site of the Works

(vi) arrange for the removal of broken down vehicles that obstruct the normal traffic flow

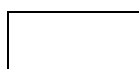
The Contractor shall provide the traffic safety officer with all the necessary resources to carry out his duties as specified, inter alia, light delivery van (LDV), personnel, warning signs and revolving amber flashing lights. A warning sign with the words "CONTRACTOR TRAFFIC CONTROL" and/or "AANNEMER VERKEERSBEHEER" in clearly legible letters shall be mounted on the vehicle at least 1,5m above ground level to be clearly visible. The vehicle shall be equipped with two revolving amber-coloured flashing lights with a minimum intensity of 55W. The flashing lights shall be switched on and the warning sign be displayed at all times when the vehicle is used on the site.

No separate payment will be made for the traffic safety officer, his vehicle, personnel and equipment and the cost thereof shall be included in the Contractor's cost for his establishment and general obligations (Section 1300)."

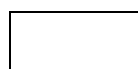
Add the following new subclauses:



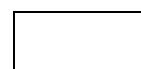
Contractor



Witness 1



Employer



Witness 1

“(j) Handing over the site

The total extent of the site between the limits of construction as described in this document and indicated on the drawings will be handed over to the contractor at the commencement of the contract period. The engineer however reserves the right to adjust this arrangement should progress or safe passage of traffic warrant such a change.

“(k) Use of explosives in close proximity of temporary deviations

The contractor shall arrange all necessary traffic control and other requirements to safeguard the traffic on temporary deviations during blasting operations.

“(l) Land taken up for deviations

Negotiations with landowners to obtain the land taken up by temporary deviations will be undertaken by the employer. A prime cost sum is allowed in the bill of quantities for payment of compensation to affected landowners. All other negotiations regarding temporary access to properties, land-use, fencing requirements etc. shall be dealt with by the contractor in conjunction with the engineer and be confirmed in writing and be kept on record by the contractor.

“(m) Maximum lengths of construction areas

A temporary deviation, where the proposed road follows the existing route shall be constructed along the length of existing road. Traffic shall generally be accommodated as follows:

On a two-way two lane gravel deviation (Class 1) constructed partially outside or adjacent to the existing road reserve boundaries of road.

- (i) On one-way single lane gravel deviation (Class 2) constructed inside the existing road reserve boundaries and on either side of road. In this instance special cognisance shall be taken to accommodate traffic to private properties.

A maximum length of one section of approximately 5,0km or two sections of 3,0km each of deviation (Class 1 or 2) shall be operational at a time and no relieve of this limitation shall be considered by the engineer except where the programme necessitates such at the construction of bridges.”

B1503 TEMPORARY TRAFFIC CONTROL FACILITIES

Add the following after the first paragraph:

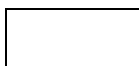
“All temporary road signs, devices, sequences, layouts and spacing shall comply with the requirements of the Road Traffic Act, 1996 (Act 93 of 1996), the National Road Traffic Regulations, 2000, the South African Road Traffic Signs Manual, the requirements of the relevant road authority and the drawings. All temporary traffic control facilities shall comply with the guidelines set in SA Road Traffic Signs Manual, Volume 2, Chapter 13: Roadworks Signing, (SARTSM, June 1999, obtainable from the Government Printer, Pretoria).”

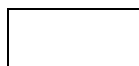
“(b) Road signs and barricades

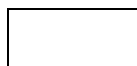
Add the following:

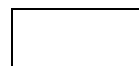
“All the temporary road signs are to be mounted on posts as specified in section 5600 of the specifications. Provision shall be made for the supply and erection of the signs and the maintenance of the signs during the construction period. Provisions shall also be made for the removal of the temporary road signs on completion of the construction work when such signs are no longer required.

Temporary road signs and channelization devices shall be manufactured in accordance with the latest edition of the South African Road Traffic Signs Manual (June 1999) and placed as shown on the drawings and in Road Signs


Contractor


Witness 1


Employer


Witness 1

Note 13. Delineators shall be manufactured from a non-metal material and shall be mounted on a base section also manufactured of non-metal material. Single as well as back-to-back mounted delineators are required.

The obligation to arrange safe passage of traffic shall always be vested with the contractor regardless what is indicated on the drawings of the engineer."

(c) Channelization devices and barricades

Add the following:

"Drums shall not be used as channelization devices.

TW 401 and TW 402 delineators shall comply with the following requirements:

- a) It shall be manufactured from a flexible material and shall comply with SABS 1555. The blade portion of the delineator shall be positively affixed to a base unit which in turn shall be stable on its own or be stabilized by means of sandbags when used on the road.
- ii) The blade shall be retro-reflectorised, with class 1 yellow sheeting on the side facing oncoming traffic..
- iii) It shall nominally be 1000mm high x 250mm wide and the bottom edge of the delineator shall not be more than 200mm above the road surface.
- iv) It shall be subject to the approval of the Engineer.

The maximum spacing between centres of delineators shall be as shown on the drawings or as directed by the Engineer."

e) Warning devices

Add the following:

"It is a requirement of this contract that all construction vehicles and plant used on the works will be equipped with rotating amber flashing lights and warning boards as specified in the standard specifications. Construction vehicles travelling outside the limits of construction areas shall however, not operate the warning lights.

The warning lights shall have a base diameter of at least 170mm and the amber bulb cover a height of a least 150mm high. It shall be a requirement that the contractor also provides the engineer's site personnel with warning lights for their vehicles (a maximum of two lights are required) without any payment applicable.

Add the following clause:

B1517 RETRO-REFLECTIVE MATERIAL

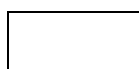
"Retro-reflective material for temporary signs shall comply with the requirements of SABS 1519-1 for weathered material. Tests shall be carried out with a field retro-reflectometer and the testing procedure and classification are described in CLAUSE b 8118. The value of the coefficient of Retro-Reflection shall be at least 60% of the values indicated in Table B8118/1."

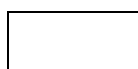
B1518 MEASUREMENT AND PAYMENT

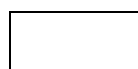
Renumber item 15.01 as B15.01 and add the following:

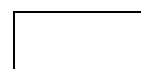
"The tendered rate shall also include for all measures necessary to safeguard traffic on temporary deviations during blasting operations."

Renumber item 15.03 as B15.02


Contractor


Witness 1


Employer


Witness 1

Add the following sub-item:

B15.02 Temporary traffic control facilities

(p) Provision of high visibility safety jackets number (No)

The unit of measurement shall be the number of safety jackets supplied to the supervisory staff.

The tendered rate shall include full compensation for providing and maintaining hats and the jackets equipped with high visibility retro-reflective and/or fluorescent panels in red, yellow and white for the duration of the contract".

SECTION 1700: CLEARING AND GRUBBING

B1702 DESCRIPTION OF WORK

a) Clearing

Add the following:

"Clearing shall include the removal of material to a thickness of up to 150mm in-situ material as ordered by the engineer. No payment shall be made for temporary stockpiling of topsoil material in the case where this material is applied as topsoil after completion of road side slopes.

Should the required depth exceed 150mm, the total volume of material removed shall either be classified as "temporary stockpiling of topsoil" or "unsuitable roadbed material" or "cut to spoil" whichever is applicable as allowed for in the standard specifications. In these cases no payment shall be made for clearing and grubbing.

Clearing as described shall in all cases be undertaken in such a manner that the topsoil is preserved and not contaminated with other debris or rubbish. Cross-sections for the determination of earthworks quantities shall be taken after clearing (topsoil or unsuitable roadbed material) and roadbed preparation if applicable.

Payment for gabion boxes and mattresses which have to be removed and the material sorted and stacked shall be made under section 5200"

B1704 MEASUREMENT AND PAYMENT

Change item 17.01 to read as follows:

ITEM	UNIT
B17.01 Clearing and grubbing of:	
Clearing and grubbing hectare	(ha)

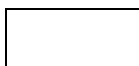
SECTION 1800: DAYWORK SCHEDULE

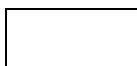
Note: This is a new section added to the Standard Specifications.

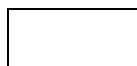
Add the following:

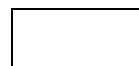
B1801 SCOPE

This section covers the listing of day work items for use in determining payment for work which cannot be quantified in specific pay item "units" in the bill of quantities or work ordered by the engineer during the construction period


Contractor


Witness 1


Employer


Witness 1

which was not foreseen at tender stage for which no applicable rate exists in the schedule or for work of a special or different character warranting special payment as decided by the engineer.

B1802 ORDERING OF DAYWORK

No daywork shall be undertaken unless specific written authorisation is obtained from the engineer.

B1803 MEASUREMENT AND PAYMENT

The engineer may order the following daywork items:

ITEM	DESCRIPTION	UNIT
B18.01	(a) Normal hours of duty of:	
	(i) Unskilled	Hour (h)
	(ii) Semi-skilled	Hour (h)
	(iii) Skilled	Hour (h)
	(iv) Foreman	Hour (h)
B18.02	Hire of construction equipment	
	(a) Excavator 3 – 5 ton	
	(b) TL Backactor	Hour (h)
	(c) Front end loader	Hour (h)
	(d) Platform truck	Hour (h)
	(e) Tip truck	Hour (h)
	(f) Grader (CAT 140G or similar)	Hour (h)
	(g) Walk behind roller (Bomag BW90 or similar)	Hour (h)
	(h) Mechanical Broom	Hour (h)
	(i) D6 Dozer	Hour (h)
	(j) Compressor	Hour (h)
	(k) Submersible dewatering pump	Hour (h)
		Hour (h)

The unit of measurement shall be the actual number of hours worked by labourers or foremen or an item of plant.

The tendered rates shall include full compensation for all cost items including overheads, head-office expenses and profits as described in subclause 40(3) of the general conditions of contract and shall be subject to contract price adjustment as provided for in the contract.

The mark-ups on daywork items in accordance with the Appendix to the Tender shall not be applicable on daywork items listed in the bill of quantities in terms of the above specifications. In the event of new daywork rates being requested for items not appearing in the bill of quantities, then the provisions of the general conditions of contract and the Appendix to the Tender shall apply.

Prior to the commencement of any work by the labourers described under item B18.01, the contractor must obtain written consent from the engineer regarding the classification and composition of all labourers in terms of “unskilled” and “skilled” labourers required for the work as ordered by the engineer.”

Contractor

Witness 1

Employer

Witness 1

SECTION 2100 : DRAINS**B2103 BANKS AND DYKES**

Add the following:

“Mitre banks at culvert inlets should be considered at such a skew angle that it guides the water into the inlet with a minimum loss of velocity (energy).”

B2104 SUBSOIL DRAINAGE**(a) Materials****(i) Pipes**

Delete the last sentence of the fifth paragraph and substitute it with the following:

“Perforation for 100mm pipes shall be spaced in two rows, one on each side of the vertical centre line of the pipe, and at one third of the circumference. The perforation for the 150mm pipes shall be spaced in four rows, two as described for 100mm pipes, and the other two rows at two thirds of the circumference.”

(ii) Synthetic-fibre filter fabric

Add the following:

“All filter fabric shall be a non-woven needle punched type material and must be approved by the engineer. Filter fabrics shall have a minimum co-efficient of permeability of 3×10^{-3} m per second.”

SECTION 2200 : PREFABRICATED CULVERTS**B2201 SCOPE**

Add the following:

“Section 2200, Prefabricated culverts will read, Section B2200, Constructed culverts.

The attention of the contractor is drawn to the fact that information given on the plans, longitudinal sections or drainage schedules may have to be altered to suit actual site conditions and, therefore, the contractor shall only construct these culverts after the engineer has verified the information on the drawings from detail surveys taken on site by the contractor as directed by the engineer.

Precast units shall be ordered by the contractor from actual measurements of length acquired on the site and not from lengths stated in the drainage schedule or from the bill of quantities.

No precast units shall be ordered until the engineer has satisfied himself that the proposed units have been manufactured to the required tolerances and loading standards. The engineer must be given the opportunity to load test units if he considers this necessary”.

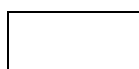
B2203 MATERIALS**(f) Skewed Ends**

Delete the second and third paragraphs and substitute with the following:

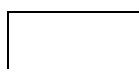
“Precast portal and rectangular culverts placed on a skew shall be supplied with cast in situ skewed ends as shown on the drawings. In situ skew ends are to be constructed simultaneously with the wingwalls and headwalls”.

B2204 CONSTRUCTION METHODS

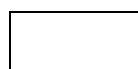
Add the following:



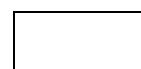
Contractor



Witness 1



Employer



Witness 1

"In all cases where soft founding materials is classified as suitable for culvert bedding construction, the in situ material shall be ripped, moistened and compacted to 90% or 93% modified AASHTO density. The depth of preparation and compaction of founding material shall be as indicated on the drawings or as specified by the engineer. Allowance for measurement and payment for this work is made in the bill of quantities under this section."

B2205 EXCAVATION FOR CONSTRUCTION BY TRENCH METHOD

Add the following subclauses:

"(d) Drainage of excavations

The contractor shall apply suitable, effective drainage and dewatering methods for preventing the ingress of water into the excavation and to keep them dry.

Drainage measures, with the exception of pumping, shall be maintained until the backfilling has been completed. Between various construction stages, pumping may be interrupted in consultation with the engineer.

Any draining or pumping of water shall be done in a manner as will preclude the concrete or materials or any part thereof from being carried away.

Allowance for measurement and payment for dewatering and keeping dry of culvert excavations is made in the schedule in this section".

B2211 BACKFILLING OF PREFABRICATED CULVERTS

Change the last sentence in the fourth paragraph to read "90% or 93% as shown on the drawings or as directed by the engineer."

B2212 INLET AND OUTLET STRUCTURES, CATCHPITS AND MANHOLES

(b) Concrete work

Add the following:

"The type of surface finish for in situ concrete in the culverts shall be as indicated on the drawings. Generally all exposed faces shall be of Class F2 formwork and faces covered by backfill shall be Class F1. The top of parapet walls and wingwalls shall be finished to a Class U2 surface finish."

(h) Prefabricated inlet and outlet structures

Add the following:

"The use of precast concrete inlets and outlets as described in clause 2212(h), shall not be allowed under any circumstances. Cast in situ concrete wingwall type inlets and outlets shall be constructed as indicated on the drawings and shall be in accordance with section 6000 of the Standard Specifications. Allowance for measurement and payment for wingwall type inlets and outlets is made in the schedule in this section."

B2218 MEASUREMENTS AND PAYMENT

Add the following:

"The tendered rate shall be full compensation for the cutting, by means of mechanical saw (angle grinder) and finishing off of the pipes for the specific angle of skew at which the pipes must be laid. The tendered rate for concrete pipe culverts shall include the additional cost of units that are half the standard length. The standard length of a concrete pipe is 2.44m"


Contractor


Witness 1


Employer


Witness 1

SECTION 2300: CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES AND CONCRETE LININGS FOR OPEN DRAINS

B2301 SCOPE

Add the following:

“The position and length of the following types of concrete kerbs and channels are indicated on the standard drawings.

Type B	:	Precast concrete kerbing, semi-mountable (SABS 927-1969)
Type C	:	In situ concrete kerbing at intersections
Edge beam	:	In situ concrete kerbing at farm access and bus stops

B2304 CONSTRUCTION

(d) Slip form kerbing

Add the following:

“Slip-form kerbing shall under no circumstances be allowed.”

(e) Cast in situ kerbs and channels

Add the following:

“Forming and templates used to form joints between alternate sections shall be of steel plate of which the thickness shall not be less than 5mm.”

Add the following new subclauses:

(i) Construction sequence

Replace paragraphs (i), (ii) and (iii) with the following:

“In all cases where kerbing and/or channelling adjoin the bituminous surface of the road, the kerbing and/or channelling may only be constructed after the bituminous surface has been completed.

Before commencing with the kerbing and/or channelling, the surfacing and the base, shall be accurately cut to line with a mechanical saw to a minimum depth of 75mm. After excavation the concrete shall then be cast against the cut surface without formwork. All material outside the cut line must be carefully removed to the required thickness of concrete without damaging the edge before commencing with the casting of the concrete. No payment shall be made for repair work as instructed by the engineer to damage caused by the cutting/excavating process of surfacing and base layers. Any concrete spilt onto the surfacing shall immediately be removed and cleaned. Where so required by the engineer, the contractor shall, without any additional compensation, paint emulsion over the stained surface.

Add the following subclause:

(k) Formwork and finish

“Formwork and finish of concrete kerbs shall comply with the requirements of section 6200. All visible edges on the sides or at joints of cast in situ concrete kerbs or channels shall be rounded with a rounding tool.”


Contractor


Witness 1


Employer


Witness 1

SECTION 3100: BORROW MATERIALS**B3102 NEGOTIATIONS WITH OWNERS AND AUTHORITIES**

Add the following to sub-clause 3102(a):

"Arrangements regarding to access to borrow pits and the alignment of haul roads shall be made between the contractor and the owners of the land on which borrow pits are situated. The engineer's representative on site shall be present at all such negotiations, which shall be confirmed in writing by the contractor. All costs involved with such negotiations as well as the requirements contained in clause 3102 and clause 1225 of the specifications shall be borne entirely by the contractor and will be deemed to have been included in his rates for borrow materials."

Add the following to sub-clause 3102(c):

"The contractor shall also adhere to all statutory requirements including applying for and completing Environmental Programme Management documents (EMP) for the Department of Mines and Energy. All costs for application and completion of EMP shall be borne by the contractor and will be deemed to have been included in his rates for borrow materials."

B3103 OBTAINING BORROW MATERIALS**(a) General**

Add the following:

"The expropriation and compensation for land from which borrow materials is obtained shall be negotiated and paid for by the employer."

(b) Use of borrow materials

Add the following to the second paragraph of this subclause:

"Compensation to owners and arrangements with owners for taking material from alternative borrow pits proposed by the contractor shall be the contractor's responsibility and entirely at his own expenses."

B3104 OPENING AND WORKING BORROW PITS AND HAUL ROADS**(c) Excess overburden**

Add the following:

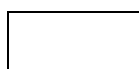
"All excess overburden removed at borrow pits shall be replaced over the entire area of the borrow pit after initial shaping has been undertaken in an even layer. Payment for this requirement shall be deemed to be included in pay item 31.01

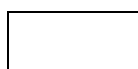
f) Protecting borrow pits

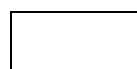
Add the following:

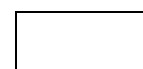
"It is a requirement of the contract that, where-ever required by the landowner, borrow pits shall be provided with temporary fencing around the perimeters of the borrow areas. The temporary fencing shall be erected prior to entering the land for borrowing purposes and shall on final finishing of the borrow areas as specified, be dismantled and removed and discarded as decided upon by the contractor. Payment for temporary fencing around borrow pits shall be made in accordance with the stipulations of section 5500 in these specifications."

Add the following new subclause:


Contractor


Witness 1


Employer


Witness 1

“(h) Haul roads

Haul roads to designated borrow pits along the road shall be constructed along alignments as instructed by the engineer and shall be maintained at the contractor’s own cost to the satisfaction of the engineer.”

B3105 FINISHING-OFF BORROW AREAS AND HAUL ROADS

Add the following to this clause:

"Should the employer, engineer or any other authority approved by the engineer, require a higher standard of shaping and finishing off of borrow pits than specified in the standard specifications, measurement and payment for such extra work shall be made using daywork items.

The above notwithstanding, the finishing-off borrow pits and haul roads must be to a minimum requirement acceptable to the Department of Minerals and Energy. The payment to achieve the minimum standard shall be deemed included in the pay items for borrow materials"

SECTION 3300: MASS EARTHWORKS**B3305 TREATING THE ROADBED****(a) Removing unsuitable material**

Add the following to the third paragraph:

"For the purpose of this contract, excavation and removal of in-situ clayey material over areas where the road is in a fill condition, shall be classified as removal of unsuitable material, irrespective of the stability or moisture condition of the in-situ material".

(c) Preparing and compacting the roadbed

Delete the last sentence of the first paragraph "If necessary, roadbed.....depth of compaction" and replace as follows:

"Where demarcated by the engineer , prior to the roadbed being scarified, the excess in situ material forming part of the present roadway, and within the limits of the roadbed, and in close proximity of the layer works, but falling within the limits of the layerworks, shall be bladed to controlled level in order to achieve the required level and necessary depth of compaction."

B3307 FILLS**(c) Constructing a pioneer layer**

Add the following to the first paragraph:

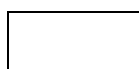
"For the purpose of this contract, pioneer layers shall be completed by means of eight-pass roller compaction using vibratory rollers as specified in subclause 3304(b) of the standard specifications."

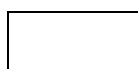
(d) Benching

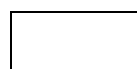
Add the following:

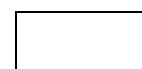
"Benching of fill and pavement layer material is required to be undertaken into the existing fill embankments and pavement layers. No additional payment shall be made over and above the normal pay items applicable to earthworks and pavement layers where benching is required for widening of the existing road formation. Benching shall be undertaken as shown on the drawings.

It is a requirement that benching shall always be started at the bottom of the existing fill progressing to the top of the formation. The dimensions and details of benching are shown on the drawings."


Contractor


Witness 1


Employer


Witness 1

SECTION 3400: PAVEMENT LAYERS OF GRAVEL MATERIAL**B3402 MATERIALS****(a) General**

Add the following:

"Material requirements for gravel pavement layers are in accordance with TRH4 and shall be indicated on the drawings."

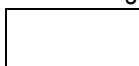
Add the following:

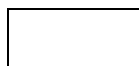
Tensor TriAx Stabilisation Geogrid – Model – TX160

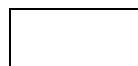
1. The stabilisation geogrid shall be Tensor TriAx TX160.
2. The stabilisation geogrid shall have European Technical Approval (ETA) Certification for the intended use of stabilisation of unbound layers by way of interlock with the aggregate, issued in accordance with European Organisation for Technical Assessment (EOTA®) Technical report TR41.
3. The stabilisation geogrid shall be manufactured in accordance with a management system which complies with the requirement of BS EN ISO 9001:2008. If required by the Engineer, the Contractor shall provide evidence of the manufacturer's certification of its Quality Assurance System.
4. The stabilisation geogrid shall be manufactured from polypropylene.
5. The stabilisation geogrid class shall be 'punched and stretched'.
6. The stabilisation geogrid shall have a hexagonal structure with ribs oriented in three directions. The resulting triangular-shaped apertures are defined by ribs of rectangular cross section having a high degree of molecular orientation which is continuous through the node.
7. The Radial Secant Stiffness measured at 0.5% strain shall be 390kN/m (within a tolerance of -75kN/m), measured in accordance with EOTA® Technical report TR41 B.1. (1)
8. The Radial Secant Stiffness Ratio shall be 0.8 (within a tolerance of -0.15), measured in accordance with EOTA® Technical report TR41 B.1. (1)
9. The Junction Efficiency shall be 100% (within a tolerance of -10%) measured in accordance with EOTA® Technical report TR41 B.2. (1)
10. The Hexagon Pitch of the geogrid shall be 80mm (within a tolerance of ± 4 mm). Where hexagon pitch is the distance between alternate parallel ribs, measured in accordance with EOTA® Technical report TR41 B.4. (1)
11. The stabilisation geogrid shall have a minimum of 2% finely divided carbon black, well dispersed in the polymer matrix to inhibit attack by ultra violet light, determined in accordance with ASTM D1603-06
12. The minimum working life is assumed to be 100 years in natural soils with a pH value between 4 and 9 and in soil temperatures less than 15°C, and is expected to be 50 years in natural soils with a pH value between 4 and 9 and in soil temperatures less than 25°C, when covered within 30 days. Determined in accordance with EN 12224, EN 13438, and EN 14030.

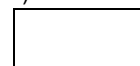
For product identification purposes the following characteristics shall be used.

- a. The Radial Secant Stiffness measured at 2% strain shall be 290kN/m (within a tolerance of -65kN/m), measured in accordance with EOTA® Technical report TR41 B.1. (1)
- b. The Hexagon Pitch of the geogrid shall be 80mm (within a tolerance of ± 4 mm). Where hexagon pitch is the


Contractor


Witness 1


Employer


Witness 1

distance between alternate parallel ribs, measured in accordance with EOTA® Technical report TR41 B.4. (1)

c. Weight of the product shall be 0.220 kg/m² (within a tolerance of -0.035kg/m²) Measured in accordance with EOTA® Technical Report TR41 B.3. (1)

Notes

The values declared are expressed as a nominal value and a tolerance in such a manner that the nominal value + or – the tolerance represents 99.7% of the population, i.e. a 99.7% 'tolerance interval'.

B3405 CONSTRUCTION TOLERANCES

(f) Surface regularity

Add the following:

"Where transverse construction joints in base layers are made between newly and previously constructed sections, the contractor shall exercise level control at such joints by installing level poles at 5m intervals on either side of the joint of the layer covering at least a 30m length into the newly constructed section."

B3406 QUALITY OF MATERIALS AND WORKMANSHIP

Add the following:

"Test results and measurements shall be assessed by the engineer according to the provisions of Section 8300 of the standard specifications".

SECTION 3500 : STABILISATION

B3503 CHEMICAL STABILISATION

(a) Preparing the layer

Add the following:

Breaking-down and removal of oversize material and addition of material to make to required thickness shall be completed before stabilising agent shall be added."

(h) Curing the stabilised work

Add the following:

"It is the intention of this contract that curing of chemically stabilised layers shall be undertaken in accordance to protection method (ii) as specified. Any other method of curing shall only be allowed in special circumstances as decided upon by the engineer, but no additional payment whatsoever over and above that allowed for in item 35.05 will be made."

(i) Construction limitations

In table 3503/1, replace "8 hours" with "6 hours."

B3506 TOLERANCES

(b) Uniformity of mix (chemical stabilisation)

Add the following:


Contractor


Witness 1


Employer


Witness 1

"All pavement layers, especially layers which are to be chemically stabilised, shall, apart from the application of other mixing equipment, include at least two motor grader blade mixing operations to the full depth of the layer.

The in-place mixing of chemical stabilising agents with gravel materials shall be executed in such a manner that the coefficient of variation in the uniformity of the mix shall not exceed 30% when the stabilised layer is subjected to the chemical titration test, TMH1 method A15d. For plant-mixed stabilised materials the coefficient of variation shall not exceed 20%.

The coefficient of variation, C_v , is calculated by the formula:

$$C_v = \frac{S_n}{X_n} \times 100 \text{ where,}$$

S_n = standard deviation of n determinations of stabilising agent content

X_n = mean percentage of n determinations of stabilising agent content with n = 4 minimum."

B3509 QUALITY OF MATERIALS AND WORKMANSHIP

Add the following:

"The preparation of chemically stabilised material for the determination of the modified AASHTO density of the material shall be executed in accordance with TMH1 test method A16T and compaction thereof in accordance with TMH1 test method A7."

SECTION 4300 : SEALS: MATERIALS AND GENERAL REQUIREMENTS

B4302 MATERIALS

- (a) Bituminous binders

ADD THE FOLLOWING PARAGRAPH AFTER THE INTRODUCTORY PARAGRAPH:

"Any tests referred to in Technical Guideline (TG1)"Use of Modified Bituminous Binders in Road Construction, October 2001", published by the Asphalt Academy, shall supersede those specified in the Colto Standard Specifications for Road and Bridge Works 1998."

- (v) Homogeneous hot applied polymer modified binders (summer grades)

DELETE THE ENTIRE SUB SUB-CLAUSE AND REPLACE WITH THE FOLLOWING:

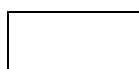
- "(1) Base bitumen

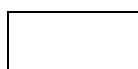
The base bitumen shall comply with the requirements of SABS 307 or a blend of such bitumens. In addition, the chemical composition of the bitumen shall be such as to permit blending with the proposed polymer to form a stable product that will satisfy the relevant requirements.

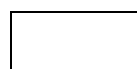
- (2) Polymer

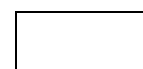
The type and percentage of polymer to be blended with the bitumen is not prescribed, however, the contractor shall state, in the space provided in the schedule of quantities, the type of polymer he will use.

- (3) Polymer modified blend


Contractor


Witness 1


Employer


Witness 1

The polymer modified bitumen shall be blended at the factory.

The polymer modified bitumen to be used shall be binder class S-E1 and shall satisfy the relevant requirements listed in table B4302/7.

The binder for the days production shall be tested on site to determine the softening point before any seal work is commenced with. No claim for delays due to this requirement shall be considered. As a control, a hand held spindle viscometer shall be used to monitor the viscosity of the binder at the spray temperature.

TABLE B4302/7: Requirements for hot applied homogeneous modified binders

Property	Unit	Test Method	Binder Class
			S-E1
Softening point (R&B)	oC	MB-17	50 (min)
Dynamic viscosity @165oC	Pa.s	MB-18	0,55(max)
Ductility @ 15oC	cm	MB-19	75 (min)
Force ductility @ 15oC	N	-	Report*1
Complex shear modulus ($G^* / \sin \delta$ @ rad/s)	oC	AASHTO: TP 5	Report
Creep stiffness: Bending Beam Rheometer	mPa	AASHTO: TP 1	Report
Elastic recovery @ 15oC	%	MB-4	50 (min)
Flash point	OC	ASTM: D93-97	230 (min)
Stability (R&B diff. @ 160oC)	oC	MB-6	5 (max)
Adhesion @ 5oC	%	MB-7	90 (min)
Torsional recovery @ 15oC (*3)	%	MB-5	Report
Torsional recovery @ 25oC	%	MB-5	Report
Properties after ageing (RTFOT)			
Difference in softening point	oC	MB-17	-2 to +8
Elastic recovery @ 15oC	%	MB-4	40 (min)
Mass change	%	MB-3	1.0 (max)
Dynamic viscosity @ 165oC	Pa.s	MB-18	Report
Torsional recovery @ 25oC	%	MB-5	Report

*** Note: The properties listed “report only” will only be carried out on instruction by the engineer. The contractor shall not be responsible for the costs of any such testing.**

(b) Aggregates

(i) Aggregates for seals

ADD THE FOLLOWING:

"The nominal aggregate size for application of the double seal shall be 13,2 mm and 6,7 mm."

(1) Grading

ADD THE FOLLOWING:

"Only Grade 1 aggregate shall be used for the construction of seals".


Contractor


Witness 1


Employer


Witness 1

(3) Shape

ADD THE FOLLOWING:

“The average least dimension (ALD) of the 13,2 mm nominal size aggregate, shall not be less than 8,0 mm when tested in accordance with TMH1 test method B18.

(d) Hydrophilic aggregates

(i) Pre-coating of aggregate for stockpiling or for immediate use:

In the fourth paragraph, delete “12 litre” in the second sentence, and add the following new sentence:

“Precoating fluid shall be manufactured from petroleum based products. The use of tar based precoating fluids will not be permitted. For tender purposes the nominal quantity of precoating fluid for the relevant nominal aggregate sizes is specified in table B4302/14.”

Table B4302/14: Nominal Application Rates for Precoating Fluid

Nominal aggregate size (mm)	Nominal precoating application rate (l/m ³)
19,0	12
13,2	16
9,5	19
6,7	22

ADD THE FOLLOWING SUB CLAUSES:

“(e) Water for diluting emulsions

Water used for the dilution of emulsions on site shall be suitable potable water, and each source of water used shall be tested for compatibility with the emulsion before it is added to the bulk emulsion.

(f) Testing of polymer modified bitumen/emulsion

Testing shall be in accordance with the methods described in “Technical Guideline: The use of Modified Bituminous Binder in Road Construction TGI (October 2001), published by the Asphalt Academy.

During spraying of each batch, the contractor shall draw off at least three test samples of the modified bitumen/emulsion product and submit them to the engineer for acceptance testing purposes. The supplier shall submit all his tests results to the engineer for correlation purposes, failing which; the engineer’s results shall be binding in terms of acceptance or rejection of the product.”

ADD THE FOLLOWING SUB CLAUSE:

“(g) Sources of aggregates

Contractor

Witness 1

Employer

Witness 1

Aggregates for seal work shall preferably be obtained from sources within the Limpopo Province e.g. crushing plants at Polokwane, Mussina, Tzaneen etc. If, for reasons of limited production rates of seal work aggregate or quality of the aggregates, adequate quantities of aggregates cannot be obtained from local sources, the aggregates may be obtained from sources outside the Limpopo Province. No provision is made in the schedule of quantities for an extra over payment on seal work rates where aggregates have to be obtained from outside sources and tenderers will be deemed to have taken the source of the aggregates into account in their tendered rates."

B4303 PLANT AND EQUIPMENT

(a) General

ADD THE FOLLOWING:

"Apart from the specified capacity and condition of plant used for seal work, the operators and attendants of binder distributors and chip spreaders shall prove their abilities to the engineer to apply the binder and seal work aggregate within the specified tolerances for application rates, widths of application and making good of all seemingly minor defects which may occur during seal work operations. Able operators and attendants shall be kept in service throughout the construction period and not rotated with reserve staff who might not be familiar with the equipment or final product requirements.

The engineer will instruct the removal of incompetent staff from site if satisfactory performance is not achieved and maintained."

(b) Binder distributor

ADD THE FOLLOWING:

"The binder distributor shall be capable of spraying the binder to the specified application rates and to the satisfaction of the engineer.

It is important that the pump of the distributor shall be capable of delivering the binder at the spray-bar nozzles at the correct pressure to obtain the specified application rates, irrespective of the viscosity properties of the proposed binder.

The spray bar of the distributor shall be fitted with fishplates at the outside edge of the bar to prevent over spraying onto gravel shoulders when spraying adjacent to such shoulders, or staining of concrete elements on the edge of the surfacing of the road. If instructed by the engineer, the outside nozzles of the spray bar shall be turned to a 45° angle to achieve a thickened edge of binder along the outside limits of the seal work area.

A calibration certificate, not older than 3 months, for the binder distributor shall be presented to the engineer before any binder is sprayed.

The binder distributor shall be fitted with a suitable valve or other access gate for taking of samples of the binder for testing purposes".

(c) Chip spreaders

DELETE THE SECOND AND THIRD PARAGRAPH AND REPLACE WITH THE FOLLOWING:

"All chip spreaders for use in seal work operations shall be self-propelled and a minimum of two such chip spreaders shall be available at the site of the work during seal work operations."

Contractor

Witness 1

Employer

Witness 2

- (k) Miscellaneous equipment

ADD THE FOLLOWING:

"Apart from the specified plant and equipment for construction of surfacing seals, the contractor shall provide an additional pneumatic-tyred roller with a mass of at least ten tons to carry out rolling where the back-chipping team operating behind the seal work unit places seal work aggregates by hand in areas which are deficient in stone in terms of the required application rate of aggregate. The pneumatic-tyred roller shall cover the back-chipped areas with at least four passes. No separate payment shall be made for the provision and operation of the additional roller."

B4304 GENERAL LIMITATIONS AND REQUIREMENTS

- (a) Weather limitations

ADD THE FOLLOWING:

"As soon as the minimum air temperature at night is forecast to fall below 8°C, seal work shall cease until warmer weather conditions are experienced. Seal work using polymer modified binder shall not be permitted during the months of May, June, July and August. Winter-grade binders shall not be used in any seal work and the contractor's programme of work shall reflect this limitation. Seal work with polymer modified binder shall also not be permitted if rainy weather is eminent.

Seal work shall also not be undertaken if rain is forecast or imminent.

Application of binder shall not be allowed if existing cracks in the road contain moisture after rainy spells."

B4305 HEATING AND STORAGE OF BITUMINOUS BINDERS

- (e) Homogeneous hot-applied modified binders (summer grade)

IN THE SECOND PARAGRAPH, DELETE "TABLE 4305/3" AND REPLACE WITH "TABLE B4305/3"

TABLE B4305/3: Storage limits for hot homogeneous modified binders

Binder Class	Short term handling		Storage		Spraying/Asphalt mixing		
	Max Temp (oC)	Max Time (hrs)	Max Temp (oC)	Max Time (hrs)	Max Temp (oC)	Min Temp (oC)	Max Time (hrs)
S-E1/S-E2	180	24	150	240	200	185	8
C-E1	160	24	140	240	170	160	8
A-E1/A-E2/A-P1	180	24	140	240	170	160	36

B4307 CONSTRUCTION OF SEAL

- (b) Single and double aggregate seals

- (i) Application of tack coat and aggregate

DELETE THE LAST SENTENCE OF THE FOURTH PARAGRAPH AND REPLACE WITH THE FOLLOWING:

"The contractor shall construct the seal in such a way that the resulting longitudinal joints fall on the planned positions of the line markings."

Contractor

Witness 1

Employer

Witness 1

ADD THE FOLLOWING TO THE FOURTH PARAGRAPH:

"Joints shall be straight and aggregate shall be broomed back in a neat straight line before the next spray. String lines shall be used to demarcate joint edges. All stone-loss and "tram-lining/roping" shall be made good by the contractor at no additional cost."

- (iii) Broom drag and final rolling of aggregate

ADD THE FOLLOWING AFTER THE FIRST PARAGRAPH:

"The broom drag on the newly constructed seal shall not be executed using a rotary broom but a drag broom as specified in subsubclause 4303(e)(i) of the standard specifications. The contractor shall provide a back-chipping team, together with a pneumatic-tyred roller, of such capacity that back-chipping and rolling of aggregate shall be complete within thirty minutes after initial application of the aggregate."

- (iv) Joints between binder sprays

ADD THE FOLLOWING:

"Allowance is made in the schedule of quantities for the provision and use of reinforced paper to ensure neat transverse joints between successive binder applications."

ADD THE FOLLOWING SUBSUBCLAUSES:

- "(vi) Disposal of unused or rejected bituminous products

No unused or rejected bituminous products shall be dumped on the site of the works, nor in other areas, but such products shall be returned to the supplier's production plant.

B4314 TOLERANCES AND FINISH REQUIREMENTS

- (a) New work

- (v) General

ADD THE FOLLOWING:

"Immediately before the tack coat and first application of aggregate is applied, the centre line of the road as well as the edges of the surfacing area shall be demarcated with a clearly visible weatherable fibre rope pegged down with nails driven into the existing surface 15m apart on straight sections, or 3m apart on curves."

- (c) The rate of application

REPLACE THE FIRST PARAGRAPH THE FOLLOWING:

"The maximum permissible variation from the rates of application of aggregate or slurry, as ordered by the engineer, shall be plus or minus 5%.

For binders, the maximum permissible variation from that specified shall be 5% for conventional bitumen and all emulsions (measured net cold), and 5% for hot applied modified binders (measured at spray temperature). Provided he is satisfied that the seal will perform satisfactorily, the engineer may, at his discretion, conditionally accept out of tolerance variations at the reduced rates of payment listed in Table B4314/1 below. However, variations in total binder application rates in excess of those tabled shall be deemed rejected. Rejected sprays will not be considered for payment unless corrected to the satisfaction of the engineer.

Contractor

Witness 1

Employer

Witness 1

A lot for acceptance control purposes shall be at least 2000 litres. Lots smaller than 2000 litres shall be combined with succeeding lots until a combined lot not less than 2000 litres is obtained.

Table B4314/1: Payment Reduction Factors For Conditionally Accepted Binder Application Rates

Conventional bitumen and emulsion. Deviation from specified spray rate Net cold bitumen. (%)	Hot applied homogeneous and non-homogeneous modified bitumen. Deviation from specified rate. At spray temperature. (%)	% Payment of tendered rate for seal
±5,0	±5,0	100%
±6,0	±6,0	97,5%
±7,0	±7,0	95%
±8,0	±8,0	90%
±9,0	±9,0	85%
±10,0	±10,0	80%

ADD THE FOLLOWING AT THE END OF THE LAST PARAGRAPH:

"The completed bituminous surfacing shall be of uniform texture without gaps or patches and shall be free from corrugations and any loose aggregate or binder spillage.

The edges of the completed bituminous surfacing shall be true to line."

SECTION 4500 : DOUBLE SEALS

B4503 CONSTRUCTION

- (a) Application of tack coat and first layer of aggregate

ADD THE FOLLOWING:

"The aggregate for the first layer shall be 13,2 mm nominal size. The application rate of S-E1 binder shall be determined when aggregate properties and other design requirements for the seal have been determined. The nominal rate of application shall be taken as 1,0 ℓ/m² of homogenous hot modified binder at spray temperature.

- (b) Initial rolling

ADD THE FOLLOWING:

"Immediately after application of the aggregate, but before back-chipping operations commence, the first layer of aggregate shall be rolled with one (1) pass of a three wheel steel-wheeled roller with a mass not exceeding 6 ton, if ordered by the engineer, after which pneumatic-tyred rolling shall follow as specified."

- (d) Second application of bituminous binder and aggregate

ADD THE FOLLOWING:

"The aggregate for construction of the second layer shall be 6,7 mm nominal size. The application rate of the S-E1 binder where specified shall be determined when aggregate properties and other design requirements for the seal have been determined. The nominal rate of application shall be taken as 1,0 ℓ/m² homogenous modified binder at spray temperature.

- (h) Precoating of aggregate

ADD THE FOLLOWING:

Contractor

Witness 1

Employer

Witness 1

"The first application of aggregate used in the construction of double seals shall be precoated with "Sacrosote 70" at a rate of 16 ℓ/m³. The precoating shall be undertaken as described in clause 4302(d) of the standard specifications. Precoating of aggregate shall be undertaken sufficiently ahead of sealing operations to permit the aggregate to dry, but at least 72 hours before application of the aggregate. Prior to application of the aggregate no free precoating fluid shall be notable when the aggregate is inspected by handling it."

ADD THE FOLLOWING NEW SUB CLAUSE:

"(i) Construction trial sections

Before the contractor commences with permanent surfacing a successful trial section as described in section 4300 of the project specifications shall be constructed and approved by the engineer."

SECTION 5200 : GABIONS

B5201 SCOPE

Add the following paragraph

"This section also covers the removal, dismantling and stacking of existing gabion work, and the reuse of these materials where authorised by the engineer."

B5203 CONSTRUCTION OF GABION CAGES

(a) General

Add the following new sub-clause:

"(iii) Reno mattresses or similar may be used as alternative to gabion boxes. These Reno mattresses are to be manufactured of 80mm x 100mm mesh (2,5mm diameter wires, diaphragm spacing 0,6m).

B5204 CONSTRUCTING GABIONS

(c) Assembly

Delete and substitute with:

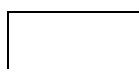
(c) Assembly, erection and stretching

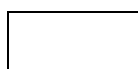
(i) Assembly

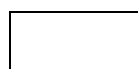
"Prior to assembly, the gabion material shall be opened out flat on the ground and stretched to remove any kinks and bends. The gabion boxes shall then be assembled individually by raising the sides, ends and diaphragms ensuring that all creases are in the correct position and that the tops of all four sides are even. The four corners of the gabion boxes shall be laced first followed by the edges of internal diaphragms to the sides. In all cases lacing shall commence at the top of the box by twisting the end of the lacing wire around the selvages. It shall then be passed round two edges being joined, through each mesh in turn and securely tied off at the bottom. The ends of all lacing wire shall be turned to the inside of the box on completion of each lacing operation.

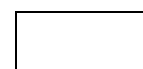
(ii) Erection

Only assembled boxes, or groups of boxes, shall be positioned in the structure. The side, or end, from which work is to proceed, shall be secured to either completed work or by rods or stakes driven into the ground at the corners. These must be secured and reach at least to the top of the gabion


Contractor


Witness 1


Employer


Witness 1

box. Further gabions shall then be positioned in the structure as required, each being securely laced to the preceding one at all corners and diaphragm points.

(iii) Stretching

On completion of erection of a suitable length of gabion, the gabion boxes shall be stretched using a wire strainer or winch of at least one ton capacity firmly secured to the free end of the assembled gabion boxes.

Whilst under tension the gabion boxes shall be securely laced along edges (top, bottom and sides) and at diaphragm points, to all adjacent boxes and shall thereafter be filled."

(d) Rock filling

Add the following new sub-sub-clause:

(iii) General

"Filling shall be carried out only whilst gabion boxes are under tension. Filling material shall consist of rock of size not less than 120mm and not greater than 250mm so placed to produce a neat face and line with a minimum of voids.

Internal horizontal bracing wire shall be provided at 500mm vertical centres or such spacing to ensure a ratio of four to every 1m³ of filling. These bracing wires shall be wrapped around two mesh wires and extended from front to back so positioned to ensure a neat face and line free of excessive bulges and depressions. Gabion boxes shall be filled in stages and horizontal bracing wires inserted as filling is brought up.

Similar bracing wires used vertically shall be provided in 0,5mm deep gabions at 330mm horizontal centres where water falls directly onto gabions or where a neat face is required.

Tension on the gabion boxes shall be released only when sufficiently full to prevent the mesh from slackening.

Gabion boxes shall be overfilled by 20 to 50mm above their tops to allow subsequent settlement of the filling."

Add the following new sub-clauses:

(e) Final wiring

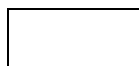
"Closing and wiring down of lids shall proceed as soon as possible after filling operations and certainly in the likelihood of storms or floods during construction. The wiring down shall consist of wrapping around wire at such intervals as required or specified.

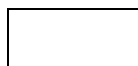
Lids shall be stretched tight over the filling with bars and wired down securely through each mesh along all edges, ends and diaphragms. The ends of all tying and bracing wires shall be turned into the gabion box on completion of all lacing operations.

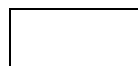
Tightness of mesh, well packed filling and secure lacing is essential in all structures."

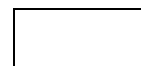
(f) Removal, dismantling and stacking of gabions

"Existing gabions, either damaged or not, that require to be removed or moved to a new location shall be dismantled. Material not required for re-assembly or unsuitable for re-use shall be neatly stacked at approved locations in accordance with the engineer's instructions. Payment will be made only for gabions removed in accordance with the written instruction of the engineer.


Contractor


Witness 1


Employer


Witness 1

Where gabions require moving, or as declared suitable by the engineer are re-usable, the contractor shall re-use all the material, plus supply such new materials as may be required to re-assemble the gabion again to the standard specification for new gabions."

SECTION 5600 : ROAD SIGNS

B5601 SCOPE

"This section also covers the supply and erection of permanent danger plates at culverts and bridges at the locations indicated on the drawings or as directed by the engineer."

B5602 MATERIALS

(g) Retro-reflective material

In the first sentence, replace "SABS 1519" with "SABS 1519-1" and delete "and the adhesion requirements of CKS 191."

Add the following:

"When measured with a field retro-reflectometer in accordance with section B8118, the coefficient of retro-reflection of a retro-reflective material shall not be less than the appropriate value given in Table B8118/1

(k) Black vinyl

In the second sentence, replace "SABS 1519" with "SABS 1519-1" and delete the rest of the sentence.

Add the following sub-clause:

"(m) Temporary covers for road signs

When required, existing road signs shall be fully or partially covered with burlap or other approved material to obscure destinations that are temporarily inapplicable or irrelevant.

The covers shall be neatly applied and firmly fixed in position on the rear side of the sign so that they will be able to withstand strong gusts of wind or eddies caused by passing traffic."

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."


Contractor


Witness 1


Employer


Witness 1

(i) Steel plate road sign boards

Add the following as the fourth paragraph:

"Steel plate used to manufacture guidance signs shall be pre-punched by means of an automated process with 5 mm holes in a rectangular grid pattern not exceeding 150 mm c/c."

(ii) Steel profile road signboards

Add the following:

"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 new sub-clause:

“(e) Application of retro-reflective material

All sign faces shall be faced with diamond grade 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**

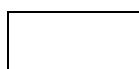
Add the following:

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

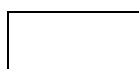
All vegetation obstructing the new or replaced sign board shall be removed and disposed of as instructed by the Engineer."

B5609 MEASUREMENT AND PAYMENT

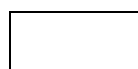
Add the following items:



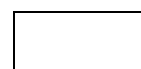
Contractor



Witness 1



Employer



Witness 1

<u>Item</u>	<u>Unit</u>
B56.10 Danger plates at culverts / structures	
(a) Type A storm water culverts (150mm x 600mm)	No
(b) Type B at 90° Curves (450mm x 450mm)	No

The unit of measurement shall include full compensation for be the actual number danger plates erected at storm water structures or at 90° Curves.

SECTION 5700: ROAD MARKINGS

B5702 MATERIALS

(a) Paint

(ii) Retro-reflective road marking paint

Add the following:

"When measured in accordance with SABS Method 1261-1998 within a period of two weeks after application, the coefficient of retro-reflected luminance, R_L , shall be at least 150 mcd/m².lx for white markings and 100 mcd/m².lx for yellow markings.

Retro-reflective road-marking paint shall be used to paint road markings during the contract period and to re-paint all road markings at the end of the maintenance period."

Add sub sub-clause (v):

"(v) Other roadmarking materials

The contractor may use other roadmarking materials which would ensure more durable markings and which would meet the specified performance criteria.

Such materials shall comply with a standard set by a recognised national standards institution. Information on such materials and the standards to which they comply shall be submitted to the engineer for approval prior to the materials being used.

B5705 SURFACE PREPARATION

Add the following at the end of the second paragraph:

"The onus is on the contractor to ensure that the surface on which the road markings are to be applied are sufficiently clean, dry and non-flaky to ensure that the quality of the road markings will not be adversely affected. The contractor is also responsible for protecting roadstuds from being painted over."

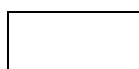
B5707 APPLYING THE PAINT

Add the following:

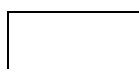
"The Contractor's establishment on site and general obligation shall be deemed to fully include the establishment of the road-marking team, irrespective of the number of times the road-marking team is required to be onsite or is required to move within the site."

B5708 APPLYING THE RETRO-REFLECTIVE BEADS

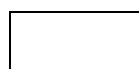
Replace the second sentence with the following:



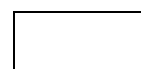
Contractor



Witness 1



Employer



Witness 1

"The rate of application of the beads shall be such that the coefficient of retro-reflected luminance, R_L , specified in section B 5702(a)(ii) is achieved, but shall not be less than 0,34kg/m² of marking."

B5711 GENERAL

Insert the following into the last sentence of the last paragraph between "black paint" and "or chemical paint remover":

" , bituminous emulsion, slurry"

Add the following to the last paragraph:

"Where black paint is used, it shall be matt."

B5714 MEASUREMENT AND PAYMENT

Add the following items:

<u>Item</u>	<u>Unit</u>
B57.07 Establishment of painting unit during the construction period	Lump sum
B57.08 Re-Establishment of painting unit at the end of the maintenance period	Rate Only

The unit of measurement shall be the lump sum to compensate the contractor for the establishment and removal of the painting unit after the retention period.

The tendered lump sum shall include full compensation for the establishment on site and for the removal of all equipment, personnel, etc. as may be required for the application of the road marking.

SECTION 5900: FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS

B5902 FINISHING THE ROAD AND ROAD RESERVE

Add the following to the first paragraph:

"The contractor shall pay special attention to the collection and removal of all waste materials originating from the construction activities. All materials trimmed or excavated from the road shall be collected and removed from the road reserve to the satisfaction of the engineer.

This requirement shall be deemed to be incorporated in the tendered rates for item 59.01 of the bill of quantities or such other items as the contractor may decide upon.

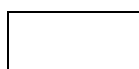
The engineer may order additional finishing of the road reserve which will entail the collection and disposal of loose rocks etc. Payment for this work will be made under daywork items included in section 5900 of the bill of quantities as described in section 1800 of these project specifications."

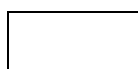
SECTION 6100: FOUNDATIONS FOR STRUCTURES

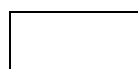
B6105 EXCAVATION

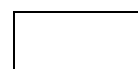
c) Excavation

Add the following paragraphs:


Contractor


Witness 1


Employer


Witness 1

"Where excavation is in soft material, the final 0.75m and in the case of hard material, the final 0.25m of material shall be removed using suitable hand tools such as pick and shovel or pneumatic tools.

SECTION 6400 : CONCRETE FOR STRUCTURES

B6402 MATERIALS

(a) Cement

Replace this sub-section with the following:

"Refer to section 1142 for specification of cement."

CEM I 32,5, CEM II A-S 32,5, CEM II/A-V 32,5, or CEM III A may be used for the manufacture of reinforced concrete members.

B6404 CONCRETE QUALITY

(b) Strength concrete

Add the following paragraph:

"The cement content for any class of structural concrete or mass concrete used in structures shall not be less than 300kg/m³ of concrete.

The contractor must provide the engineer with complete mix designs and materials for strength concrete at least six (6) weeks before the first concrete is cast on the project".

B6405 MEASURING THE MATERIALS

(c) Aggregates

Add the following:

"All concrete for structures shall be manufactured by mechanical mass batching unless authorised otherwise by the engineer for minor concrete structures or for labour-intensive methods."

B6407 PLACING AND COMPACTING

(a) General

Add the following after the third paragraph:

"Concrete shall only be placed up to 20:00 at the latest. Under exceptional circumstances the Engineer may allow night work on condition that proper lighting arrangements can be made and a new and rested shift for night work is provided and ambient temperatures are such as to not adversely affect the setting of the concrete."

B6408 CONSTRUCTION JOINTS

(a) General

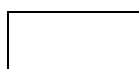
Add the following:

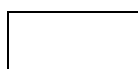
"No construction joints other than those indicated on the drawings will be permitted without the written approval of the engineer".

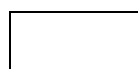
B6409 CURING AND PROTECTING

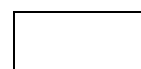
Add the following:

The surface area of bridge and culvert floor slabs and decks shall be cured as follows:


Contractor


Witness 1


Employer


Witness 1

- (i) The area of freshly cast and finished concrete surface shall be immediately covered as specified in clause 6409(e).
- (ii) After the concrete has set sufficiently the entire area shall be treated with an approved curing compound as specified in clause 6409(f)."

B6414 QUALITY OF MATERIALS AND WORKMANSHIP

(a) Criteria for compliance with the requirements

Add the following:

"Quality control shall be carried out by the engineer as specified in Section 8200 : Quality Control (Scheme 1)."

Add the following new paragraph:

(d) Concrete cores - strength requirements

"Cores will only be drilled if authorised by the engineer. This will only be considered if the contractor's own cubes, when crushed by the engineer, attained the required 28-day cube strength."

B6416 MEASUREMENT AND PAYMENT

ITEM	UNIT
B64.01 Cast in situ concrete:	cubic metre (m ³)

Add the following after the first paragraph:

"Where foundation slabs are set directly against the face of excavations, the volume of concrete measured for payment shall include the total volumes of concrete placed, allowing for up to a maximum over the neat footing dimensions of 200mm where in the opinion of the engineer accurate excavation to neat lines and levels indicated on the drawings is not possible. (No formwork to the footing shall be measured when the concrete is cast against the face of the excavations)."

The Generic Labour-intensive specification below is the same as SANS 1921-5, Construction and management requirement for works contracts- Part 5: Earthworks activities which are to be performed by hand and should be included in the scope of works without amendment or modification as set out below.

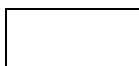
T.SCOPE

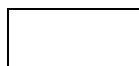
This specification establishes general requirements for activities which are to be executed by hand involving the following:

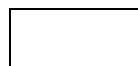
- a) trenches having a depth of less than 1.5 metres
- b) stormwater drainage
- c) low-volume roads and sidewalks

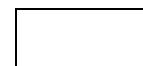
U.PRECEDENCE

Where this specification is in conflict with any other standard or specification referred to in the Scope of Works to


Contractor


Witness 1


Employer


Witness 1

this Contract, the requirements of this specification shall prevail.

V.HAND EXCAVATEABLE MATERIAL

Hand excavatable material is material:

a) granular materials:

i) whose consistency when profiled may in terms of table 1 be classified as very loose, loose, medium dense, or dense; or

ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 15 blows of a dynamic cone penetrometer is required to penetrate 100mm;

b) cohesive materials:

i) whose consistency when profiled may in terms of table 1 be classified as very soft, soft, firm, stiff and stiff / very stiff; or

ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 8 blows of a dynamic cone penetrometer is required to penetrate 100mm;

Note:

1) A boulder, a cobble and gravel is material with a particle size greater than 200mm, between 60 and 200mm.

2) A dynamic cone penetrometer is an instrument used to measure the insitu shear resistance of a soil comprising a drop weight of approximately 10 kg which falls through a height of 400mm and drives a cone having a maximum diameter of 20mm (cone angle of 60° with respect to the horizontal) into the material being used.

Table 1: Consistency of materials when profiled


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GRANULAR MATERIALS		COHESIVE MATERIALS	
CONSISTENCY	DESCRIPTION	CONSISTENCY	DESCRIPTION
Very loose	Crumbles very easily when scraped with a geological pick.	Very soft	Geological pick head can easily be pushed in as far as the shaft of the handle.
Loose	Small resistance to penetration by sharp end of a geological pick.	Soft	Easily dented by thumb; sharp end of a geological pick can be pushed in 30-40 mm; can be moulded by fingers with some pressure.
Medium dense	Considerable resistance to penetration by sharp end of a geological pick.	Firm	Indented by thumb with effort; sharp end of geological pick can be pushed in upto 10 mm; very difficult to mould with fingers; can just be penetrated with an ordinary hand spade.
Dense	Very high resistance to penetration by the sharp end of geological pick; requires many blows for excavation.	Stiff	Can be indented by thumb-nail; slight indentation produced by pushing geological pick point into soil; cannot be moulded by fingers.
Very dense	High resistance to repeated blows of a geological pick.	Very stiff	Indented by thumb-nail with difficulty; slight indentation produced by blow of a geological pick point.

Trench excavation

All hand excavateable material in trenches having a depth of less than 1,5 metres shall be excavated by hand.

Compaction of backfilling to trenches (areas not subject to traffic)

Backfilling to trenches shall be placed in layers of thickness (before compaction) not exceeding 100mm. Each layer shall be compacted using hand stampers

- to 90% Proctor density;
- such that in excess of 5 blows of a dynamic cone penetrometer (DCP) is required to penetrate 100 mm of the backfill, provided that backfill does not comprise more than 10% gravel of size less than 10mm and contains no isolated boulders, or
- such that the density of the compacted trench backfill is not less than that of the surrounding undisturbed soil when tested comparatively with a DCP.

Excavation

All hand excavateable material including topsoil classified as hand excavateable shall be excavated by hand. Harder material may be loosened by mechanical means prior to excavation by hand.

The excavation of any material which presents the possibility of danger or injury to workers shall not be excavated by hand.

(d) Drainage of excavations

The contractor shall apply suitable, effective drainage and dewatering methods for preventing the ingress of water into the excavation and to keep them dry.

Drainage measures, with the exception of pumping, shall be maintained until the backfilling has been completed. Between various construction stages, pumping may be interrupted in consultation with the engineer.

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Any draining or pumping of water shall be done in a manner as will preclude the concrete or materials or any part thereof from being carried away.

Allowance for measurement and payment for dewatering and keeping dry of culvert excavations is made in the schedule in this section".

*Contractor**Witness 1**Employer**Witness 1*

C3.4.3 PROJECT SPECIFICATIONS: ADDITIONAL SPECIFICATIONS**CONTENTS**

- C3.4.3.1 REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS
- C3.4.3.2 ENVIRONMENTAL MANAGEMENT PLAN
- C3.4.3.3 PROVISION OF STRUCTURED TRAINING
- C3.4.3.4 PROVISION OF THE TEMPORARY WORKFORCE
- C3.4.3.5 THE PROCUREMENT POLICY / SUPPLY CHAIN POLICY OF GREATER LETABA MUNICIPALITY
- C3.4.3.6 REQUIREMENTS OF EXTENDED PUBLIC WORKS PROGRAMME

*Contractor**Witness 1**Employer**Witness 1*

C3.4.3.1 OCCUPATIONAL HEALTH AND SAFETY ACT 1993 : HEALTH AND SAFETY SPECIFICATION**CONTENTS**

C3.4.3.1.1	INTRODUCTION
C3.4.3.1.2	SCOPE
C3.4.3.1.3	GENERAL OCCUPATIONAL HEALTH AND SAFETY PROVISIONS
C3.4.3.1.4	OPERATIONAL CONTROL
ANNEXURE 1:	MEASURING INJURY EXPERIENCE
ANNEXURE 2:	EXECUTIVE SHE RISK MANAGEMENT REPORT
ANNEXURE 3:	LIST OF RISK ASSESSMENTS

Introduction

In terms of the Construction Regulation 4(1) (a) of the Occupational Health and Safety Act, No. 85 of 1993, Greater Letaba Municipality, as the Client, is required to compile a Health & Safety Specification for any intended project and provide such specification to any prospective tenderer.

The Client's further duties are as in C3.5.1.3.1.1. below and in the Construction Regulations, 2003.

This specification has as objective to ensure that Principal Contractors entering into a Contract with the Greater Letaba Municipality achieve an acceptable level of OH&S performance. This document forms an integral part of the Contract and Principal and other Contractors should make it part of any Contracts that they may have with Contractors and/or Suppliers.

Compliance with this document does not absolve the Principal Contractor from complying with minimum legal requirements and the Principal Contractor remains responsible for the health & safety of his employees and those of his Mandataries.

Scope

Development of a health & safety specification that addresses all aspects of occupational health and safety as affected by the abovementioned contract work.

The specification will provide the requirements that Principal Contractors and other Contractors will have to comply with in order to reduce the risks associated with the abovementioned contract work that may lead to incidents causing injury and/or ill health, to a level as low as reasonably practicable.

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General Occupational Health & Safety Provisions

(a) Hazard Identification & Risk Assessment (Construction Regulation 7)

(i) Risk Assessments

Annexure 3 contains a list of Risk Assessment headings that have been identified by Greater Letaba Municipality as possibly applicable to the abovementioned contract work. It is, by no means, exhaustive and is offered as an assistance to Contractors intending to tender.

Based on the Risk Assessments, the Principal Contractor must develop a set of site-specific OH&S rules that will be applied to regulate the OH&S aspects of the construction.

The Risk Assessments, together with the site-specific OH&S rules must be submitted to the Greater Letaba Municipality before mobilisation on site commences.

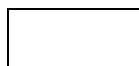
Despite the Risk Assessments listed in Annexure 3, the Principal Contractor is required to conduct a baseline Risk Assessment and the aforesaid listed Risk Assessments must be incorporated into the baseline Risk Assessment. The baseline Risk Assessment must further include the Standard Working procedures (SWP) and the applicable Method Statements based on the Risk Assessments

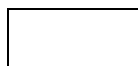
All out-of-scope work must be associated with a Risk Assessment.

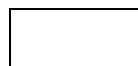
(ii) Review of Risk Assessments

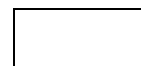
The Principal Contractor is to review the Hazard Identification, Risk Assessments and SWP's at each Production Planning and Progress Report meeting as the Contract work develops and progresses and each time changes are made to the designs, plans and construction methods and processes.

The Principal Contractor must provide the Client, other Contractors and all other concerned-parties with copies of any changes, alterations or amendments as contemplated in above.


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(b) Legal Requirements

All Contractors entering into a Contract with the Greater Letaba Municipality shall, as a minimum, comply with the

- Occupational Health & Safety Act and Regulations (Act 85 of 1993). A current, up-to-date copy of the OHS Act must be available on site at all times
- Compensation for Occupational Injuries & Diseases Act (Act 130 of 1993). The principal Contractor will be required to submit a letter of Registration and "good-standing" from the Compensation Insurer before being awarded the Contract. A current, up-to-date copy of the COID Act must be available on site at all times.
- Where work is being carried out on mines' premises the Contractor will have to comply with the Mine Health & Safety Act and Regulations (Act. 29 of 1996) and any other OH&S requirements that the mine may specify. A current, up-to-date copy of the OHS Act must be available on site at all times.

(c) Structure and Responsibilities

(i) Overall Supervision and Responsibility for OH&S

- * It is a requirement that the Principal Contractor, when he appoints Contractors (Sub-contractors) in terms of Construction Regulations 5(3), (5), (9), (10) and (12) he includes an OHS Act Section 37(2) agreement: "Agreement with Mandatary" in his agreement with such Contractors.
- * Any OH&S Act (85/1993), Section 16(2) appointee/s as detailed in his/her/their respective appointment forms

(ii) Further (Specific) Supervision Responsibilities for OH&S

The Contractor shall appoint designated competent employees and/or other competent persons as required by the Act and Regulations. Below is a list of identified appointments and may be used to select the appropriate appointments for the current contract:

	Ref. Section/Regulation in OHSAct
Batch Plant Supervisor	(Construction Regulation 6(1))
Construction Vehicles/Mobile Plant/Machinery Supervisor	(Construction Regulation 21)
Demolition Supervisor	(Construction Regulation 12)
Drivers/Operators of Construction Vehicles/Plant	(Construction Regulation 21)
Electrical Installation and Appliances Inspector	(Construction Regulation 22)
Emergency/Security/Fire Coordinator	(Construction Regulation 27)
Excavation Supervisor	(Construction Regulation 11)
Explosive Powered Tool Supervisor	(Construction Regulation 19)
Fall Protection Supervisor	(Construction Regulation 8)
First Aider	(General Safety Regulation 3)
Fire Equipment Inspector	(Construction Regulation 27)
Formwork & Support work Supervisor	(Construction Regulation 10)

 Contractor

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Hazardous Chemical Substances Supervisor	(HCS Regulations)
Incident Investigator	(General Admin Regulation 29)
Ladder Inspector	(General Safety Regulation 13A)
Lifting Equipment Inspector	(Construction Regulation 20)
Materials Hoist Inspector	(Construction Regulation 17)
OH&S Committee	(OHS Act Section 19)
OH&S Officer	(Construction Regulation 6(6))
OH&S Representatives	(OHS Act Section 17)
Person Responsible for Machinery	(General Machinery Regulation 2)
Scaffolding Supervisor	(Construction Regulation 14)
Stacking & Storage Supervisor	(Construction Regulation 26)
Structures Supervisor	(Construction Regulation 9)
Suspended Platform Supervisor	(Construction Regulation 15)
Tunneling Supervisor	(Construction Regulation 13)
Vessels under Pressure Supervisor	(Vessels under Pressure Regulations)
Working on/next to Water Supervisor	(Construction Regulation 24)
Welding Supervisor	(General Safety Regulation 9)

The appointments must be in writing and the responsibilities clearly stated together with the period for which the appointment is made. This information must be communicated and agreed with the appointees.

Copies of appointments must be submitted to the Greater Letaba Municipality together with concise CV's of the appointees. All appointments must be officially approved by Greater Letaba Municipality. Any changes in appointees or appointments must be communicated to Greater Letaba Municipality forthwith.

The Principal Contractor must, furthermore, provide Greater Letaba Municipality with an organogram of all Contractors that he/she has appointed or intends to appoint and keep this list updated on a weekly basis.

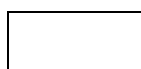
In addition Greater Letaba Municipality may require that a Traffic Safety Officer be appointed for any project.

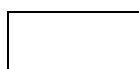
(iii) Designation of OH&S Representatives (Section 18 of the OHS Act)

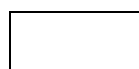
OH&S Representatives have to be designated in writing and the designation must include the area of responsibility of the person and term of the designation.

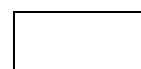
(iv) Duties and Functions of the OH&S Representatives (Section 19 of the OHS Act)

The Principal Contractor must ensure that the designated OH&S Representatives conduct a minimum monthly inspection of their respective areas of responsibility using a checklist and report thereon to the Principal Contractor


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OH&S representatives must be included in accident/incident investigations

OH&S representatives must attend all OH&S committee meetings.

(v) Appointment of OH&S Committee (Section 20 of the OHS Act)

The Principal Contractor must establish an OH&S Committee consisting of all the designated OH&S Representatives together with a number of management representatives that are not allowed to exceed the number of OH&S representatives on the committee and a representative of the Client who shall act as the chairman without a vote. The members of the OH&S committee must be appointed in writing.

The OH&S Committee must meet minimum monthly and consider, at least, the following Agenda:

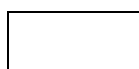
1. Opening & Welcome
2. Present/Apologies/Absent
3. Minutes of previous Meeting
4. Matters Arising from the previous Minutes
5. OH&S Reps Reports
6. Incident Reports & Investigations
7. Incident/Injury Statistics
8. Other Matters
9. Endorsement of Registers and other statutory documents by a representative of the Principal Contractor
10. Close/Next Meeting

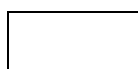
(d) Administrative Controls and the Occupational Health & Safety File

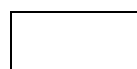
(i) The OH&S File (Construction Regulation 5 (7))

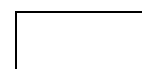
As required by Construction Regulation 5(7), the Principal Contractor and other Contractors will each keep an OH&S File on site containing the following documents as a minimum:

- * Notification of Construction Work (Construction Regulation 3.)
- * Copy of OH&S Act (updated) (General Administrative Regulation 4.)
- * Proof of Registration and good standing with a COID Insurer (Construction Regulation 4 (g))
- * OH&S Programme agreed with the Client including the underpinning Risk Assessment/s & Method Statements (Construction regulation 5 (1))
- * Copies of OH&S Committee and other relevant Minutes
- * Designs/drawings (Construction Regulation 5 (8))
- * A list of Contractors (Sub-Contractors) including copies of the agreements between the parties and the type of work being done by each Contractor (Construction Regulation 9)
- * Appointment/Designation forms as per (a)(i) & (ii) above.
- * Registers as follows:
 - * Accident/Incident Register (Annexure 1 of the General Administrative Regulations)
 - * OH&S Representatives Inspection Register


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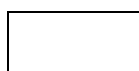

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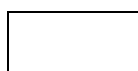
- * Asbestos Demolition & Stripping Register
- * Batch Plant Inspections
- * Construction Vehicles & Mobile Plant Inspections by Controller
- * Daily Inspection of Vehicles. Plant and other Equipment by the Operator/ Driver/User
- * Demolition Inspection Register
- * Designer's Inspection of Structures Record
- * Electrical Installations, -Equipment & -Appliances (including Portable Electrical Tools)
- * Excavations Inspection
- * Explosive Powered Tool Inspection, Maintenance, Issue & Returns Register (incl. cartridges & nails)
- * Fall Protection Inspection Register
- * First Aid Box Contents
- * Fire Equipment Inspection & Maintenance
- * Formwork & Support work Inspections
- * Hazardous Chemical Substances Record
- * Ladder Inspections
- * Lifting Equipment Register
- * Materials Hoist Inspection Register
- * Machinery Safety Inspection Register (incl. machine guards, lock-outs etc.)
- * Scaffolding Inspections
- * Stacking & Storage Inspection
- * Inspection of Structures
- * Inspection of Suspended Platforms
- * Inspection of Tunnelling Operations
- * Inspection of Vessels under Pressure
- * Welding Equipment Inspections
- * Inspection of Work conducted on or Near Water
- * All other applicable records

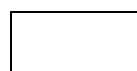
Greater Letaba Municipality will conduct an audit on the OH&S file of the Principal Contractor from time-to-time.

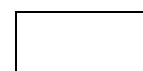
(e) OH&S Goals & Objectives & Arrangements for Monitoring & Review of OH&S Performance

The Principal Contractor is required to maintain a CIFR of at least 8 (See Annexure 1. to this document: "Measuring Injury Experience) and report on this to Greater Letaba Municipality on a monthly basis.


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(f) Notification of Construction Work (Construction Regulation 3.)

The Principal Contractor must, where the Contract meets the requirements laid down in Construction Regulation 3, within 5 working days, notify the Department of Labour of the intention to carry out construction work and use the form (Annexure A in the Construction Regulations) for the purpose. A copy must be held on the OH&S File and a copy must be forwarded to Greater Letaba Municipality for record keeping purposes.

(g) Training, Awareness and Competence

The contents and syllabi of all training required by the Act and Regulations are to be included in the Principal Contractor's OH&S Plan.

(i) General Induction Training

All members of Contractor's Site management as well as all the persons appointed as responsible for OH&S in terms of the Construction and other Regulations will be required to attend a general induction session by the Client

All employees of the Principal and other Contractors to be in possession of proof of General Induction training.

(ii) Site Specific Induction Training

The Principal Contractor will be required to develop Contract work project specific induction training based on the Risk Assessments for the Contract work and train all employees and other Contractors and their employees in this.

All employees of the Principal and other Contractors to be in possession of proof of Site Specific OH&S Induction training at all times.

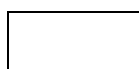
(iii) Other Training

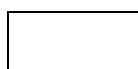
All operators, drivers and users of construction vehicles, mobile plant and other equipment to be in possession of valid proof of training.

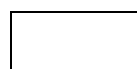
All employees in jobs requiring training in terms of the Act and Regulations to be in possession of valid proof of training as follows:

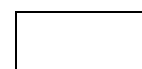
OH&S Training Requirements: (as required by the Construction Regulations and as indicated by the OH&S Specification & the Risk Assessment/s):

- * General Induction (Section 8 of the Act)
- * Site/Job Specific Induction (also visitors) (Sections 8 & 9 of the Act)
- * Site/Project Manager
- * Construction Supervisor
- * OH&S Representatives (Section 18 (3) of the Act)
- * Training of the Appointees indicated above


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- * Operators & Drivers of Construction Vehicles & Mobile Plant (Construction Regulation 21)
- * Basic Fire Prevention & Protection (Environmental Regulations 9 and Construction regulation 27)
- * Basic First Aid (General Safety Regulations 3)
- * Storekeeping Methods & Safe Stacking (Construction Regulation 26)
- * Emergency, Security and Fire Co-coordinator

(iv) Awareness & Promotion

The Principal Contractor is required to have a promotion and awareness scheme in place to create an OH&S culture in employees. The following are some of the methods that may be used:

- Toolbox Talks
- OH&S Posters
- Videos
- Competitions
- Suggestion schemes
- Participative activities such as OH&S Safety circles.

(v) Competence

The Principal Contractor shall ensure that his and other Contractor's personnel appointed are competent and that all training required to do the work safely and without risk to health, has been completed before work commences

The Principal Contractor shall ensure that follow-up and refresher training is conducted as the contract work progresses and the work situation changes.

Records of all training must be kept on the OH&S File for auditing purposes.

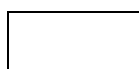
(h) Consultation, Communication and Liaison

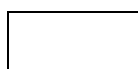
OH&S Liaison between the Client, the principal Contractor, the other Contractors, the Designer and other concerned parties will be through the OH&S committee as contemplated in above.

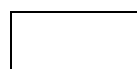
In addition to the above, communication may be directly to the Client or his appointed Agent, verbally or in writing, as and when the need arises.

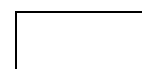
Consultation with the workforce on OH&S matters will be through their Supervisors, OH&S Representatives, the OH&S committee and their elected Trade Union Representatives, if any.

The Principal Contractor will be responsible for the dissemination of all relevant OH&S information to the other Contractors e.g. design changes agreed with the Client and the Designer, instructions by the Client


Contractor


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and/or his/her agent, exchange of information between Contractors, the reporting of hazardous/dangerous conditions/ situations etc.

The Principal Contractor will be required to do Site Safety Walks with Greater Letaba Municipality at least on a basis to be determined between the two parties.

The Principal and other Contractors will be required to conduct Toolbox Talks with their employees on a weekly basis and records of these must be kept on the OH&S File. Employees must acknowledge the receipt of Toolbox Talks which record must, likewise be kept on the OH&S File.

The Principal Contractors most senior manager on site will be required to attend all Greater Letaba Municipality OH&S meetings and a list of dates, times and venues will be provided to the Principal Contractor by Greater Letaba Municipality.

(i) Checking, Reporting and Corrective Actions

(i) Monthly Audit by Client (Construction Regulation 1(d))

Greater Letaba Municipality will be conducting a Monthly Audit to comply with Construction Regulation 4(1)(d) to ensure that the principal Contractor has implemented and is maintaining the agreed and approved OH&S Plan.

(ii) Other Audits and Inspections by Greater Letaba Municipality:

Greater Letaba Municipality reserves the right to conduct other ad hoc audits and inspections as deemed necessary. This will include Site Safety Walks.

(iii) Conducting an Audit

A representative of the Principal Contractor must accompany Greater Letaba Municipality on all Audits and Inspections and may conduct his/her own audit/inspection at the same time. Each party will, however, take responsibility for the results of his/her own audit/inspection results.

(iv) Contractor's Audits and Inspections

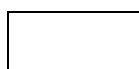
The Principal Contractor is to conduct his own monthly internal audits to verify compliance with his own OH&S Management system as well as of with this specification.

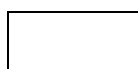
(v) Inspections by OH&S Representative's and other Appointees

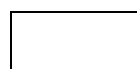
OH&S Representatives must conduct weekly inspections of their areas of responsibility and report thereon to their foreman or supervisor whilst other appointees must conduct inspections and report thereon as specified in their appointments e.g. vehicle, plant and machinery drivers, operators and users must conduct daily inspections before start-up.

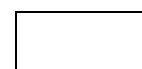
(vi) Recording and Review of Inspection Results

All the results of the abovementioned inspections to be in writing, reviewed at OH&S committee meetings, endorsed by the chairman of the meeting and placed on the OH&S File.


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(vii) Reporting of Inspection Results

The Principal Contractor is required to provide the Client with a monthly report in the format as per the attached Annexure 2: "SHE Risk Management Report"

(j) Incident Reporting and Investigation

Reporting of Accidents and Incidents (Section 24 and General Administrative Regulation 8 of the OHS Act)

The Principal Contractor must report all incidents where an employee is injured on duty to the extent that he/she:

- * dies
- * becomes unconscious
- * loses a limb or part of a limb
- * is injured or becomes ill to such a degree that he/she is likely either to die or to suffer a permanent physical defect or likely to be unable for a period of at least 14 days either to work or continue with the activity for which he/she was usually employed

OR where:

- * a major incident occurred
- * the health or safety of any person was endangered
- * where a dangerous substance was spilled
- * the uncontrolled release of any substance under pressure took place
- * machinery or any part of machinery fractured or failed resulting in flying, falling or uncontrolled moving objects
- * machinery ran out of control

to Greater Letaba Municipality within two days and to the Provincial Director of the Department of Labour within seven days (Section 24 of the Act & General Administrative Regulation 8.) EXCEPT that, where a person has died, has become unconscious for any reason or has lost a limb or part of a limb or may die or suffer a permanent physical defect, the incident must be reported to both Greater Letaba Municipality and the Provincial Director of the Department of Labour forthwith by telephone, telefax or E-mail.

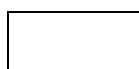
The Principal Contractor is required to provide Greater Letaba Municipality with copies of all statutory reports required in terms of the Act within 7 days of the incident occurring.

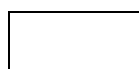
The Principal Contractor is required to provide Greater Letaba Municipality with copies of all internal and external accident/incident investigation reports including the reports contemplated below within 7 days of the incident occurring.

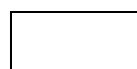
Accident and Incident Investigation (General Administrative Regulation 9)

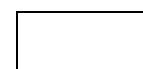
The Principal Contractor is responsible for the investigation of all accidents/incidents where employees and non-employees were injured to the extent that he/she/they had to be referred for medical treatment by a doctor, hospital or clinic

The results of the investigation to be entered into the Accident/Incident Register listed in above.


Contractor


Witness 1


Employer


Witness 1

The Principal Contractor is responsible for the investigation of all minor and non-injury incidents as described in Section 24 (1) (b) & (c) of the Act and keeping a record of the results of such investigations including the steps taken to prevent similar accidents in future.

The Principal Contractor is responsible for the investigation of all road traffic accidents and keeping a record of the results of such investigations including the steps taken to prevent similar accidents in future.

The Greater Letaba Municipality reserves the right to hold its own investigation into an incident or call for an independent external investigation.

Operational Control

(a) Emergency Preparedness, Contingency Planning and Response

The Principal Contractor must appoint a competent person to act as Emergency Controller/Coordinator.

The Principal Contractor must conduct an emergency identification exercise and establish what emergencies could possibly develop. He/she must then develop detailed contingency plans and emergency procedures, taking into account any emergency plan that Greater Letaba Municipality may have in place.

The Principal Contractor and the other Contractors must hold regular practice drills of contingency plans and emergency procedures to test them and familiarise employees with them.

(b) First Aid (General Safety Regulation 3)

The Principal Contractor must provide First Aid equipment (including a stretcher) and have qualified First Aider/s as required by General Safety Regulation 3 of the OHS Act.

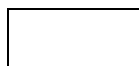
The Contingency Plan of the Principal Contractor must include the arrangements for speedily and timeously transporting injured/ill person/s to a medical facility or of getting emergency medical aid to person/s that may require it.

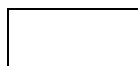
The Principal Contractor must have firm arrangements with his other Contractors in place regarding the responsibility of the other Contractors injured/ill employees

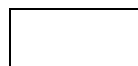
(c) Security

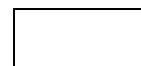
The Principal Contractor must establish site access rules and implement and maintain these throughout the construction period. Access control must include the rule that non-employees will not be allowed on site unaccompanied.

The Principal Contractor must develop a set of Security rules and procedures and maintain these throughout the construction period


Contractor


Witness 1


Employer


Witness 1

(d) **Fall Protection (Working in Elevated Positions (Construction regulation 8.)**

A pre-emptive Risk Assessment will be required for any work to be carried out above two metres from the ground or any floor level and will be classified as "Work in Elevated Positions".

As far as is practicable, any person working in an elevated position will work from a platform, ladder or other device that is at least as safe as if he/she is working at ground level and whilst working in this position be wearing a single belt with lanyard that will be worn to prevent the person falling from the platform, ladder or other device utilised. This safety belt will be, as far as is possible, secured to a point away from the edge over which the person might fall and the lanyard must be of such a length that the person will not be able to move over the edge.

Alternatively any platform, slab, deck or surface forming an edge over which a person may fall may be fitted with guard rails at two different heights as prescribed in SABS 085: Code of Practice for the Design, Erection, Use and Inspection of Access Scaffolding.

Where the requirement in is not practicable, the person will be provided with a full body harness that will be worn and attached above the wearer's head at all times and the lanyard must be fitted with a shock absorbing device OR the person must be attached to an approved, by Greater Letaba Municipality, fall arrest system.

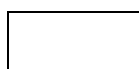
Where the requirements are not practicable, a suitable catch net must be erected.

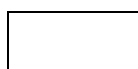
Workers working in elevated positions must be trained to do this safely and without risk to health

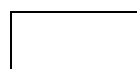
Where work on roofs is carried out, the Risk Assessment must take into account the possibility of persons falling through fragile material. Skylights and openings in the roof.

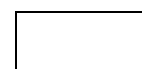
Measurement and Payment

Payment for the contractor's obligations in respect of the Occupational Health and Safety act and Construction Regulations shall be made through three payment items described below. The three payment items together shall include full compensation for all personnel (including a dedicated full time Construction Safety Officer), cost and incidentals in respect of compliance with the enforcement of the Health and Safety Specifications, which shall include for the compilation, presentation, implementation and maintenance of the Health and Safety Plan as contemplated. In tendering rates for the three items the contractor shall ensure that the sum of the amounts for the three items shall not be less than one percent (1%) of the Tender Amount.


Contractor


Witness 1


Employer


Witness 1

Item	Unit
C1.1 Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	Lump Sum

The full amount will be paid in one instalment only once:-

- (a) The contractor has notified the Provincial Director of the Department of Labour in writing of the project.
- (b) The contractor has made the required initial appointments of employees and sub-contractors.
- (c) The client has approved the contractor's Health and Safety Plan.
- (d) The contractor has set up his Health and Safety File.

Payment will be made under Item **B13.01(d)**.

Item	Unit
C1.2 Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	Month

The tendered monthly amount shall represent full compensation for that part of the contractor's general obligations in terms of the Occupational Health and Safety Act and the Construction Regulations which are mainly a function of time. This includes inter alia payment of all costs for the appointment of all staff contemplated in the construction regulations and the transport of employees on site. Payment will be made under Item **B13.01(d)**.

Item	Unit
C1.3 Submission of the Health and Safety File	Lump Sum

The tendered lump sum shall represent full compensation for the contractor meeting all his obligations in respect of the Occupational Health and Safety Act and the Construction Regulations and for the preparation and submission of his Health and Safety File complete as envisaged on this specification to the Client's satisfaction.

This amount will be paid only once the contractor has met all his obligations in respect of the Occupational Health and Safety Act and the Construction Regulations and has submitted his Health and Safety File complete as envisaged on this specification to the Client's satisfaction. Payment will be made under Item **B13.01(d)**.

Contractor

Witness 1

Employer

Witness 1

Project/Site Specific Requirements

See Annexure 3

Annexure 1: Measuring Injury Experience

Annexure 2: SHE Risk Management Report

Annexure 3. List of Risk Assessments



Contractor



Witness 1



Employer



Witness 1

ANNEXURE 1: MEASURING INJURY EXPERIENCE

Injury experience has traditionally been measured by the use of a disabling injury frequency rate, the so-called "DIFR". The DIFR is calculated by multiplying the number of disabling injuries by 1 million and dividing by the number of man-hours worked.

Lately the DIFR has been replaced internationally with a DIIR: disabling injury incidence rate. The only difference between the two rates are that the 10 million in the calculation is replaced with 200 000. (200 000 purported to be the number of hours and average person works in a lifetime.)

The use of the two rates above has proved to be somewhat problematical as they are open to manipulation and disabling injuries are often "hidden" by returning the injured employee to the workplace so as not to lose a shift and therefore having to register a disabling injury.

The Construction Industry recently decided to promote the use of a new frequency rate based on the number of compensation injury claims as these are more difficult to hide or manipulate because the reporting of compensable injuries is a legal requirement.

The industry is hoping that adoption of this new measurement of injury experience will enable the industry to monitor itself as far as work related injuries are concerned.

Below follows an explanation of this new rating system.

COMPENSATION INCIDENCE FREQUENCY RATE (CIFR)

FORMULA

No. of Compensation Claims X 200 000 /

*220 man hours X No. of Employees

DEFINITIONS

No. of Compensation

Claims: The number of claims lodged with the COID insurer for the period under review

200 000: The fixed factor to align the rate with other rates used internationally Manhours Worked

Include: * Hourly Paid Employees

* Sub-contractors (No. of Employees X *220 each)

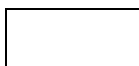
* Staff (No. of Employees X *220 hours each)

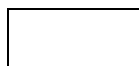
220 manhours: The *average number of hours worked by one employee in one month in the Construction industry.

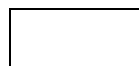
* Overtime, absence on leave or sick leave, unrecorded after hours time worked by senior and middle management factored into this average.

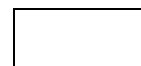
No. of Employees: The actual or average number of employees employed for the period under review.

2002/03CIFRSystem


Contractor


Witness 1


Employer


Witness 1

ANNEXURE 2: EXECUTIVE SHE RISK MANAGEMENT REPORT

The SAFCEC OH&S committee recently developed the following report in an attempt to standardise on reporting and assist contractors in obtaining a clear picture of their SHE Risk Management performance. It is hoped that clients will also accept this standardised report. Your comments/suggestions for improvement is invited.

EXAMPLE ONLY: ALL INFORMATION IS FICTITIOUS

XYZ construction

*SHE RISK MANAGEMENT REPORT

PERIOD JANUARY TO MARCH 2002

*(SHE = Safety, Health & Environment)

1. Introduction

We hope that this new format of quarterly SHE Risk Management reporting will provide a clear picture of the company's performance as far as occupational health & safety is concerned.

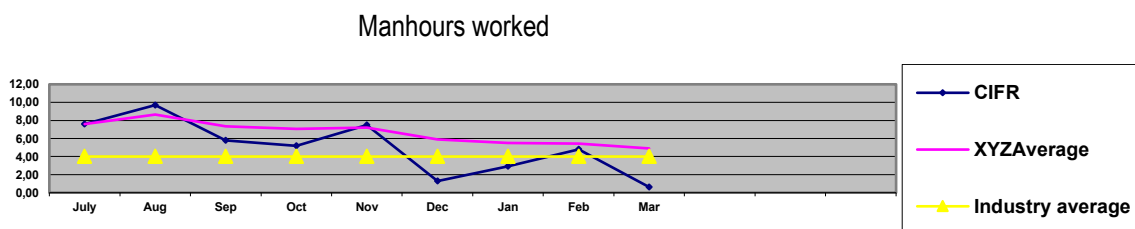
The first quarter of 2002 generally reflected an improvement in injury experience and shows a decline in the number of injuries. Although Building was the only division where there was an increase in compensation claims, figures are still well down from the average 2001 figures. A sub-contractor experienced one fatality.

All divisions are eagerly awaiting the final implementation in May of the new electronic SHE Management system that will make the tools to implement the SHE programme available to all management and supervisory staff.

2. Incident Statistics

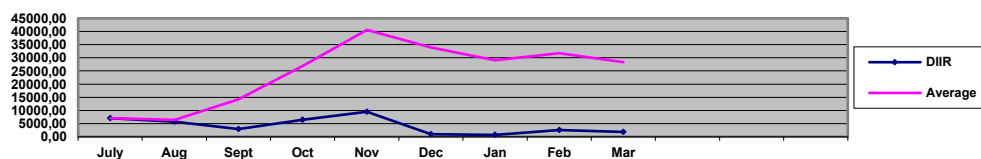
Compensation Incident Frequency Rate (CIFR)

$\text{CIFR} = \frac{\text{Total No. of Claims against the Workmen's Compensation Fund} \times 200\,000}{\text{Manhours worked}}$



2.2. Disabling Injury Incidence Rate (DIIR)

$\text{DIIR} = \frac{\text{No. Disabling Injuries} \times 200\,000}{\text{Manhours worked}}$



Contractor

Witness 1

Employer

Witness 1

2.3. Other Major Incidents

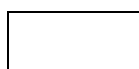
Three other major incidents were experienced in the period under review:

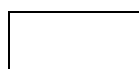
- 2.3.1. A major trench collapsed at Job. 00123: XYZ Head Office, Bochum: No personnel injured, extensive damage to foundations: 3 days delay.
- 2.3.2. A concrete dumper ran away when its brakes failed. It smashed into the glass façade of the building on Job 00332: McDonalds, Polokwane. The driver jumped off and was not injured. Cost of damage to façade: R45 000.
- 2.3.3. A storage hut on Job 00567: BP Petrol Station, Swartruggens was demolished by fire when the night watchman made a fire inside the storage hut which contained concrete vibrators and levelling machines. Cost of replacing the hut and machines: R30 000

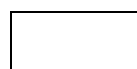
3. RISK AREAS

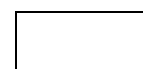
The following items of concern need priority consideration by management:

- 3.1. New employees must undergo pre-employment medical examinations to:
 - protect XYZ from claims at a later stage
 - ensure that only healthy persons are employed
 - prevent injuries and illness in the workplace
 - enhance XYZ image
- 3.2. Vehicle drivers and plant operators must be instructed to inspect their vehicles daily before start-up using the prescribed checklists to ensure that these are safe to operate and in good condition.


Contractor


Witness 1


Employer


Witness 1

4. AUDITS

Three SHE audits were conducted in February and March:

- 4.1. Job 00432: Gillooly's Mall Compliance: 56%(*)
 Job 00786: Cullinan Head Office Compliance: 83%(****)
 Job 00589: Cleveland Station Compliance: 76%(***)

5. TRAINING

One hundred and forty two employees, representing 7% of employees, attended nine training courses. *Our objective is to train 5,5% of employees quarterly.

Month	No. of Employees Trained	Course	Source
January	26	Induction	Internal
	15	OH&S Reps	Consultant
	3	Crane Drivers	External
February	23	Induction	Internal
	17	OH&S Reps	Consultant
March	43	Induction	Internal
	9	OH&S Reps	Consultant
	3	Bomag Rollers	Supplier
	3	First Aiders	St. John's

6. LEGAL ISSUES

- 6.1. An inspector of the Department of Labour issued an improvement notice on Job 00987: Gillooly's Mall. The notice requires that all scaffolding comply with the SABS standards for the Erection and Maintenance of Access Scaffolding (SABS 085). This is currently being attended to and the inspector will return on 15 April 2002 to ascertain if the notice has been complied with.

Contractor

Witness 1

Employer

Witness 1

8. OCCUPATIONAL AND OTHER HEALTH MATTERS

8.1. HIV Aids

The proposed SAFCEC clinic will soon be operational and we will then be able to send our employees who have tested positive to the clinic for counselling and eventual treatment when necessary

The mobile clinic saw and tested fifty employee volunteers at 3 sites this month. Eighteen of them tested positive.

8.2. Tuberculosis

The mobile clinic will be calling at Gillooly's Mall and Cleveland Station on 15 and 16 October respectively to screen employees for TB.

8.3. Noise

All suspected noise pollution areas have been tested and the results are awaited. Employees working in areas testing over 85dBa will be issued with suitable hearing protectors.

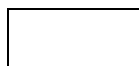
9. ENVIRONMENTAL MEASURES

Inspectors from the Botswana Department of the Environment visited Djwaneng and inspected the site and yard. They gave it a "clean bill of health" and advised that we should increase the dust control measures by spraying roads three times per day instead of the present twice per day.

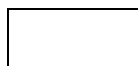
10. ACHIEVEMENTS/AWARDS

10.1. The client at Djwaneng (Job 00786) awarded the XYZ site first position in the housekeeping competition conducted bi-monthly by the client's SHE managers. The project manager and his team are to be congratulated for this sterling effort.

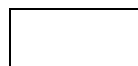
10.2. Job 0987: Refurbishment of Pretoria Main Railway Station has just completed 1million compensation claim free days. This was no easy achievement if we consider the conditions being worked under after the extensive fire that caused major damage.



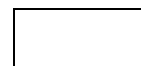
Contractor



Witness 1



Employer



Witness 1

ANNEXURE 3: LIST OF RISK ASSESSMENTS

- * Clearing & Grubbing of the Area/Site
- * Site Establishment including:
 - Office/s
 - Secure/safe storage for materials, plant & equipment
 - Ablutions
 - Sheltered eating area
 - Maintenance workshop
 - Vehicle access to the site
- * Dealing with existing structures
- * Location of existing services
- * Installation and maintenance of temporary construction electrical supply, lighting and equipment
- * Adjacent land uses/surrounding property exposures
- * Boundary and access control/Public Liability Exposures (NB: the Employer is also responsible for the OH&S of non-employees affected by his/her work activities.)
- * 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
- * Protection against dehydration and heat exhaustion
- * Protection from wet & cold conditions
- * Dealing with HIV/Aids and other diseases
- * Use of Portable Electrical Equipment including
 - Angle grinder
 - Electrical drilling machine
 - Skill saw
- * Excavations including
 - Ground/soil conditions
 - Trenching
 - Shoring
 - Drainage of trench
- * Welding including
 - Arc Welding
 - Gas welding
 - Flame cutting
 - Use of LP gas torches and appliances
- * Loading & offloading of trucks
- * Aggregate/sand and other materials delivery
- * Manual and mechanical handling
- * Lifting and lowering operations

 Contractor

 Witness 1

 Employer

 Witness 1

- * Driving & operation of construction vehicles and mobile plant including
 - Trenching machine
 - Excavator
 - Bomag roller
 - Plate compactor
 - Front end loader
 - Mobile cranes and the ancillary lifting tackle
 - Parking of vehicles & mobile plant
 - Towing of vehicles & mobile plant
- * Use and storage of flammable liquids and other hazardous substances
- * Layering and bedding
- * Installation of pipes in trenches
- * Pressure testing of pipelines
- * Backfilling of trenches
- * Protection against flooding
- * Gabion work
- * Use of explosives
- * Protection from overhead power lines
- * As discovered by the Principal Contractor's hazard identification exercise
- * As discovered from any inspections and audits conducted by the Client or by the Principal Contractor or any other Contractor on site
- * As discovered from any accident/incident investigation.

Contractor

Witness 1

Employer

Witness 1

C3.4.3.2 ENVIRONMENTAL MANAGEMENT PLAN

CONTENTS

C3.4.3.2.1	SCOPE
C3.4.3.2.2	DEFINITIONS
C3.4.3.2.3	IDENTIFICATION OF ENVIRONMENTAL ASPECTS AND IMPACTS
C3.4.3.2.4	LEGAL REQUIREMENTS
C3.4.3.2.5	ADMINISTRATION OF ENVIRONMENTAL OBLIGATIONS
C3.4.3.2.6	TRAINING
C3.4.3.2.7	ACTIVITIES/ASPECTS CAUSING IMPACTS
C3.4.3.2.8	ENVIRONMENTAL MANAGEMENT OF CONSTRUCTION ACTIVITIES
C3.4.3.2.9	RECORD KEEPING
C3.4.3.2.10	COMPLIANCE AND PENALTIES
C3.4.3.2.11	MEASUREMENT AND PAYMENT

C3.4.3.2.1. SCOPE

This environmental management programme (EMP) sets out the methods by which proper environmental controls are to be implemented by the contractor. The duration over which the contractor's controls shall be in place cover the construction period of the project as well as the limited time after contract completion defined by the General Conditions of Contract, and the project specifications, as the defects notification period (maintenance period).

The provisions of this EMP are binding on the contractor during the life of the contract. They are to be read in conjunction with all the documents that comprise the suite of documents for this contract. In the event that any conflict occurs between the terms of the EMP and the project specifications or Record of Decision, the terms herein shall be subordinate.

The EMP is a dynamic document subject to similar influences and changes as are brought by variations to the provisions of the project specification. Any substantial changes shall be submitted to the Roads Municipality Limpopo in writing for approval.

The EMP identifies the following:

Construction activities that will impact on the environment.

Specifications with which the contractor shall comply in order to protect the environment from the identified impacts.

Actions that shall be taken in the event of non-compliance.

C3.4.3.2.2. DEFINITIONS

Alien Vegetation: alien vegetation is defined as undesirable plant growth which shall include, but not be limited to, all declared category 1 and 2 listed invader species as set out in the Conservation of Agricultural Resources Act (CARA) regulations. Other vegetation deemed to be alien shall be those plant species that show the potential to occupy in number, any area within the defined construction area and which are declared to be undesirable.

Contractor

Witness 1

Employer

Witness 1

Construction Activity: a construction activity is any action taken by the contractor, his subcontractors, suppliers or personnel during the construction process as defined in the South African National Roads Municipality Limited and National Roads Act, 1998 (Act No. 7, 1998)

Environment: environment means the surroundings within which humans exist and that could be made up of -

- the land, water and atmosphere of the earth;
- micro-organisms, plant and animal life;
- any part or combination of (i) and (ii) and the interrelationships among and between them; and
- the physical, chemical, aesthetic and cultural properties and conditions of the foregoing that influence human health and well-being.

Environmental Aspect: an environmental aspect is any component of a contractor's construction activity that is likely to interact with the environment.

Environmental Impact: an impact or environmental impact is the change to the environment, whether desirable or undesirable, that will result from the effect of a construction activity. An impact may be the direct or indirect consequence of a construction activity.

Record of Decision: a record of decision is a written statement from the Limpopo Department of Economic Development, Environment and Tourism, that records its approval of a planned undertaking to improve, upgrade or rehabilitate a section of road and the mitigating measures required to prevent or reduce the effects of environmental impacts during the life of a contract.

Road Reserve: the road reserve is a corridor of land, defined by co-ordinates and proclamation, within which the road, including access intersections or interchanges, is situated. A road reserve may, or may not, be bounded by a fence.

Road Width: for the purposes of the EMP, the road width is defined as the area within the road reserve i.e. fence line to fence line, but also includes all areas beyond the road reserve that are affected by the continuous presence of the road, e.g. a reach of a water course.

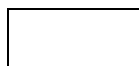
C3.4.3.2.3. IDENTIFICATION OF ENVIRONMENTAL ASPECTS AND IMPACTS

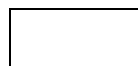
The contractor shall identify likely aspects before commencing with any construction activity. Examples of environment aspects include:

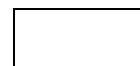
- waste generation
- stormwater discharge
- emission of pollutants into the atmosphere
- chemical use operations
- energy use operations
- water use operations
- use of natural resources
- noise generation

Thereafter the contractor shall programme his work in such a way that each cause and effect of a construction activity is also identified and the activity planned so as to prevent any impact from happening. If prevention is not practicable, or in the event of mishap or misapplication, the contractor


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shall provide plans and measures for the engineer's approval, which will limit and contain the magnitude, duration and intensity of the impact. The contractor shall demonstrate that he/she is capable of carrying out any repair and reinstatement of the damaged environment. These requirements shall be concurrent with the time constraints to produce an approved construction programme according to subclause 8.3 as amended by Particular Condition of the general conditions of contract and clause B1204 of these project specifications.

Listed below are some environmental impacts that could adversely alter an aspect of the environment through usual construction activities:

Pollution of atmosphere, soil or water

Destruction or removal of fauna and flora and effect on biological diversity

Deformation of the landscape

Soil erosion

Destruction of historical/heritage sites

Effect on the built environment

Effect on agricultural land and wetlands

General good construction practice will play an important role in avoiding the occurrence of an Impact. The contractor's attention is drawn, in this regard, to C1008. Environmental Management of Construction Activities

C3.4.3.2.4. LEGAL REQUIREMENTS

a) General

Construction will be according to the best industry practices, as identified in the project documents. This EMP, which forms an integral part of the contract documents, informs the contractor as to his duties in the fulfilment of the project objectives, with particular reference to the prevention and mitigation of environmental impacts caused by construction activities associated with the project. The contractor should note that obligations imposed by the EMP are legally binding in terms of environmental statutory legislation and in terms of the additional conditions to the general conditions of contract that pertain to this project. In the event that any rights and obligations contained in this document contradict those specified in the standard or project specifications then the latter shall prevail.

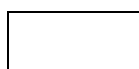
b) Statutory and other applicable legislation

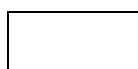
The contractor is deemed to have made himself conversant with all legislation pertaining to the environment, including provincial and local government ordinances, which may be applicable to the contract.

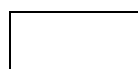
C3.4.3.2.5. ADMINISTRATION OF ENVIRONMENTAL OBLIGATIONS

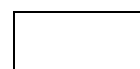
a) Appointment of a Designated Environmental Officer (DEO)

For the purposes of implementing the conditions contained herein, the contractor shall submit to the engineer for approval the appointment of a nominated representative of the contractor as the DEO for the contract. The request shall be given, in writing, at least fourteen days before the start of any work clearly setting out reasons for the nomination, and with sufficient detail to enable the engineer to make a decision. The engineer will, within seven days of receiving the request, approve, reject or call for more information on the nomination. Once a nominated representative of the contractor has been approved he/she shall be the DEO and shall be the responsible person for ensuring that the


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provisions of the EMP are complied with during the life of the contract. The engineer will be responsible for issuing instructions to the contractor where environmental considerations call for action to be taken. The DEO shall submit regular written reports to the engineer, but not less frequently than once a month.

The engineer shall have the authority to instruct the contractor to replace the DEO if, in the engineer's opinion, the appointed officer is not fulfilling his/her duties in terms of the requirements of the EMP or this specification. Such instruction will be in writing and shall clearly set out the reasons why a replacement is required.

There shall be an approved DEO on the site at all times.

b) Administration

Before the contractor begins each construction activity the DEO shall give to the engineer a written statement setting out the following:

The type of construction activity.

Locality where the activity will take place.

Identification of the environmental aspects and impacts that might result from the activity.

Methodology for impact prevention for each activity or aspect.

Methodology for impact containment for each activity or aspect.

Emergency/disaster incident and reaction procedures.

Treatment and continued maintenance of impacted environment.

The contractor may provide such information in advance of any or all construction activities provided that new submissions shall be given to the engineer whenever there is a change or variation to the original.

The engineer may provide comment on the methodology and procedures proposed by the DEO, but he shall not be responsible for the contractor's chosen measures of impact mitigation and emergency/disaster management systems. However, the contractor shall demonstrate at inception and at least once during the contract that the approved measures and procedures function properly.

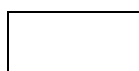
c) Good Housekeeping

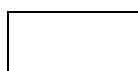
The Contractor shall undertake "good housekeeping" practices during construction as stated in clause 1217 of the COLTO Standard Specifications for Roads and Bridges and subclauses 4.18 and 11.11 of the General Conditions of Contract. This will help avoid disputes on responsibility and allow for the smooth running of the contract as a whole. Good housekeeping extends beyond the wise practice of construction methods that leaves production in a safe state from the ravages of weather to include the care for and preservation of the environment within which the site is situated.

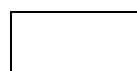
C3.4.3.2.6. TRAINING

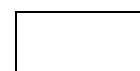
The designated environmental officer (DEO) must be conversant with all legislation pertaining to the environment applicable to this contract and must be appropriately trained in environmental management and must possess the skills necessary to impart environmental management skills to all personnel involved in the contract.

The contractor shall ensure that adequate environmental training takes place. All employees shall have been given an induction presentation on environmental awareness. Where possible, the presentation needs to be conducted in the language of the employees. The environmental training should, as a minimum, include the following:


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- The importance of conformance with all environmental policies
- The environmental impacts, actual or potential, of their work activities;
- The environmental benefits of improved personal performance;
- Their roles and responsibilities in achieving conformance with the environmental policy and procedures and with the requirement of the Municipality's environmental management systems, including emergency preparedness and response requirements;
- The potential consequences of departure from specified operating procedures;
- The mitigation measures required to be implemented when carrying out their work activities.

In the case of permanent staff the contractor shall provide evidence that such induction courses have been presented. In the case of new staff (including contract labour) the contractor shall inform the engineer when and how he/she intends concluding his environmental training obligations.

C3.4.3.2.7. ACTIVITIES/ASPECTS CAUSING IMPACTS

A list of possible causes of environmental impacts that occur during construction activities is given in Table 7/1: Aspects or Activities that Cause Environmental Impacts during Construction Activities, which is to be found at the end of this part. This list is not exhaustive, and shall be used for guideline purposes only.

C3.4.3.2.8. ENVIRONMENTAL MANAGEMENT OF CONSTRUCTION ACTIVITIES

a) Site Establishment

i) Site Plan

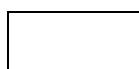
The contractor shall establish his construction camps, offices, workshops, staff accommodation and testing facilities on the site in a manner that does not adversely affect the environment. However, before construction can begin, the contractor shall submit to the engineer for his approval, plans of the exact location, extent and construction details of these facilities and the impact mitigation measures the contractor proposes to put in place.

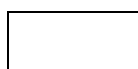
The plans shall detail the locality as well as the layout of the waste treatment facilities for litter, kitchen refuse, sewage and workshop-derived effluents. The site offices should not be sited in close proximity to steep areas, as this will increase soil erosion. Preferred locations would be flat areas along the route. If the route traverses water courses, streams and rivers, it is recommended that the offices, and in particular the ablution facilities, aggregate stockpiles, spoil areas and hazardous material stockpiles are located as far away as possible from any water course as possible. Regardless of the chosen site, the contractor's intended mitigation measures shall be indicated on the plan. The site plan shall be submitted not later than the first site meeting. Detailed, electronic colour photographs shall be taken of the proposed site before any clearing may commence. These records are to be kept by the engineer for consultation during rehabilitation of the site. Read with COLTO Specification 1302(a), 1402 (e).

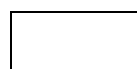
ii) Vegetation

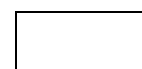
The contractor has a responsibility to inform his staff of the need to be vigilant against any practice that will have a harmful effect on vegetation.

The natural vegetation encountered on the site is to be conserved and left as intact as possible. Vegetation planted at the site shall be indigenous and in accordance with instructions issued by the


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engineer. Only trees and shrubs directly affected by the works, and such others as may be indicated by the engineer in writing, may be felled or cleared. In wooded areas where natural vegetation has been cleared out of necessity, the same species of indigenous trees as were occurring, shall be re-established.

The project specification for the rehabilitation of the grass cover shall be strictly adhered to. Any proclaimed weed or alien species that propagates during the contract period shall be cleared by hand before seeding. (Read in conjunction with COLTO Specification 5801(b), 5802(b), (c), (d) and (e), 5804, 5805, 5806 and 5807). Fires shall only be allowed in facilities or equipment specially constructed for this purpose. A firebreak shall be cleared and maintained around the perimeter of the camp and office sites.

iii) Rehabilitation

The area where the site offices were erected will require rehabilitation at the end of the contract. All construction material, including concrete slabs and braai areas shall be removed from the site on completion of the contract.

iv) Water for human consumption

Water for human consumption shall be available at the site offices and at other convenient locations on site.

All effluent water from the camp / office sites shall be disposed of in a properly designed and constructed system, situated so as not to adversely affect water sources (streams, rivers, pans dams etc). Only domestic type wastewater shall be allowed to enter this drain.

v) Heating and Cooking fuel

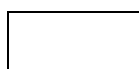
The contractor shall provide adequate facilities for his staff so that they are not encouraged to supplement their comforts on site by accessing what can be taken from the natural surroundings. The contractor shall ensure that energy sources are available at all times for construction and supervision personnel for heating and cooking purposes.

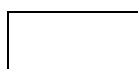
b) Sewage treatment

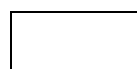
Particular reference in the site establishment plan shall be given to the treatment of sewage generated at the site offices, site laboratory and staff accommodation and at all localities on the site where there will be a concentration of labour. Sanitary arrangements should be to the satisfaction of project management, the local authorities and legal requirements.

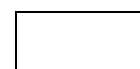
Safe and effective sewage treatment will require one of the following sewage handling methods: septic tanks and soak-aways, dry-composting toilets such as "enviro loos", or the use of chemical toilets which are supplied and maintained by a subcontractor. The type of sewage treatment will depend on the geology of the area selected, the duration of the contract and proximity (availability) of providers of chemical toilets. Should a soak-away system be used, it shall not be closer than 800 metres from any natural water course or water retention system. The waste material generated from these facilities shall be serviced on a regular basis. The positioning of the chemical toilets shall be done in consultation with the engineer. Read with COLTO Specifications 1402(g) and 1404(a).

Toilets and latrines shall be easily accessible and shall be positioned within walking distance from wherever employees are employed on the works. Use of the veld for this purpose shall not, under any circumstances, be allowed.


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Outside toilets shall be provided with locks and doors and shall be secured to prevent them from blowing over. The toilets shall also be placed outside areas susceptible to flooding. The contractor shall arrange for regular emptying of toilets and shall be entirely responsible for enforcing their use and for maintaining such latrines in a clean, orderly and sanitary condition to the satisfaction of the engineer.

c) Waste Management

The contractor's intended methods for waste management and waste minimisation shall be implemented at the outset of the contract. All personnel shall be instructed to dispose of all waste in the proper manner.

i) Solid Waste

Solid waste shall be stored in an appointed area in covered, tip proof metal drums for collection and disposal. A refuse control system shall be established for the collection and removal of refuse to the satisfaction of the engineer. Disposal of solid waste shall be at a Department of Water Affairs and Forestry (DWAFF) licensed landfill site or at a site approved by DWAFF in the event that an existing operating landfill site is not within reasonable distance from the site offices and staff accommodation. No waste shall be burned or buried at or near the site offices, nor anywhere else on the site, including the approved solid waste disposal site. Read with COLTO Specification 1404(a).

ii) Litter

No littering by construction workers shall be allowed. During the construction period, the facilities shall be maintained in a neat and tidy condition and the site shall be kept free of litter.

Measures shall be taken to reduce the potential for litter and negligent behaviour with regard to the disposal of all refuse. At all places of work the contractor shall provide litter collection facilities for later safe disposal at approved sites. (Read with COLTO Specification 1302(b)).

iii) Hazardous waste

Hazardous waste such as bitumen, tar, oils etc. shall be disposed of in a Department of Water Affairs and Forestry approved landfill site. Special care shall be taken to avoid spillage of tar or bitumen products such as binders or pre-coating fluid to avoid water-soluble phenols from entering the ground or contaminating water.

Under no circumstances shall the spoiling of tar or bituminous products on the site, over embankments, in borrow pits or any burying, be allowed. Unused or rejected tar or bituminous products shall be returned to the supplier's production plant. Any spillage of tar or bituminous products shall be attended to immediately and affected areas shall be promptly reinstated to the satisfaction of the engineer.

d) Control at the workshop

The contractor's management and maintenance of his plant and machinery will be strictly monitored according to the criteria given below, regardless whether it is serviced on the site (i.e. at the place of construction activity or at a formalised workshop).

i) Safety

All the necessary handling and safety equipment required for the safe use of petrochemicals and oils shall be provided by the contractor to, and used or worn by, the staff whose duty it is to manage and maintain the contractor's and his subcontractor's and supplier's plant, machinery and equipment.


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ii) Hazardous Material Storage

Petrochemicals, oils and identified hazardous substances shall only be stored under controlled conditions. All hazardous materials e.g. tar or bitumen binders shall be stored in a secured, appointed area that is fenced and has restricted entry. Storage of tar or bituminous products shall only take place using suitable containers to the approval of the engineer.

The contractor shall provide proof to the engineer that relevant authorisation to store such substances has been obtained from the relevant authority. In addition, hazard signs indicating the nature of the stored materials shall be displayed on the storage facility or containment structure. Before containment or storage facilities can be erected the contractor shall furnish the engineer with details of the preventative measures he proposes to install in order to mitigate against pollution of the surrounding environment from leaks or spillage. The preferred method shall be a concrete floor that is bunded. Any deviation from the method will require proof from the relevant authority that the alternative method proposed is acceptable to that authority. The proposals shall also indicate the emergency procedures in the event of misuse or spillage that will negatively affect an individual or the environment.

iii) Fuel and Gas Storage

Fuel shall be stored in a secure area in a steel tank supplied and maintained by the fuel suppliers.. An adequate bund wall, 110% of volume, shall be provided for fuel and diesel areas to accommodate any leakage spillage or overflow of these substances. The area inside the bund wall shall be lined with an impervious lining to prevent infiltration of the fuel into the soil. Any leakage, spillage or overflow of fuel shall be attended to without delay.

Gas welding cylinders and LPG cylinders shall be stored in a secure, well-ventilated area.

iv) Oil and Lubricant Waste

Used oil, lubricants and cleaning materials from the maintenance of vehicles and machinery shall be collected in a holding tank and sent back to the supplier. Water and oil should be separated in an oil trap. Oils collected in this manner, shall be retained in a safe holding tank and removed from site by a specialist oil recycling company for disposal at approved waste disposal sites for toxic/hazardous materials. Oil collected by a mobile servicing unit shall be stored in the service unit's sludge tank and discharged into the safe holding tank for collection by the specialist oil recycling company.

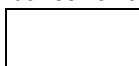
All used filter materials shall be stored in a secure bin for disposal off site. Any contaminated soil shall be removed and replaced. Soils contaminated by oils and lubricants shall be collected and disposed of at a facility designated by the local authority to accept contaminated materials.

e) Clearing the Site

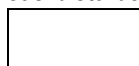
In all areas where the contractor intends to, or is required to clear the natural vegetation and soil, either within the road reserve, or at designated or instructed areas outside the road reserve, a plan of action shall first be submitted to the engineer for his approval.

The plan shall contain a photographic record and chainage/land reference of the areas to be disturbed. This shall be submitted to the engineer for his records before any disturbance/stockpiling may occur. The record shall be comprehensive and clear, allowing for easy identification during subsequent inspections.

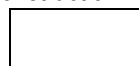
The contractor shall be responsible for the re-establishment of grass within the road reserve boundaries for all areas disturbed during road construction. This includes, for example, service



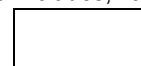
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roads, stockpile areas, stop/go facilities, windrows and wherever material generated for, or from, road construction has to be stored temporarily or otherwise within the road reserve, or at designated or instructed areas outside the road reserve. This responsibility shall extend until expiry of the defects notification period.

f) Soil Management

i) Topsoil

Topsoil shall be removed from all areas where physical disturbance of the surface will occur and shall be stored and adequately protected. The contract will provide for the stripping and stockpiling of topsoil from the site for later re-use. Topsoil is considered to be the natural soil covering, including all the vegetation and organic matter. Depth may vary at each site. The areas to be cleared of topsoil shall include the storage areas. All topsoil stockpiles and windrows shall be maintained throughout the contract period in a weed-free condition. Weeds appearing on the stockpiled or windrowed topsoil shall be removed by hand. Soils contaminated by hazardous substances shall be disposed of at an approved Department of Water Affairs and Forestry waste disposal site. (Read with COLTO Specifications 3104(a), 5802(a), (g), 5804(a), (b) and (c)). The topsoil stockpiles shall be stored, shaped and sited in such a way that they do not interfere with the flow of water to cause damming or erosion, or itself be eroded by the action of water. Stockpiles of topsoil shall not exceed a height of 2m, and if they are to be left for longer than 6 months, shall be analysed, and if necessary, upgraded before replacement. Stockpiles shall be protected against infestation by weeds.

The contractor shall ensure that no topsoil is lost due to erosion – either by wind or water. Areas to be topsoiled and grassed shall be done so systematically to allow for quick cover and reduction in the chance of heavy topsoil losses due to unusual weather patterns. The contractor's programme shall clearly show the proposed rate of progress of the application of topsoil and grassing. The contractor shall be held responsible for the replacement, at his own cost, for any unnecessary loss of topsoil due to his failure to work according to the progress plan approved by the engineer. The contractor's responsibility shall also extend to the clearing of drainage or water systems within and beyond the boundaries of the road reserve that may have been affected by such negligence.

ii) Subsoil

The subsoil is the layer of soil immediately beneath the topsoil. It shall be removed, to a depth instructed by the engineer, and stored separately from the topsoil if not used for road building. This soil shall be replaced in the excavation in the original order it was removed for rehabilitation purposes.

g) Drainage

The quality, quantity and flow direction of any surface water runoff shall be established prior to disturbing any area for construction purposes. Cognisance shall be taken of these aspects and incorporated into the planning of all construction activities. Before a site is developed or expanded, it shall be established how this development or expansion will affect the drainage pattern. Recognised water users / receivers shall not be adversely affected by the expansion or re-development. No water source shall be polluted in any way due to proposed changes.

Streams, rivers, pans, wetlands, dams, and their catchments shall be protected from erosion and from direct or indirect spillage of pollutants such as refuse, garbage, cement, concrete, sewage, chemicals, fuels, oils, aggregate, tailings, wash water, organic materials and bituminous or tar products.


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The contractor shall submit to the engineer his proposals for prevention, containment and rehabilitation measures against environmental damage of the identified water and drainage systems that occur on the site. Consideration shall be given to the placement of sedimentation ponds or barriers where the soils are of a dispersive nature or where toxic fluids are used in the construction process. The sedimentation ponds must be large enough to contain runoff so that they function properly under heavy rain conditions.

h) Earthworks and Layerworks

This section includes all construction activities that involve the mining of all materials, and their subsequent placement, stockpile, spoil, treatment or batching, for use in the permanent works, or temporary works in the case of deviations. Before any stripping prior to the commencement of construction, the contractor shall have complied with the requirements of sections C1008 (e) and C1008 (g). In addition, the contractor shall take cognisance of the requirements set out below.

i) Quarries and borrow pits

The contractor's attention is drawn to the requirement of the Department of Minerals and Energy, that before entry into any quarry or borrow pit, an EMP for the establishment, operation and closure of the quarry or borrow pit shall have been approved by the Department. It is the responsibility of the contractor to ensure that he is in possession of the approved EMP or a copy thereof, prior to entry into the quarry or borrow pit. The conditions imposed by the relevant EMP are legally binding on the contractor and may be more extensive and explicit than the requirements of this specification. In the event of any conflict occurring between the requirements of the specific EMP and these specifications the former shall apply. The cost of complying with the requirements shall be deemed to be included in existing rates in the Bill of Quantities. (Read with COLTO Specification 3100 and 3200).

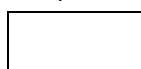
ii) Excavation, hauling and placement

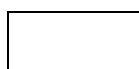
The contractor shall provide the engineer with detailed plans of his intended construction processes prior to starting any cut or fill or layer. The plans shall detail the number of personnel and plant to be used and the measures by which the impacts of pollution (noise, dust, litter, fuel, oil, sewage), erosion, vegetation destruction and deformation of landscape will be prevented, contained and rehabilitated. Particular attention shall also be given to the impact that such activities will have on the adjacent built environment. The contractor shall demonstrate his "good housekeeping", particularly with respect to closure at the end of every day so that the site is left in a safe condition from rainfall overnight or over periods when there is no construction activity. (Read with COLTO Standard Specification clauses 1217 and 3309)

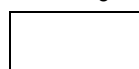
iii) Spoil sites

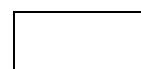
The contractor shall be responsible for the safe siting, operation, maintenance and closure of any spoil site he uses during the contract period, including the defects notification period. This shall include existing spoil sites that are being re-entered. Before spoil sites may be used proposals for their locality, intended method of operation, maintenance and rehabilitation shall be given to the engineer for his approval. The location of these spoil sites shall have signed approval from the affected landowner before submission to the engineer. No spoil site shall be located within 500m of any watercourse. A photographic record shall be kept of all spoil sites for monitoring purposes. This includes before the site is used and after re-vegetation.

The use of approved spoil sites for the disposal of hazardous or toxic wastes shall be prohibited unless special measures are taken to prevent leaching of the toxins into the surrounding


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environment. Such special measures shall require the approval of the relevant provincial or national authority. The same shall apply for the disposal of solid waste generated from the various camp establishments. The engineer will assist the contractor in obtaining the necessary approval if requested by the contractor.

Spoil sites will be shaped to fit the natural topography. These sites shall receive a minimum of 75mm topsoil and be grassed with the recommended seed mixture. Slopes shall not exceed a vertical: horizontal ratio of 1:3. Only under exceptional circumstances will approval be given to exceed this ratio. Appropriate grassing measures to minimise soil erosion shall be undertaken by the contractor. This will include both strip and full sodding. The contractor may motivate to the engineer for other acceptable stabilising methods. The engineer may only approve a completed spoil site at the end of the defects notification period upon receipt from the contractor of a landowner's clearance notice and an engineer's certificate certifying slope stability (Read with COLTO standard Specifications clause 1214). The contractor's costs incurred in obtaining the necessary certification for opening and closing of spoil sites shall be deemed to be included in the tendered rates for spoiling.

iv)

Stockpiles

The contractor shall plan his activities so that materials excavated from borrow pits and cuttings, in so far as possible, can be transported direct to and placed at the point where it is to be used. However, should temporary stockpiling become necessary, the areas for the stockpiling of excavated and imported material shall be indicated and demarcated on the site plan submitted in writing to the engineer for his approval, together with the contractor's proposed measures for prevention, containment and rehabilitation against environmental damage.

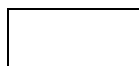
The areas chosen shall have no naturally occurring indigenous trees and shrubs present that may be damaged during operations. Care shall be taken to preserve all vegetation in the immediate area of these temporary stockpiles. During the life of the stockpiles the contractor shall at all times ensure that they are:

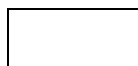
- Positioned and sloped to create the least visual impact;
- Constructed and maintained so as to avoid erosion of the material and contamination of surrounding environment; and
- Kept free from all alien/undesirable vegetation.

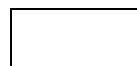
After the stockpiled material has been removed, the site shall be re-instated to its original condition. No foreign material generated / deposited during construction shall remain on site. Areas affected by stockpiling shall be landscaped, top soiled, grassed and maintained at the contractor's cost until clearance from the engineer and the relevant Authority is received.

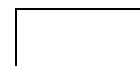
Material milled from the existing road surface that is temporarily stockpiled in areas approved by the engineer within the road reserve, shall be subject to the same condition as other stockpiled materials. Excess materials from windrows, in-situ milling or any detritus of material from road construction activities may not be swept off the road and left unless specifically instructed to do so in the contract drawing or under instruction from the engineer

In all cases, the engineer shall approve the areas for stockpiling and disposal of construction rubble before any operation commences and shall approve their clause only when they have been satisfactorily rehabilitated. (Read with COLTO Specification 3203 and 4306).


Contractor


Witness 1


Employer


Witness 1

v) **Blasting activities**

Wherever blasting activity is required on the site (including quarries and/or borrow pits) the contractor shall rigorously adhere to the relevant statutes and regulations that control the use of explosives. In addition, the contractor shall, prior to any drilling of holes in preparation for blasting, supply the engineer with a locality plan of the blast site on which shall be shown the zones of influence of the ground and air shock-waves and expected limits of fly-rock. The plan shall show each dwelling, structure and service within the zones of influence and record all details of the dwellings/structures/services including existing positions, lengths and widths of cracks, as well as the condition of doors, windows, roofing, wells, boreholes etc. The contractor, alone, shall be responsible for any costs that can be attributed to blasting activities, including the collection of fly-rock from adjacent lands and fields. The submission of such a plan shall not in any way absolve the contractor from his responsibilities in this regard. The contractor shall also indicate to the engineer the manner in which he intends to advertise to the adjacent communities and/or road users the times and delays to be expected for each individual blast.

i) **Batching sites**

Asphalt plants are considered scheduled processes listed in the second schedule to the Atmospheric Pollution Prevention Act, 1965 (Act No. 45 of 1965). Should the use of an asphalt plant be considered on site, the contractor shall be responsible to obtain the necessary permit from the Department of Environmental Affairs and Tourism, regardless of where they are sited.

Crushing plants and concrete batching plants, whether sited inside or outside of defined quarry or borrow pit areas, shall be subject to the requirements of the Department of Minerals and Energy legislation as well as the applicable industrial legislation that governs gas and dust emissions into the atmosphere. Such sites will be the subject of regular inspections by the relevant authorities during the life of the project. In addition, the selection, entry onto, operation, maintenance, closure and rehabilitation of such sites shall be the same as for those under section C1008(h)(iii), with the exception that the contractor shall provide additional measures to prevent, contain and rehabilitate against environmental damage from toxic/hazardous substances. In this regard the contractor shall provide plans that take into account such additional measures as concrete floors, bunded storage facilities, linings to drainage channels and settlement dams. Ultimate approval of these measures shall be from the relevant national authority, as shall approval of closure. The engineer will assist the contractor in his submissions to the relevant authority.

Effluent from concrete batch plants and crusher plants shall be treated in a suitable designated sedimentation dam to the legally required standards to prevent surface and groundwater pollution. The designs of such a facility should be submitted to the engineer for approval.

The contractor shall invite the relevant department to inspect the site within 2 months after any plant is commissioned and at regular intervals thereafter, not exceeding 12 months apart

j) **Spillages**

Streams, rivers and dams shall be protected from direct or indirect spillage of pollutants such as refuse, garbage, cement, concrete, sewage, chemicals, fuels, oils, aggregate, tailings, wash water, organic materials and tar or bituminous products. In the event of a spillage, the contractor shall be liable to arrange for professional service providers to clear the affected area.

Responsibility for spill treatment lies with the contractor. The individual responsible for, or who discovers a hazardous waste spill must report the incident to his/her DEO or to the engineer. The Designated Environmental Officer will assess the situation in consultation with the engineer and act

 Contractor

 Witness 1

 Employer

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as required. In all cases, the immediate response shall be to contain the spill. The exact treatment of polluted soil / water shall be determined by the contractor in consultation with the DEO and the engineer. Areas cleared of hazardous waste shall be re-vegetated according to the engineer's instructions

Should water downstream of the spill be polluted, and fauna and flora show signs of deterioration or death, specialist hydrological or ecological advice will be sought for appropriate treatment and remedial procedures to be followed. The requirement for such input shall be agreed with the engineer. The costs of containment and rehabilitation shall be for the contractor's account, including the costs of specialist input.

k) Areas of Specific Importance

Any area, as determined and identified within the project document as sensitive or of special interest within the site shall be treated according to the express instructions contained in these specifications or the approved EMP. The contractor may offer alternative solutions to the engineer in writing should he consider that construction will be affected in any way by the hindrance of the designated sensitive area or feature. However, the overriding principle is that such defined areas requiring protection shall not be changed. Every effort to identify such areas within the site will have been made prior to the project going out to tender. The discovery of other sites with archaeological or historical interest that have not been identified shall require ad hoc treatment.

i) Archaeological Sites

If an artefact on site is uncovered, work in the immediate vicinity shall be stopped immediately. The contractor shall take reasonable precautions to prevent any person from removing or damaging any such article and shall immediately upon discovery thereof inform the engineer of such discovery. The South African Heritage Research Municipality (SAHRA) is to be contacted who will appoint an archaeological consultant. Work may only resume once clearance is given in writing by the archaeologist. (Read with COLTO General Condition of Contract Subclause 4.24 as amended by Particular Condition).

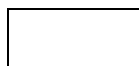
ii) Graves and middens

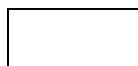
If a grave or midden is uncovered on site, or discovered before the commencement of work, then all work in the immediate vicinity of the graves/middens shall be stopped and the engineer informed of the discovery. SAHRA should be contacted and in the case of graves, arrangements made for an undertaker to carry out exhumation and reburial. The Employer will be responsible for attempts to contact family of the deceased and for the site where the exhumed remains can be re-interred. (Read with COLTO General Conditions of Contract Subclause 4.24 as amended by Particular Condition).

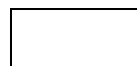
l) Noise Control

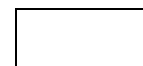
The contractor shall endeavour to keep noise generating activities to a minimum. Noises that could cause a major disturbance, for instance blasting and crushing activities, should only be carried out during daylight hours. Compliance with the appropriate legislation with respect to noise, shall be mandatory.

Should noise generating activities have to occur at night the people in the vicinity of the drilling shall be warned about the noise well in advance and the activities kept to a minimum.


Contractor


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Employer


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m) Dust Control

Dust caused by strong winds shall be controlled by means of water spray vehicles. Dust omission from batching plants shall be subject to the relevant legislation and shall be the subject of inspection by the relevant office of the Department of Minerals and Energy.

n) Alien Vegetation

The contractor shall be held responsible for the removal of alien vegetation within the road reserve disturbed during road construction. This includes, for example, service roads, stockpile areas, stop/go facilities, windrows and wherever material generated for or from road construction has been stored temporarily or otherwise within the road reserve. This responsibility shall extend for the duration of the defects notification period.


Contractor


Witness 1


Employer


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C3.4.3.2.9. RECORD KEEPING

The engineer and the DEO will continuously monitor the contractor's adherence to the approved impact prevention procedures and the engineer shall issue to the contractor a notice of non-compliance whenever transgressions are observed. The DEO should document the nature and magnitude of the non-compliance in a designated register, the action taken to discontinue the non-compliance, the action taken to mitigate its effects and the results of the actions. The non-compliance shall be documented and reported to the engineer in the monthly report.

Copies of any record of decision or EMP's for specific borrow pits or quarries used on the project shall be kept on site and made available for inspection by visiting officials from the employer or relevant environmental departments.

C3.4.3.2.10. COMPLIANCE AND PENALTIES

The contractor shall act immediately when such notice of non-compliance is received and correct whatever is the cause for the issuing of the notice. Complaints received regarding activities on the construction site pertaining to the environment shall be recorded in a dedicated register and the response noted with the date and action taken. This record shall be submitted with the monthly reports and a verbal report given at the monthly site meetings.

Any avoidable non-compliance with the above-mentioned measures shall be considered sufficient ground for the imposition of a penalty

The following penalties shall apply for environmental violations:

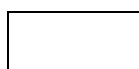
a) Unnecessary removal or damage to trees

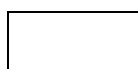
- | | | |
|---|---|------------------|
| • 2600mm girth or less | : | R 5 000 per tree |
| • Greater than 2600mm, but less than 6180mm girth | : | R10 000 per tree |
| • Greater than 6180mm girth | : | R30 000 per tree |

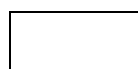
b) Serious violations:

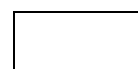
- | | | |
|--|---|-------------------------------|
| • Hazardous chemical/oil spill and/or dumping in non-approved sites. | : | R10 000 per incident |
| • General damage to sensitive environments. | : | R 5 000 per incident |
| • Damage to cultural and historical sites. | : | R 5 000 per incident |
| • Uncontrolled/unmanaged erosion (plus rehabilitation at contractor's cost). | : | R1 000 to R5 000 per incident |
| • Unauthorised blasting activities. | : | R 5 000 per incident |
| • Pollution of water sources. | : | R 10 000 per incident |

The engineer's decision with regard to what is considered a violation, its seriousness and the penalty imposed shall be final.


Contractor


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Employer


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c) Less serious violations:

- Littering on site. : R1 000 per incident
- Lighting of illegal fires on site. : R1 000 per incident
- Persistent or un-repaired fuel and oil leaks. : R1 000 per incident
- Excess dust or excess noise emanating from site. : R1 000 per incident
- Dumping of milled material in side drains or on grassed areas: R1 000 per incident
- Possession or use of intoxicating substances on site. : R 500 per incident
- Any vehicles being driven in excess of designated speed limits. : R 500 per incident
- Removal and/or damage to flora or cultural or heritage objects on site, and/or killing of wildlife. : R2 000 per incident
- Illegal hunting. : R2 000 per incident
- Urination and defecation anywhere except in designated areas. : R 500 per incident

The engineer's decision with regard to what is considered a violation, its seriousness and the penalty imposed shall be final. The calculation shall include allied construction activities in the same way as the calculation of reduced payments under section 8200. The imposition of such a penalty shall not preclude the relevant provincial or national authority from applying an additional penalty in accordance with its statutory powers. Any non-compliance with the agreed procedures of the EMP is a transgression of the various statutes and laws that define the manner by which the environment is managed.

Failure to redress the cause shall be reported to the relevant authority for them to deal with the transgression, as it deems fit.

C3.4.3.2.11. MEASUREMENT AND PAYMENT

The cost of complying to this specification shall be deemed to be included in the rates tendered for this project.

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

C100.01 Penalty for unnecessary removal or damage to trees

for the following diameter sizes

- | | |
|---|-------------|
| (a) 2600mm girth or less | number (No) |
| (b) Greater than 2600mm, but less than 6180mm girth | number (No) |
| (c) Greater than 6180mm girth | number (No) |

The unit of measurement shall be the number of trees by diameter size removed unnecessary or damaged. The penalty rates applied shall be those stated in clause C3.5.2.10.

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

C100.02 Penalty for serious violations

- | | |
|---|-------------|
| (a) Hazardous chemical/oil spill and/or dumping in non-approved sites | number (No) |
| (b) General damage to sensitive environments | |

Contractor

Witness 1

Employer

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(c)	Damage to cultural and historical sites	number (No)
(d)	Pollution of water sources	number (No)
(e)	Unauthorised blasting activities	number (No)
(f)	Uncontrolled/unmanaged erosion per incident, depending on environment impacts, plus rehabilitation at contractor's cost)	number (No)

The unit of measurement for C100.02 (a) to (f) shall be the number of serious violation incidents. The penalty rates to be applied shall be those stated in clause C3.5.2.10.

Item		Unit
C100.03	Penalty for less serious violations	
•	Littering on site	number (No)
•	Lighting of illegal fires on site	number (No)
•	Persistent or un-repaired fuel and oil leaks	number (No)
•	Excess dust or excess noise emanating from site	number (No)
•	Dumping of milled material in side drains or on grassed areas	number (No)
•	Possession or use of intoxicating substances on site	number (No)
•	Any vehicles being driven in excess of designated speed limits	number (No)
•	Removal and/or damage to flora or cultural or heritage objects on site, and/or killing of wildlife	number (No)
•	Illegal hunting	number (No)
•	Urination and defecation anywhere except in designated areas	number (No)

The unit of measurement shall be the number of less serious violation incidents. The penalty rates applied shall be those stated in clause C3.5.2.10.

The engineer's decision with regard to what is considered a violation, its seriousness and the penalty imposed shall be final. The calculation shall include allied construction activities in the same way as the calculation of reduced payments under section 8200. The imposition of such a penalty shall not preclude the relevant provincial or national authority from applying an additional penalty in accordance with its statutory powers. Any non-compliance with the agreed procedures of the EMP is a transgression of the various statutes and laws that define the manner by which the environment is managed.

Failure to redress the cause shall be reported to the relevant authority for them to deal with the transgression, as it deems fit.

Contractor

Witness 1

Employer

Witness 1

Table 1: Mechanisms that Cause Environmental Impacts during Construction Activities

SECTION	CONTENTS	ENVIRONMENTAL IMPACTS				
		POLLUTION TYPE	DEFORMATION OF LANDSCAPE	SOIL EROSION	ALIEN VEGETATION	SENSITIVE AREAS (to be completed by compiler)
1300	Camp Establishment	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
1400	Housing, Offices and laboratories	Waste treatment Hazardous waste Water supply Spillage Storage Noise/lights	Selection of site Preserve indigenous vegetation Preserve topsoil Demarcate sensitive areas	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
1500	Accommodation of Traffic	Waste treatment Hazardous waste Water supply Spillage Storage Noise/lights Dust control	Selection of site Preserve indigenous vegetation Preserve topsoil Demarcate sensitive areas Maintenance of windrows	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
1600	Overhaul	Spillage Storage Noise/lights Dust control Exhaust fumes Washing waste	Turning circles Parking areas	Restrict access to sensitive areas	Protection of indigenous vegetation Preserve topsoil	

Contractor

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Employer

Witness 1

SECTION	CONTENTS	ENVIRONMENTAL IMPACTS				
		POLLUTION TYPE	DEFORMATION OF LANDSCAPE	SOIL EROSION	ALIEN VEGETATION	SENSITIVE AREAS (to be completed by compiler)
1700	Clearing and grubbing	Waste treatment Hazardous waste Water supply Noise /lights Dust control	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Protection of indigenous vegetation Preserve topsoil	
2100 2400	- Drainage	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
3100	Borrow pits	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
3200	Stockpiling	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
3300	Mass Earthworks	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	

Contractor

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3400 3900	- Pavement layers	Waste treatment Hazardous waste Water supply Spillage Storage Noise / lights Dust control	Selection of site Preserve indigenous vegetation Preserve topsoil Demarcate sensitive areas Maintenance of windrows	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
4100	Asphalt works / sealing operations	Waste treatment Hazardous waste Water supply Spillage Storage Noise / lights Dust control Smoke control Storage of materials	Selection of site Preserve indigenous vegetation Preserve topsoil Turning circles Parking areas	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil	
5000	Ancillary roadworks	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
6000	Structures	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
7000	Concrete pavements etc	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	

Contractor

Witness 1

Employer

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C3.4.3.3 PROVISION OF STRUCTURED TRAINING**CONTENTS**

C3.4.3.3.1 SCOPE

C3.4.3.3.2 GENERIC TRAINING

C3.4.3.3.3 ENTREPRENEURIAL SKILLS TRAINING

C3.4.3.3.4 MEASUREMENT AND PAYMENT

C3.4.3.3.1 SCOPE

This specification covers the requirements for the provision of structured training to be arranged by the contractor over the period of this contract.

C3.4.3.3.2 GENERIC TRAINING

C3.4.3.3.2.1 The contractor shall, from the commencement of the contract, implement a structured progressive training programme.

C3.4.3.3.2.2 The generic training will inter alia comprise, but not be limited to the following subjects:

COURSE DESCRIPTION		ESTIMATED No. OF TRAINEES	ESTIMATED DURATION (DAYS)
1	ROAD SAFETY FOR CONSTRUCTION WORKERS		
2	FLAGMEN		
3	CONCRETE HANDLING, PLACING AND FINISHING		
4	GUARDRAILS		
5	BITUMINOUS ROAD SURFACING		

C3.4.3.3.2.3 Training shall be at or by an approved accredited organisation and shall be delivered by suitably qualified and experienced trainers.

 Contractor

 Witness 1

 Employer

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- C3.4.3.3.2.4 The tenderer shall provide with his tender full details of the structured training programme he intends to implement, which details shall include the following:
- (a) The name of the training institution and programme
 - (b) The manner in which the training is to be delivered.
 - (c) The numbers and details of the trainers

Such details shall be entered on or attached to Form RDP 6 (E) included herein.

- C3.4.3.3.2.5 The contractor shall be responsible for the provision of everything necessary for the delivery of the generic training programme, including the following:
- (a) A suitable venue with sufficient furniture, lighting and power.
 - (b) All necessary stationery consumables and study material
 - (c) Transport of the students (as necessary)

- C3.4.3.3.2.6 Generic training courses shall commence within one month of possession of site and be completed before the end of the contract period.

- C3.4.3.3.2.7 The contractor's training programme shall be subject to the approval of the engineer, and the contractor shall if so instructed by the engineer alter or amend the programme and course content if a need is identified once the contract commences.

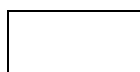
- C3.4.3.3.2.8 The contractor shall keep comprehensive records of the training given to each student and whenever required shall provide copies of such records to the engineer. At the successful completion of each course each student shall be issued with a certificate indicating the course contents as proof of attendance and completion.

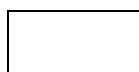
In addition to the above, a monthly return shall be submitted by the contractor. An example of the form is illustrated in Part C5 of this document (form RDP 10 (E))

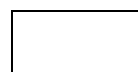
C3.4.3.3.3 ENTREPRENEURIAL SKILLS TRAINING

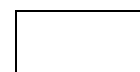
- C3.4.3.3.3.1 Small contractors, subcontractors and the Project Steering Committee (PSC) will be entitled to receive a structured training programme, which will comprise both management skills as well as business development skills.

- C3.4.3.3.3.2 The contractor shall closely monitor the performance of all small subcontractors in the execution of their contracts and shall identify all such subcontractors who, in his opinion, display the potential to benefit from structured training as may be provided for in the contract and where required by the engineer, shall make recommendations in this regard. The final list of candidates will be decided between the contractor and the engineer.


Contractor


Witness 1


Employer


Witness 1

- C3.4.3.3.3 The training will be delivered by trainers who are accredited by the Civil Engineering Training Scheme (CEITS) or other institutions recognised by the Department of Labour. Accredited training refers to both the trainers as well as to the training material.
- C3.4.3.3.4 The contractor shall facilitate in the delivery thereof, by instructing and motivating the subcontractor regarding attendance and participation therein.
- C3.4.3.3.5 The contractor shall further make all reasonable efforts to co-ordinate the programming of the subcontractor's work with that of the delivery of the structured training.
- C3.4.3.3.6 The structured training will comprise out of the following as decided by the Employer:

COURSE DESCRIPTION	ESTIMATED DURATION (DAYS)
1. BASIC BUSINESS PRINCIPLES	To be determined
2. BASIC SUPERVISION	To be determined
3. RUNNING A BUSINESS	To be determined
4. LEGAL PRINCIPLES	To be determined
5. ACHIEVING STANDARDS	To be determined

- C3.4.3.3.7 The contractor shall provide with his tender, full details of the structured training programme, which he intends to implement, which details shall include the following:
- (a) The name of the training institution and programme
 - (b) The various aspects of each type of training comprised in the programme
 - (c) The manner in which the training is to be delivered
 - (d) The numbers and details of the trainers to be utilised.

Such details of the proposed entrepreneurial training programme shall be entered on or attached to form RDP 7 (E) of the forms to be completed by the tenderer.

Contractor

Witness 1

Employer

Witness 1

- C3.4.3.3.8 The contractor shall be responsible for the provision of everything necessary for the delivery of the entrepreneurial training programme, including the following:
- (a) A suitably furnished venue (if required) with lighting and power.
 - (b) All necessary consumables, stationery and study material
 - (c) Transport of the subcontractors (as necessary)
- C3.4.3.3.9 All entrepreneurial training shall take place within normal working hours.
- C3.4.3.3.10 The contractor's training programme shall be subject to the approval of the engineer, and the contractor shall if so instructed by the engineer alter or amend the programme and course content if a need is identified once the contract commences.
- C3.4.3.3.11 The contractor shall keep comprehensive records of the training given to each subcontractor and whenever required shall provide copies of such records to the engineer. At the successful completion of each course each subcontractor shall be issued with a certificate indicating the course contents as proof of attendance and completion.

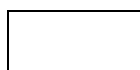
In addition to the above, a monthly return shall be submitted by the contractor. An example of the form to be used is illustrated in Part C5 of this document, (form RDP 11 (E)).

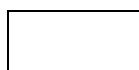
C3.4.3.3.4 MEASUREMENT AND PAYMENT

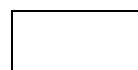
ITEM	UNIT
B12.10 Percentage for charges and profit on the provisional sums for contractor's cost and profit	
(a) Training allowance paid to targeted labour in terms of formal training	Prime Cost Sum
(b) Extra-over for administration of payment for training	Percentage (%)

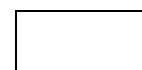
Expenditure of the above item shall be made in accordance with the general conditions of contract.

The tendered percentage is a percentage of the amount actually spent under all the provisional sums sub-items, which shall include full compensation for the handling costs of the contractor, and the profit."


Contractor


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Employer


Witness 2

C3.4.3.4 PROVISION OF THE TEMPORARY WORKFORCE**CONTENTS**

- C3.4.3.4.1 SCOPE
- C3.4.3.4.2 INTERPRETATIONS
- C3.4.3.4.3 PERMITTED SOURCES OF TEMPORARY WORKERS
- C3.4.3.4.4 EMPLOYMENT RECORDS TO BE PROVIDED
- C3.4.3.4.5 VARIATIONS IN WORKER PRODUCTION RATES
- C3.4.3.4.6 TRAINING OF THE TEMPORARY WORKFORCE
- C3.4.3.4.7 RECRUITMENT AND SELECTION PROCEDURES
- C3.4.3.4.8 TERMS AND CONDITIONS PERTAINING TO THE EMPLOYMENT OF THE TEMPORARY WORKFORCE
- C3.4.3.4.9 LABOUR RELATIONS AND WORKER GRIEVANCE PROCEDURES
- C3.4.3.4.10 THE SUBCONTRACTORS' WORKFORCES
- C3.4.3.4.11 MEASUREMENT AND PAYMENT
- C3.4.3.4.1 SCOPE

This Specification covers the provisions and requirements relating to the provision of the temporary workforce.

C3.4.3.4.2 INTERPRETATIONS**C3.4.3.4.2.1 Supporting documents**

The Tender Rules, Conditions of Contract, Standard and Project Specifications, Drawings and statutory minimum requirements relating to the employment and remuneration of labour shall *inter alia* be read in conjunction with this Specification.

C3.4.3.4.2.1.2 Definitions and abbreviations

For the purposes of this specification, the definitions given in the Conditions of Contract, the Standard Specifications and the Project Specifications, together with the following additional definitions shall, unless the context dictates otherwise, apply:

Contractor

Witness 1

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- (a) "Key Personnel" means all contracts managers, site agents, materials and survey technicians, trainers, supervisors, foremen, skilled plant operators, artisans and the like, and all other personnel in the permanent employ of the Contractor or Subcontractor who posses special skills and/or who play key roles in the Contractor's or Subcontractor's operation
- (b) "Project Committee" means a committee consisting of the Employer, the Engineer, the Contractor, (or their nominated representatives) as well as representatives of the temporary workforce, which is convened from time to time at the discretion of the Engineer, for the purposes of acting as an avenue for effective communication and liaison between all the parties referred to, in all matters pertaining to the Contract
- (c) "Subcontractor" means any person or group of persons in association, or firm, or body corporate (whether formally constituted or otherwise) not being the Contractor, to whom specific portions or aspects of the Works are sublet or subcontracted by the Contractor in accordance with the provisions of the Contract
- (d) "Worker" for the purposes of this Specification means any person, not being one of the Contractor's key personnel, nor any key personnel of any Subcontractor, who is engaged by the Contractor, a Subcontractor or the Employer to participate in the execution of any part of the Contract Works and shall include unskilled labour, semi-skilled and skilled labour, clerical workers and the like
- (e) "Workforce" means the aggregate body comprising all workers and shall, unless the context dictates otherwise, include the workforces of the Contractor and all Subcontractors
- (f) "Liaison Officer" means a representative from the temporary workforce, duly elected by them, to act on their behalf and through whom all matters pertaining to the temporary workforce can be channelised.

C3.4.3.4.2.1.3 Status

Where any provisions or requirements of this Specification are in conflict with anything elsewhere set out in the Contract, the provisions and requirements of this Specification shall take precedence and prevail.

C3.4.3.4.3 PERMITTED SOURCES OF TEMPORARY WORKERS

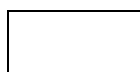
The Contractor shall as far as possible make optimum use of the human resources outside his own workforce and the workforces of all subcontractors. The temporary workforce that is to be used in the execution of the Works in terms of Part C3 may consist of the workers of various communities, and shall not be bound to one particular community.

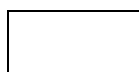
C3.4.3.4.4 EMPLOYMENT RECORDS TO BE PROVIDED

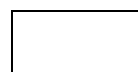
- (a) The Contractor shall maintain accurate and comprehensive records of all workers engaged on the Contract and shall provide the Engineer at monthly intervals from the commencement of the Contract, with interim records substantiating the actual numbers of employment opportunities that shall have been generated to date and the amounts actually paid in respect thereof. Such interim records shall be in a format approved by the Engineer. An example of the forms to be used is illustrated in Part C5 of this document, (forms RDP 9 and 10 (E)).
- (b) The Contractor shall, on completion of the Contract, and as a pre-requisite event to the release of any retention money in terms of the Conditions of Contract, provide the Engineer with copies of the Terms of Employment as well as independently audited documentary evidence of the total number of temporary and permanent employment opportunities actually generated during the Contract.

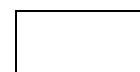
C3.4.3.4.5 VARIATIONS IN WORKER PRODUCTION RATES

Notwithstanding anything to the contrary as may be stated in or inferred from any other provision of this Contract, the Contractor shall not be entitled to any additional payment or compensation whatever, in respect of any differences as may result between the production rates actually achieved by workers in the course of the execution of the Contract Works and those production rates on which he has based his tender.


Contractor


Witness 1


Employer


Witness 1

C3.4.3.4.6 TRAINING OF THE TEMPORARY WORKFORCE

- (a) Selected members of the workforce are to be provided with structured training in accordance with the provisions of Part C3.4.3.3.
- (b) The Contractor shall make all necessary allowances in his programme of work to accommodate and facilitate the delivery of such structured training and shall comply fully with the requirements of Part C3.4.3.3.
- (c) The provision of structured training as described in Part C3.4.3.3. shall not relieve the Contractor of any of his obligations in terms of the Conditions of Contract and the Contractor shall remain fully liable for the provision, at his own cost, of all training of the workforce, additional to that as provided for in Part C3.4.3.3, as may be necessary to achieve the execution and completion of the works strictly in accordance with the provisions of the Contract.

C3.4.3.4.7 RECRUITMENT AND SELECTION PROCEDURES

C3.4.3.4.7.1 The Contractor shall be fully responsible for the recruitment and selection of workers to constitute the temporary workforce.

C3.4.3.4.7.2 The Contractor shall advise the Engineer in writing of the numbers of each category of temporary worker which he requires, together with the personal attributes which he considers desirable that each category of worker shall possess (taking due cognisance of the provisions of the Contract relating to training).

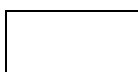
C3.4.3.4.7.3 The Contractor shall, at his own cost, take all necessary actions to advertise within the communities comprising the personnel resources, the fact that temporary employment opportunities exist and the time and place where recruiting will occur.

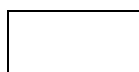
C3.4.3.4.7.4 The Contractor shall record in writing, the details of all persons applying for employment, including *inter alia*:

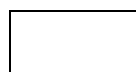
- (a) Name, address, age and sex
- (b) Marital status and number of dependants
- (c) Qualifications and previous work experience (whether substantiated or not)
- (d) Period since last economically active
- (e) Preference for type of work or task.

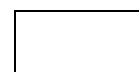
C3.4.3.4.7.5 The Contractor shall make his selection of workers from amongst the applicants, taking due cognisance of his requirements for the workforce and the provisions of the contract in regard to the provision of training to the workforce and in accordance with the following principles:

- (a) No potential temporary worker shall be precluded from being employed by the Contractor on the execution of the Works, by virtue of his lack of skill in any suitable operation forming part of the Works, unless -
 - (i) all available vacancies have been or can be filled by temporary workers who already possess suitable skills, or
 - (ii) the Time for Completion allowed in the Contract, or the remaining portion of the Contract Period (as the case may be) is insufficient to facilitate the creation of the necessary skills.
- (b) Preference shall be given to the unemployed and single heads of households.
- (c) The Contractor shall, in so far as is reasonably practicable, give priority to accommodating the applicants' expressed preferences regarding the types of work for which they are selected.
- (d) The selection process shall not be prejudicial to youth (over the age of fifteen years) and women.


Contractor


Witness 1


Employer


Witness 1

- C3.4.3.4.7.6 After making his selection, the Contractor shall advise the Engineer thereof, in writing and the Engineer shall, without undue delay, ratify the Contractor's selection.
- C3.4.3.4.7.7 The provisions of this clause shall apply *mutatis mutandis* in respect of the selection of additional or replacement members of the workforce as may be necessary from time to time during the Contract.
- C3.4.3.4.7.8 The Contractor shall, after selecting his temporary workforce, arrange at his own cost for the appointment of the Liaison Officer as representative of the workforce to act on their behalf with regards to all matters pertaining to the workforce."
- C3.4.3.4.8 TERMS AND CONDITIONS PERTAINING TO THE EMPLOYMENT OF THE TEMPORARY WORKFORCE
- C3.4.3.4.8.1 All temporary workers engaged in accordance with the provisions of Part A of the Project Specifications, shall be employed on the terms and conditions of employment as are consistent with those as set out in this Contract. The Contractor shall implement and adhere strictly to such terms and conditions relating to the employment of the temporary workforce, and subject only to the provisions of this Contract, shall not employ any temporary worker on terms and conditions which are less favourable to the worker or inconsistent with the standards and norms generally applicable to temporary workers in the Civil Engineering Industry and applicable to the particular area.
- C3.4.3.4.8.2 The Contractor shall pay to all temporary workers engaged in terms of Part A of the Project Specifications, not less than the minimum rate of remuneration as specified in Form P : Appendix to Tender.
- C3.4.3.4.9 LABOUR RELATIONS AND WORKER GRIEVANCE PROCEDURES
- C3.4.3.4.9.1 The Contractor, as the Employer of the workforce, shall be fully responsible for the establishment and maintenance at his own cost, of satisfactory labour relations on site and the resolution of all grievances of temporary workers as may occur.
- C3.4.3.4.9.2 The Contractor shall at all times adhere to the accepted norms and standards of labour relations prevailing generally in the Civil Engineering Construction Industry and shall conduct himself in a fair and reasonable manner, within the constraints as may be imposed upon him by the terms of the Contract.
- C3.4.3.4.9.3 In the event of any temporary worker engaged by the Contractor in terms of the Contract, being aggrieved with regard to his Terms of Employment, working conditions and training, he shall have the right, at his discretion, to be supported in any inquiry or disciplinary hearing or investigation instituted by the Contractor in terms of Subclause C3.4.3.4.9.2 above, by one member of the temporary workforce and one member of the Project Committee, which persons shall be nominated by the worker.
- C3.4.3.4.9.4 In the event of any grievance not being satisfactorily resolved through the application of normal dispute resolution procedures in accordance with Sub clauses C3.4.3.4.9.2 and C3.4.3.4.9.3, then either the Contractor or the worker concerned may require that the matter be referred to the Project Committee for further consideration, with a view to facilitate the resolution thereof.
- C3.4.3.4.10 THE SUBCONTRACTORS' WORKFORCES
- C3.4.3.4.10.1 The provisions of this Part C shall apply *mutatis mutandis* to the workforces employed by all subcontractors engaged by the Contractor and the Contractor shall be fully responsible for ensuring, at his own cost, that the terms of every subcontract agreement entered into are such as to facilitate the application of these provisions in respect of the workforces of all subcontractors.
- C3.4.3.4.10.2 The Contractor shall at his own cost and to the extent necessary, assist and monitor all subcontractors in the application of the provisions of this Specification, and shall, in terms of the Conditions of Contract, remain fully liable in respect of the acts, omissions and neglects of all subcontractors, in respect of the application of the provisions of this Specification.


Contractor

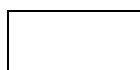

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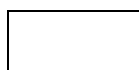

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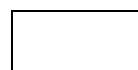

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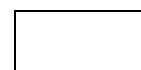
C3.4.3.4.11 MEASUREMENT AND PAYMENT

The Contractor will not be separately reimbursed or compensated in respect of the provision of the workforce and creation of temporary employment opportunities and all the Contractor's costs associated with compliance with the provisions of this part of the Project Specifications shall, except to the extent provided for in Part C3.4.3.3. as relevant, be deemed to be included in the rates tendered for the various items of work listed in the Schedule of Quantities.


Contractor


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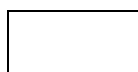
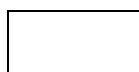
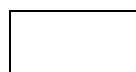
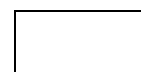

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C3.4.3.5 REQUIREMENTS OF EXTENDED PUBLIC WORKS PROGRAMME**C3.4.3.5.1 INTRODUCTION**

The requirements of the Expanded Public Works Programme are contained in the document Guidelines for the Implementation of Labour Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP) included under PART 5: ANNEXURES; Subsection C5.1. These requirements will apply to labour intensive work described under PART C3: SCOPE OF THE WORK. .

Refer to PART T2: RETURNABLE DOCUMENTS for schedules to be completed which relate to labour intensive issues.

*Contractor**Witness 1**Employer**Witness 1*

C3.5 MANAGEMENT

3.5.1 Planning and Programming

The Contractor shall supply within the period stated in the contract Data a suitable and realistic construction programme, cash flow diagram, and critical path diagram for the consideration of the Engineer. This programme shall show the proposed scheduling and methods of execution of the Works and the resources to be allocated to each item or phase of the work. Quantities proposed for execution during each week and the anticipated cash-flow based upon these quantities should be shown, due allowance being made for price escalations and retention moneys.

The programme shall take provision for the accommodation of other contractor's requirements. It will be required from the contractor to liaise with other contractors to ensure continuous co-ordination and execution of the scheduled work.

3.5.2 Recording of weather

3.5.3 The Contractor shall provide and install a rain gauge on site and shall record rainfall data in the site diary. A site diary will be issued to the Contractor.

3.5.4 Health and Safety

3.5.3.1 Health and Safety Requirements

The Occupational health and Safety Act, Act85 of 1993 shall apply to this contract.

The Contractor shall comply with the Particular Specification for Occupational Health and Safety.

3.5.3.2 Protection of the Public

As the above entails working in an already developed area where services are provided to the general public special attention must be paid to the following aspects:

- a) No blasting or working with percussion tools will be allowed unless prior written approval from the Engineer and local authorities is obtained.
- b) Safety of the public must be of prime importance and the outmost care must be taken to ensure that the correct signs, barriers and warning devices are in place.
- c) Movement of construction equipment must be controlled on site at all times.

Site meetings and procedures

The Employer's Representative and the Contractor shall hold meetings relating to the progress of the works at regular intervals and at other such times as may be necessary. The Contractor shall attend all site meetings and shall ensure that all persons under his jurisdiction are notified timeously of all site meetings should the Employer's Representative require their attendance at such meetings.

The Contractor shall keep on site a set of minutes of all site meetings, daily records of resources (people and equipment employed), a site instruction book, a complete set of contract working drawings and a copy of the procurement document and make these available at all reasonable times to all persons concerned with the contract.


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Water and electricity

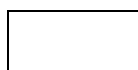
The Employer does not warrant that any water supply or electricity supply that may exist is adequate for the proper execution of the works. The responsibility strategies in terms of the tabulation below that will apply to the contract is:

- a) water : A
b) electricity : A

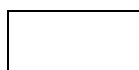
Service	Option		
	A Contractor responsibility	B Employer responsibility	C
Water	The Contractor is to provide, and remove and make good upon completion, all the necessary temporary plumbing connections and purchase water from the local authority for the works at his own cost.	The Contractor shall make, and upon completion remove, all the necessary connections to the Employer's water supply at designated points and make use of water free of charge for construction purposes only.	The Contractor shall make, and upon completion remove, all the necessary connections and water meters to the Employer's water supply at designated points and be responsible for costs associated with all water consumed.
Electricity	The Contractor is to provide, and remove and make good upon completion, all the necessary temporary electrical connections and installations and purchase electricity from the local authority / ESKOM for the works at his own cost.	The Contractor shall make, and upon completion remove, all the necessary electrical connections to the Employer's electrical supply at designated points and make use of electricity free of charge for construction purposes only.	The Contractor shall make, and upon completion remove, all the necessary connections and meters to the Employer's electrical supply and be responsible for costs associated with all electricity consumed.

SANS 1921-5, Construction and management requirements for works contracts – Part 5: Earthworks activities which are to be performed by hand.

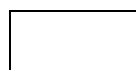
Clause	Specification Data
Essential Data:	
5.1	The depth of trenches which are to be excavated by hand is 1,5 metres.
Additional clauses:	
1	Stone pitching and rubble concrete masonry All stone required for stone pitching and rubble concrete masonry, whether grouted or dry, shall be collected, loaded, off loaded and placed by hand. Sand and stone shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m. Grout shall be mixed and placed by hand.
2	Manufactured Elements Elements manufactured or designed by the Contractor, such as manhole rings and cover slabs, precast concrete planks and pipes, masonry units and edge beams shall not individually, have a mass of more than 320kg. In addition the items shall be large enough so that four workers can conveniently and simultaneously acquire a proper hand hold on them.



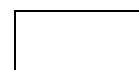
Contractor



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Witness 1

SANS 1921-6, Construction and management requirements for works contracts – Part 6: HIV/AIDS awareness.	
4.2.1(a)	A qualified service provider is a service provider that is one that is accredited or provisionally accredited training service provider in the HIV/AIDS field. A list of accredited service providers can be obtained from the Construction SETA (CETA) (tel 011-265 5900), Health and Welfare SETA (HWSETA) (011-622 6852) or on the Health and Welfare SETA website: www.hwseta.org.za .
4.2.1(a)	The HIV/AIDS awareness programme is to be repeated at four month intervals throughout the duration of the contract. (Four times in total, including the initial one at the start of the contract.)
Additional clauses	
	The duration of each workshop is not to be less than 2 ½ hours.

3.5.5 Particular / generic specifications

The management of the site shall be in accordance with the provisions of the COLTO Standard Specification for Road and Bridge Works for State Authorities (1998 edition), obtainable from the South African Institution of Civil Engineering.

3.5.6 Recording of weather

The Contractor shall erect an effective rainfall gauge on the site and record the daily rainfall figures in a book. Such book shall be handed to the employer's representative for his signature no later than 12 days after rain that is considered to justify an extension of time occurs.

The following template for the record purposes of rainfall should be used:

	Aug 10	Sep 10	Oct 10	Nov 10	Dec10	Jan 11	Feb 11	Mar 11
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
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Contractor

Witness 1

Employer

Witness 1

22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
Total								

And then summarised accordingly for each month:

Month	Rainfall (mm)	Rainfall Days	Place Recorded
Total			

3.5.7 Unauthorised persons

The Contractor shall keep unauthorized persons from the works at all times. Under no circumstances may any person except guards be allowed to sleep on the building site.

3.5.8 Management meetings

A progress meeting termed Site Meeting will be held within monthly intervals. The Contractor shall provide a venue and adequate seating for all members of the Project team i.e. The Client, The Engineer, the Ward Concillor, the Local Municipality's representative, members of the community's steering committee, the CLO, the Safety officer, any other stakeholders (e.g. Private Enterprise, Mentors etc) and key members of the Contractors staff. Site inspection meetings termed Technical Meetings will also be held within monthly intervals and is approximately held midway between Site Meetings. The Contractor shall in terms of the Health and Safety Regulations hold safety meeting weekly. The Minutes of the Safety meeting shall be submitted to the Engineer at every Site Meeting

3.5.9 Forms for contract administration

The Contractor shall submit to the Engineer at every Site Meeting or by the 24th of every month the following schedules:

- 5.6.1 Labour Return Schedule (These forms are available electronically)
- 5.6.2 Plant Schedule
- 5.6.3 Copies of the Minutes of the Safety Meetings
- 5.6.4 Copies of the Site Diary Recordings
- 5.6.5 An updated Construction Programme

 Contractor

 Witness 1

 Employer

 Witness 1

3.5.10 Electronic payments

The Contractor shall include on the Tax Invoice submitted with all claims the following banking details:

- Account Holder
- Bank Name
- Account Number
- Bank Branch Code
- Bank Branch Name
- Type of Account

The Employer is not under any obligation to transfer the Contractors payment electronically.

3.5.11 Daily records

The Contractor is to keep accurate daily records of the following items on an A4 Book in duplicate:

- Date
- Weather conditions (include rainfall mm and time recorded if applicable)
- Safety Measures (include signage installed, barriers, all measures undertaken with the time checked)
- Plant used
- Activities/ Production
- Labour used (differentiate between local and non-local)
- Problems or difficulties experienced
- Information request or if follow was made (include dates and times of correspondence)
Training (if or when it is applicable)

3.5.12 Payment certificates

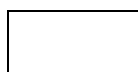
The Contractor shall submit the following information together with all claims to be verified and certified by the Engineer for payment by the Engineer:

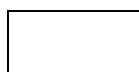
- A detailed calculation sheet for all measurable items in accordance with the payment criteria relevant to that item.
- A complete schedule of quantities drawn up by the Contractor indicating all claims i.e. previous, present and accumulative with the total applicable to the accumulative quantities.
- A comprehensive Summary Page indicating all previous payments, retentions, escalation totals, penalties, discounts, guarantee deductions, material claimed, other costs (e.g. acceleration), value added tax, subtotals and totals.
- Escalation CPA indices were applicable.
- Proof of payment for all Preliminary Sums (e.g. CLO, Training, Daywork items etc)
- Proof of material including delivery notes for all material claimed as material on site)
- An draft copy of the Tax Invoice

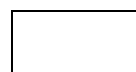
The Contractor shall ensure that the projected cashflow allows 48 hours for the processing of payment certificates by the Engineer. The Contractor has to receive written acceptance from the Engineer on behalf of himself and the Client if more than one payment certificated is permitted monthly.

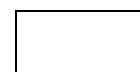
3.5.13 Permits

The Contractor's staff is not required by have security or entrance permits to enter the site.


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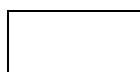
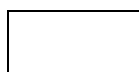
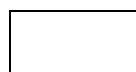
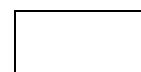
3.5.14 Proof of compliance with the law

3.5.11.1 Basic Conditions of Employment Act 1997

3.5.11.2 Occupation Health and Safety Act

3.5.15 Annexes

A complete book of drawings is issued with this Tender Document. The Tenderers must ensure that they have received a full set of drawings and must return the set of drawings with the Tender


Contractor
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Employer
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C3.6 PROJECT SPECIFICATIONS: ADDITIONAL SPECIFICATIONS

C3.6.1 HEALTH AND SAFETY SPECIFICATION

CONTENTS

C3.6.1.1	SCOPE
C3.6.1.2	INTERPRETATIONS
C3.6.1.3	GENERAL REQUIREMENTS OF HEALTH AND SAFETY PLAN
C3.6.1.4	RISK ASSESMENT
C3.6.1.5	RESOURCES
C3.6.1.6	MATERIALS
C3.6.1.7	CATERGORIES OF WORK
C3.6.1.8	IMPLEMENTATION OF CONTRACTOR'S HEALTH AND SAFETY PLAN
C3.6.1.9	AUDITING
C3.6.1.10	MEASUREMENT AND PAYMENT

ANNEXURES

ANNEXURE 1 APPOINTMENTS LETTERS

- ANNEXURE 1.1: Appointment of Assistant Construction Supervisor
- ANNEXURE 1.2 Appointment of Construction Site Health and Safety Officer
- ANNEXURE 1.3: Appointment of Construction Vehicle and Mobile Plant Inspector
- ANNEXURE 1.4: Appointment of Subcontractor
- ANNEXURE 1.5: Appointment of Construction Supervisor
- ANNEXURE 1.6: Appointment of Excavation Work Supervisor
- ANNEXURE 1.7: Appointment of Formwork and Support Work Supervisor
- ANNEXURE 1.8: Appointment of Ladder Inspector
- ANNEXURE 1.9: Appointment of Risk Assessor
- ANNEXURE 1.10:Appointment of Scaffolding Supervisor
- ANNEXURE 1.10:Appointment of Stacking Supervisor

ANNEXURE 2 NOTIFICATION TEMPLATES

- ANNEXURE 2.1:Notification for Construction Work

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PAP- HEALTH AND SAFETY SPECIFICATION

C3.6.1.1 SCOPE

1.1 Scope of Specification

This specification covers the principles, duties, responsibilities, liabilities, and requirements applicable in respect of health and safety in the work place on construction work.

This document constitutes the Employers' Health and Safety Specification as defined in the Construction Regulations, 2003 of the Occupational Health and Safety Act (Act 85 of 1993).

This specification applies to tunneling although the minimum requirements for tunneling are contained in the Mines Health and Safety Act. This specification however does not apply to underground construction at this point in time as covered by the Mines Health and Safety Act, 1996 (Act 29 of 1996) as amended.

1.2 Philosophy

Some of the terms and requirements of the Occupational Health and Safety Act and its Regulations may be novel to Contractors. This specification has therefore been prepared as an instructive guideline without being prescriptive, constraining the competitive advantage or interfering with the legal obligations of the responding parties.

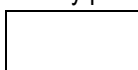
The Health and Safety Plan required in terms of this specification may also be novel to Contractors. This specification has therefore been prepared in such a way to allow Contractors to employ the services of specialist consultants for the preparation and implementation of the same during the construction of the Works.

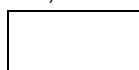
Health and safety can only be assured on construction works if all stakeholders buy into the Health and Safety plan and when the health and safety of all is an integrated line accountability of all management staff and workers on site. The management systems that are provided for in this specification is to enable the performance statistics of health and safety to be regularly captured, the intention of these systems is not to achieve health and safety by policing the conduct of the Contractor's employees.

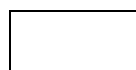
In addition to ensuring health and safety, the intention of the management system is rather to commercially exploit the benefit of doing things right the first time that goes hand in hand with top health and safety performance. Accidents and injuries never pay. The loss of production and the cost of injuries, however, relatively infrequent they may be, far outweigh the effort required to maintain top health and safety on construction.

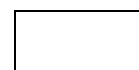
The specification accordingly provides for:

- a) Independent periodic audits to ensure an unbiased pursuit of health and safety,
- b) Follow-up audits to ensure the implementation of prescribed remedial actions,
- c) The review of the efficiency and effectiveness of the Contractor's Health and Safety Plan,
- d) The preparation of regular reports of inspections and accidents to enable the tracking of changes in health and safety performance,


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- e) The monitoring of conditions on a continuously pro-active basis to ensure that hazards are without delay identified, assessed and remedied should it threaten the health and safety of persons and property,
- f) Ad hoc inspections to ensure that health and safety is pursued with dedication and not out of intimidation or coercion, and
- g) Development of all aspects of the Contractor's Health and Safety Plan.

The fundamental intention of this specification is that the preservation of health and safety will become a core value of all involved during the construction of the Works.

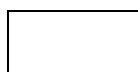
This Specification does not require the preparation of an unduly extensive or complex risk assessment. The Contractor should rather prepare a risk assessment which takes the size of the project, the size of the Contractor's organization, the conditions of the workplace and the nature, complexity and significance of the hazards likely to be encountered during the execution of the Works into account.

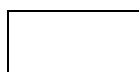
C3.6.1.2 INTERPRETATIONS

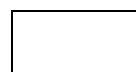
2.1 Supporting specifications

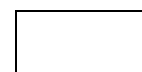
Where this specification is required for a project, the following specifications (as amended) shall, inter alia, form part of the contract document:

- a) Occupational Health and Safety Act, 1993, and its regulations which shall include, but shall not be limited to the following:
 - Construction Regulations, 2003,
 - General Safety Regulations,
 - General Administrative Regulations, 1996,
 - Driven Machinery Regulations, 1988,
 - Electrical Installation Regulations, 1992,
 - Electrical Machinery Regulations, 1988,
 - Environmental Regulations for Workplaces, 1987, and
 - Facilities Regulations, 1990.
- b) Clauses 6.(5)b, 6.(6), 6.(7) and 6.(8) of the Special Conditions of Contract.
- c) The applicable SANS 1200 specifications as listed in Section 4.1 of this Contract Document.


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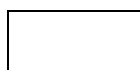
2.2 Application

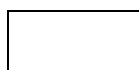
This specification contains clauses that are applicable to the occupational health and safety requirements of the Occupational Health and Safety Act, 1993 and its Regulations, in particular the Construction Regulations, 2003 promulgated on 18 July 2003 in terms of Section 43 of the Act.

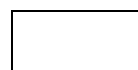
2.3 Definitions

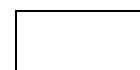
In the Contract (as defined in clause 1.(1)(e) of the Conditions of Contract) the following words and expressions shall have the meanings hereby assigned to them except where the context otherwise requires:

- (a) "Assistant Construction Supervisor" means a competent person appointed in accordance with regulation 6.(2) of the Construction Regulations, 2003, in writing by the Contractor, with written notification to the Engineer.
- (b) "Batch Plant Supervisor" means a competent person appointed in accordance with regulation 18.(1) of the Construction Regulations, 2003, in writing by the Contractor, with written notification to the Engineer.
- (c) "Construction Health and Safety Officer" means a competent person appointed in accordance with regulation 6.(6) of the Construction Regulations, 2003, in writing by the Contractor, with written notification to the Engineer.
- (d) "Construction Supervisor" means a competent person appointed on a full-time basis in accordance with regulation 6.(1) of the Construction Regulations, 2003, in writing by the Contractor, with written notification to the Engineer.
- (e) "Construction Vehicles & Mobile Plant Inspector" means a competent person appointed in accordance with regulation 21.(1)(j) of the Construction Regulations, 2003, in writing by the Contractor, with written notification to the Engineer.
- (f) "Contractor" means the natural or juristic person or partnership whose tender has been accepted by or on behalf of the Employer and, who is defined as the Principal Contractor in the Construction Regulations, 2003.
- (g) "Demolition Work Supervisor" means a competent person appointed in accordance with regulation 12.(1) of the Construction Regulations, 2003, in writing by the Contractor with written notification to the Engineer.
- (h) "Employer's Designer" means the natural or juristic person or partnership named in the Appendix to Tender or any other natural or juristic person or partnership appointed from time to time by the Employer for the design of the portion of the Permanent Works which the Employer is responsible to design in terms of this Contract.
- (i) "Contractor's Designer" means the natural or juristic person or partnership appointed from time to time by the Contractor and notified in writing to the Engineer and Employer for the design of the portion of the Permanent Works which the Contractor is responsible to design in terms of this Contract, and for the design of the Temporary Works.

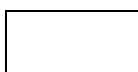

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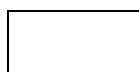

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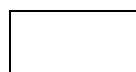

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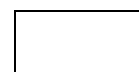

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- (j) "Electrical Temporary Installation Inspector" means a competent person appointed in accordance with regulation 22.(d) of the Construction Regulations, 2003, in writing by the Contractor, with written notification to the Engineer.
- (k) "Employer" means the natural or juristic person or partnership for whom the Works are to be executed, who is named as the Employer in the Conditions of Contract and who is known as the "Client", in the Occupational Health and Safety Act, 1993 and its regulations.
- (l) "Engineer" means the natural or juristic person or partnership named as the Engineer in the Conditions of Contract and appointed by the Employer to act as the Engineer in terms of this Contract.
- (m) "Engineer's Representative" means the person appointed by the Engineer in terms of Clause 2 of the Conditions of Contract.
- (n) "Excavation Work Supervisor" means a competent person appointed in accordance with regulation 11.(1) of the Construction Regulations, 2003, in writing by the Contractor, with written notification to the Engineer.
- (o) "Explosive Powered Tools Issuer" means a competent person appointed in accordance with regulation 19.(2)(g)(i) of the Construction Regulations, 2003, in writing by the Contractor, with written notification to the Engineer.
- (p) "Fall Protection Developer" means a competent person appointed in accordance with regulation 8.(1)(a) of the Construction Regulations, 2003, in writing by the Contractor, with written notification to the Engineer.
- (q) "Fire Extinguisher Inspector" means a competent person appointed in accordance with regulation 27.(h) of the Construction Regulations, 2003, in writing by the Contractor, with written notification to the Engineer.
- (r) "Formwork and Support Work Supervisor" means a competent person appointed in accordance with regulation 15.(1) of the Construction Regulations, 2003, in writing by the Contractor, with written notification to the Engineer.
- (s) "Hazard" means any object, action or condition that can potentially harm the health and safety of persons or property.
- (t) "Hazard Identification" means the identification and documenting of existing or expected hazards.
- (u) "Health and Safety Consultant" means the natural or juristic person or partnership appointed by the Contractor to assist in any matters related to health and safety on the construction site.
- (v) "Health and Safety Plan" means a documented plan, prepared by the Contractor, of work procedures to mitigate, reduce or control hazards identified.
- (w) "Health and Safety Specification" means a documented specification of all health and safety requirements and criteria to mitigate, reduce or control hazards identified.
- (x) "Health and Safety Representative" means the person/s designated in accordance with section 17 of the Occupational Health and Safety Act.
- (y) "Ladder Inspector" means a competent person appointed in accordance with regulation 13 of the General Safety Regulations, in writing by the Contractor, with written notification to the Engineer.
- (z) "Material Hoist Inspector" means a competent person appointed in accordance with regulation 17.(8)(a) of the Construction Regulations, 2003 in writing by the Contractor, with written notification to the Engineer.


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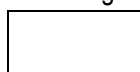
- (aa) "Method Statement" means a document detailing the key activities to mitigate, reduce or control hazards identified.
- (bb) "Professional Engineer" means any person employed from time to time by either the Employer or Contractor who holds registration as either a Professional Engineer or Professional Certificated Engineer under the Engineering Profession Act, 2000 (Act No. 46 of 2000).
- (cc) "Professional Technologist" means any person employed from time to time by either the Employer or Contractor who holds registration as a Professional Technologist under the Engineering Profession Act, 2000 (Act No. 46 of 2000).
- (dd) "Risk" means the likely occurrence and impact of a hazard.
- (ee) "Risk Assessment" means a programme carried out to identify and evaluate the likely occurrence and impact of all hazards.
- (ff) "Risk Assessor" means a competent person appointed in accordance with regulation 7.(1) of the Construction Regulations, 2003, in writing by the Contractor, with written notification to the Engineer.
- (gg) "Safety Agent" means a competent natural or juristic person or partnership named in the Appendix to Tender or any other person appointed from time to time by the Employer and notified in writing to the Contractor to act on behalf of the Employer for the purposes of this specification.
- (hh) "Scaffolding Supervisor" means a competent person appointed in accordance with regulation 14.(2) of the Construction Regulations, 2003, in writing by the Contractor, with written notification to the Engineer.
- (ii) "Stacking Supervisor" means a competent person appointed in accordance with regulation 26.(a) of the Construction Regulations, 2003, in writing by the Contractor, with written notification to the Engineer.
- (jj) "Subcontractor" means the natural or juristic person or partnership who is appointed by the Contractor with prior consent of the Engineer to execute certain tasks associated with the Works and who is also an employer as defined in section 1 of the Occupational Health and Safety Act.
- (kk) "Suspended Platforms Supervisor" means a competent person appointed in accordance with regulation 15.(1) of the Construction Regulations, 2003, in writing by the Contractor, with written notification to the Engineer.

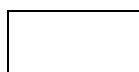
2.4 Duties, responsibilities and liabilities

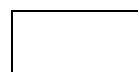
2.4.1 Principal Parties

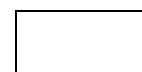
This section covers the duties, responsibilities and liabilities of the following principal parties:

- Employer
- Employer's Safety Agent
- Contractor
- Subcontractor
- Employer's Designer
- Contractor's Designer


Contractor


Witness 1


Employer


Witness 1

The duties and responsibilities of the various principal parties are briefly summarized below (the numbers indicated correspond to the applicable regulation number in the Construction Regulations, 2003). The intention of the summary is not to replace the Regulations, but is included for indicative purposes. The liabilities of each party are also shown.

a) Employer

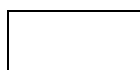
In addition to the duties, responsibilities and liabilities specified in the Conditions of Contract, the Employer shall have the following duties and responsibilities to ensure compliance with the Construction Regulations, 2003:

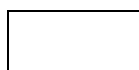
- 4.(1)(a) Prepare health and safety specifications for the Works.
- 4.(1)(a) Provide copies of the specifications to Tenderers or to the appointed Contractor.
- 4.(1)(b) Provide any information to the Contractor that may affect the health and safety of his employees.
- 4.(1)(c) Appoint the Contractor in writing for the Works.
- 4.(1)(d) Take reasonable steps to ensure that the Contractor's Health and Safety Plan is implemented and maintained on the Works (which shall include monthly audits).
- 4.(1)(e) Stop the Contractor from executing work, not in accordance with, his Health and Safety Plan or which poses a threat to the health and safety of persons.
- 4.(1)(f) Ensure that sufficient health and safety information and appropriate resources are made available to the Contractor when changes are brought about to the design.
- 4.(1)(g) Ensure that the Contractor is registered and in good standing with the compensation fund or with a licensed compensation insurer prior to the commencement of the Works.
- 4.(1)(h) Ensure that Tenderers have made provision in their tenders for the cost of health and safety measures during the construction of the Works.
- 4.(2) Discuss and negotiate the contents of the Contractor's Health and Safety Plan.
- 4.(2) Approve the Contractor's Health and Safety Plan for implementation.
- 4.(3) On request, make available copies of the Contractor's Health and Safety Plan to his employees, his Subcontractors and inspectors.
- 4.(4) Satisfy himself on the competencies and resources of the Contractor he intends appointing.
- 4.(6) Satisfy himself on the competencies and resources of his Safety Agent should he decide to appoint one.

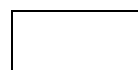
In terms of Clause 6.(6) of the Special Conditions of Contract, the Contractor accepts sole liability as mandatory for due compliance with the Occupational Health and Safety Act, 1993 and all its regulations including the Construction Regulations, 2003. The Employer will only be responsible for the duties imposed on the Employer in terms of the Construction Regulations, 2003 as listed above.

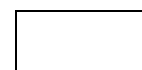
b) Employer's Safety Agent

Where the Employer decides to appoint an agent in accordance with regulation 4.(5) of the Construction Regulations, 2003, the duties and responsibilities as imposed by these regulations upon the Employer shall as far as reasonably practicable apply to his Safety Agent.


Contractor


Witness 1


Employer


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c) Contractor

In addition to the duties, responsibilities and liabilities specified in the Conditions of Contract, the Contractor shall have the following duties and responsibilities to ensure compliance with the Construction Regulations, 2003:

- 3.(1)(a) Notify the provincial director in writing of the commencement of the construction works.
- 3.(3) Ensure that a copy of the notification letter is kept on site for inspection on request as well as proof of its receipt by the Department of Labour.
- 5.(1) Demonstrate a Health and Safety Plan, based on the Employer's health and safety specifications.
- 5.(1) Apply the Health and Safety Plan from the Commencement Date until completion of the Works.
- 5.(2) Ensure co-operation between all contractors to enable each to comply with the provisions of Construction Regulations.
- 5.(3)(a) Provide any Tenderer or Subcontractor with copies of the Employer's health and safety specifications.
- 5.(3)(b) Appoint Subcontractors in writing.
- 5.(3)(c) Ensure that each Subcontractor's Health and Safety Management Plan is implemented and maintained on their portion of the Works.
- 5.(3)(d) Stop any Subcontractor from executing Works, not in accordance with, the Contractor's Health and Safety Plan or which poses a threat to the health and safety of persons.
- 5.(3)(e) Ensure that sufficient health and safety information and appropriate resources are made available where applicable, to the Subcontractor when changes are brought about to the design of the Works.
- 5.(3)(f) Ensure that his Subcontractor is registered and in good standing with the compensation fund or with a licensed compensation insurer prior to the commencement of the Works.
- 5.(3)(g) Ensure that his Tenderers have made provision in their tenders for the cost of health and safety measures during the construction of the Works in line with the requirements of the Employers Health and Safety Specification and his Health and Safety Management Plan.
- 5.(5) Discuss and negotiate the contents of his Subcontractor's Health and Safety Plan, to ensure compliance with the Employer's Health and Safety Specification and consistent with the Contractors Health and Safety Management Plan.
- 5.(5) Approve his Subcontractor's Health and Safety Plan for implementation and to keep records of all such approvals on site for auditing purposes.
- 5.(6) On request, make available a copy of his and his Subcontractor's Health and Safety Plan to an employee, inspector, contractor, the Employer or the Employer's Safety Agent.
- 5.(7) Open and maintain a record management system regarding health and safety for the Contractors own and Subcontractors' Health and Safety Documentation on the construction site.
- 5.(7) Upon request, make available his health and safety record management system to an inspector, Employer, the Employer's Safety Agent or the Contractor.

 Contractor

 Witness 1

 Employer

 Witness 1

- 5.(8) Deliver the health and safety record management system to the Employer upon completion of the Works.
- 5.(9) Ensure that a comprehensive and updated list of all his Subcontractors (including their respective subcontracting agreements) are included in the health and safety record management system.
- 5.(10) Satisfy himself on the competencies and resources of the Subcontractor he intends appointing.
- 6.(1) Appoint a construction supervisor.
- 6.(3) Appoint assistant construction supervisors if required by an inspector.
- 6.(5) Appoint individual construction supervisors for individual construction sites.
- 6.(6) The Contractor shall after due consideration of the complexity, size and potential hazards and associated risks as well as controls towards the mitigation of risks, appoint a safety officer in writing. The contractor shall submit a detailed CV of the envisaged Safety Officer appointment for final acceptance thereof by the Employer or his Safety Agent.
- 6.(7) Provide opportunities to the construction safety officer to provide inputs into the Health and Safety Plan.
- 6.(8) Satisfy himself with the competencies and resources of the construction safety officer he intends appointing.
- 7.(1) Perform a risk assessment prior to the commencement of any construction work.
- 7.(2) On request, make available copies of the his/her risk assessment.
- 7.(3) Consult with the health and safety committee on the development, monitoring and review of the risk assessment.
- 7.(4) Ensure that all employees are informed, instructed and trained regarding any hazard and the related work procedures before any work commences. The contractor shall ensure that proof of such is available on site for auditing purposes.
- 7.(5) Ensure that all Subcontractors are informed regarding any hazard as stipulated in the risk assessment. Further that Subcontractors conduct their own risk assessments as and when required
- 7.(6) Analyze ergonomic related hazards and address the same in the risk assessment.
- 7.(7) Ensure that all employees undergo health and safety induction prior to permitting each employee access to the Works. The Contractor shall ensure that proof of such is available on site for auditing purposes.
- 7.(8) Ensure that all visitors undergo health and safety induction and are provided with the necessary personal protective equipment. The Contractor shall ensure that proof of such is available on site for auditing purposes.
- 7.(9) Ensure that every employee is in possession and carries at all times his proof of health and safety induction training.
- 9.(1)(a) Prevent the uncontrolled collapse of any structure which may become unstable due to the carrying out of construction work.
- 9.(1)(b) Ensure that no structure is loaded in an unsafe manner.

 Contractor

 Witness 1

 Employer

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- 9.(3) Ensure that all construction drawings are on site and available on request by an inspector, contractors, Employer, the Employer's Safety Agent or employee.

In terms of Clause 6.(6) of the Special Conditions of Contract, it shall be deemed that the parties to this Contract have agreed in writing in terms of Section 37(2) of the Occupational Health and Safety Act, 1993 that the Contractor accepts sole liability for due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures imposed by the Occupational Health and Safety Act, 1993 and all its regulations, including the Constructions Regulations, 2003, for which he is liable as mandatory.

d) Subcontractor

To ensure compliance with the Construction Regulations, the Subcontractor shall:

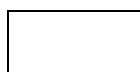
- 5.(4) Demonstrate a Health and Safety Plan, based on the Employer's health and safety specification.
- 5.(4) Apply his Health and Safety Plan from the Commencement Date and until completion of the Works.
- 5.(12) Satisfy himself on the competencies and resources of any Subcontractor he intends appointing.
- 5.(14) Provide the Contractor with any information which might affect the health and safety of any person or which might justify a review of the Health and Safety Plan.

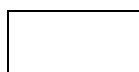
In addition to the above items, the Subcontractor shall, to ensure compliance with the Construction Regulations, comply with regulations 5.7, 6.(1), 6.(3), 6.(5), 6.(6), 6.(7), 6.(8), 7.(1), 7.(2), 7.(3), 7.(4), 7.(6), 7.(7), 7.(8), 7.(9), 9.(1)(a), 9.(1)(b) and 9.(3), summarized in Section 2.4.1(c) above.

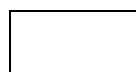
e) Designer (Employer's Designer or Contractor's Designer)

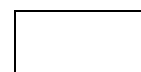
To ensure compliance with the Construction Regulations, 2003, the Designer (as defined in the Construction Regulations, 2003) shall:

- 9.(2) Make available to the Employer all relevant information affecting the pricing of the Works.
- 9.(b) Inform the Contractor of any hazards relating to the Works.
- 9.2(b) Make available all information required for the safe execution of the Works.
- 9.2(c) Ensure that information relating to geo-sciences, designs loads, and the methods and sequencing of construction processes are made available to the Contractor in a report.
- 9.2(d) Not include dangerous procedures or hazardous materials in the structure's design which could be avoided.
- 9.2(e) Make provision in the design of the Works for hazards likely to be encountered during its subsequent maintenance.
- 9.(2)(f) Carry out inspections of the construction work during the construction period to ensure compliance with the designs.
- 9.2(f) Keep records of the inspections carried out on the construction site.
- 9.2(g) Stop any contractor from executing works not in accordance with the designs.
- 9.2(h) Conduct a final inspection of the completed Works prior to its commissioning.


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- 9.2(h) Issue a completion certificate to the Contractor subsequent to a successful final inspection.
- 9.(2)(i) Ensure that cognizance is taken of ergonomic design principles in order to minimize related hazards.

The Employer's Designer shall only accept responsibility to comply with the Construction Regulations, 2003 for that portion of the Permanent Works which the Employer is responsible to design in terms of the Contract.

The Contractor's Designer shall accept sole responsibility and liability to comply with the Construction Regulations, 2003 for that portion of the Permanent Works for which the Contractor is responsible to design in terms of the Contract as well as the design of the Temporary Works.

2.4.2

Secondary Parties

This section covers the duties, responsibilities and liabilities of the following secondary parties:

- Construction Health and Safety Officer
- Contractor's Employees
- Fall Protection Developer
- Health and Safety Consultant
- Health and Safety Representative
- Risk Assessor

a) Construction Health and Safety Officer

The Construction Health and Safety Officer will act as Health and Safety advisor to the site management staff, ensuring the integrity of the Safety management System and Plan and its implementation. The Construction Health and Safety Officer can therefore never take over the line management responsibilities for safe work practices.

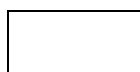
The Contractor is responsible for the development of the position outcomes descriptors for the Construction Health and Safety Officer. This documentation shall be available on site for auditing purposes.

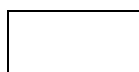
The Construction Health and Safety Officer shall if given an opportunity, provide an input into the Contractor's Health and Safety Plan.

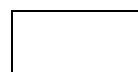
b) Contractor's Employees

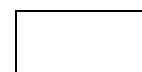
All employees will be responsible for safety on the construction site and the work place as prescribed in section 14 of the Occupational Health and Safety Act, 1993 and briefly summarized as follows:

- Take reasonable care for the health and safety of himself and of other persons who may be affected by his acts,
- Co-operate with his employer with regards to health and safety to ensure that his employer complies with requirements imposed on him,
- Obey the health and safety rules and procedures laid down by his employer,


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- Report any unsafe or unhealthy situation to his employer or to the health and safety representative for his workplace,
- Immediately report any incident in which he was involved which has caused an injury to himself or others, and
- Assist in inquiries and incident investigations.

No employee shall intentionally or recklessly interfere with, damage or misuse anything which is in the interest of health and safety

c) Fall Protection Developer

The Fall Protection Developer will be responsible for the preparation and maintenance of a fall protection plan to be implemented by the Contractor, in such a manner to ensure compliance with regulation 8 of the Construction Regulations, 2003.

d) Health and Safety Consultant

The Health and Safety Consultant shall assist the Contractor in any health and safety matters on the Works for which he is appointed.

e) Health and Safety Representative

The Health and Safety Representative shall fulfill the duties as set out in section 18 of the Occupational Health and Safety Act, (Act 85 of 1993). A health and safety representative shall not incur any civil liability by reason of the fact only that he failed to do anything which he may do or is required to do in terms of the Act.

f) Risk Assessor

The Risk Assessor shall facilitate the risk assessment process of the Contractor or Subcontractor. The Risk Assessor shall be responsible for the compilation and implementation of a management plan towards the continuous mitigation of identified risks to as low as is reasonable practicable.

2.4.3 Supervisors, Inspectors and Issuers

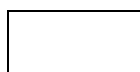
This section covers the duties, responsibilities and liabilities of the following Supervisors, Inspectors and Issuers likely to be found on the Works:

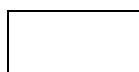
a) Batch Plant Supervisor

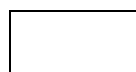
The Batch Plant Supervisor shall be required to ensure compliance with regulation 18 of the Construction Regulations, 2003. In addition, he shall fulfill the following duties and responsibilities:

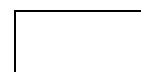
- Manage the day to day operation of a batch plant,
- Be responsible for the maintenance of the batch plant,
- Be able to identify developing defects and hazardous situations,
- Act as the Occupational Health and Safety Representative at the batch plant, and
- Take responsibility for the safety of the personnel at the batch Plant.

The Batch Plant Supervisor will have the authority to stop operation of the plant should any hazardous situation require it.


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b) Construction Supervisor

The Construction Supervisor shall be responsible for supervising the construction work inclusive of the implementation and maintenance of safe work practices.

c) Construction Vehicle & Mobile Plant Inspector

The Construction Vehicle and Mobile Plant Inspector will ensure the safety of all construction vehicles and plant in such a manner to ensure compliance with regulation 21 of the Construction Regulations, 2003. The inspector will also be responsible for the regular inspection of all vehicles and plant and the recording of his findings. The Contractor shall ensure that proof of such is available on site for auditing purposes.

d) Demolition Work Supervisor

The Demolition Work Supervisor will supervise and control all demolition work on the Works in such a manner to ensure compliance with regulation 12 of the Construction Regulations, 2003. The supervisor will be responsible for all administration related to the demolition works. The Contractor shall ensure that proof of such is available on site for auditing purposes.

e) Electrical Temporary Installation Inspector

The Electrical Temporary Installation Inspector will control all temporary electrical installations on the Works to ensure compliance with regulation 22 of the Construction Regulations, 2003, the Electrical Installations Regulations, 1992 and SANS 0142. The Contractor shall ensure that proof of such is available on site for auditing purposes.

f) Excavation Work Supervisor

The Excavation Work Supervisor will supervise all excavation work on the Works in such a manner to ensure compliance with regulation 11 of the Construction Regulations, 2003 and shall in particular ensure that every excavation is inspected:

- On a daily basis before each shift,
- After every blasting operation,
- After an unexpected fall of ground,
- After substantial damage to supports, and
- After rains.

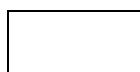
The Contractor shall ensure that proof of such is available on site for auditing purposes.

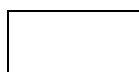
g) Explosive Power Tools Issuer

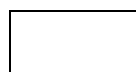
The Explosives Power Tools issuer will control the issuing and collection of explosive tools, cartridges and nails or studs to ensure compliance with regulation 19 of the Construction Regulations, 2003. The Contractor shall ensure that proof of such is available on site for auditing purposes.

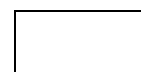
h) Fire Extinguisher Inspector

The Fire Extinguisher Inspector will be responsible for the operation and inspection of all firefighting equipment on the Works to ensure compliance with regulation 27 of the Construction Regulations, 2003. The Contractor shall ensure that proof of such is available on site for auditing purposes.


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i) Formwork and Support Work Supervisor

The Formwork and Support Work Supervisor will supervise all formwork and support work operations and will see to it that formwork and support work erectors, operators and inspectors are competent to carry out their work Works to ensure compliance with regulation 10 of the Construction Regulations, 2003. The Contractor shall ensure that proof of such is available on site for auditing purposes.

j) Ladder Inspector

The Ladder Inspector will be responsible for the regular inspection and recording of his/her findings of all ladders on the Works and to ensure compliance with regulation 13 of the General Safety Regulations. The Contractor shall ensure that proof of such is available on site for auditing purposes.

k) Material Hoist Inspector

The Material Hoist Inspector will be responsible for the daily inspection of material hoists or similar machinery and to ensure Works to ensure compliance with regulation 17 of the Construction Regulations, 2003. The inspector must have experience pertaining to the erection and maintenance of all hoists on the Works. The inspector must be able to determine the serviceability of the entire material hoist including guides, ropes and their connections, drums, sheaves or pulleys and all safety devices. The Contractor shall ensure that proof of such is available on site for auditing purposes..

l) Scaffolding Supervisor

The Scaffold Supervisor will be required to supervise all scaffolding work operations carried out on the Works and to ensure compliance with regulation 14 of the Construction Regulations, 2003 as well as ensure compliance with applicable SANS 085 specifications. The Contractor shall ensure that proof of such is available on site for auditing purposes.

m) Stacking Supervisor

The Stacking Supervisor shall supervise the stacking and storage of all articles on site and shall be responsible to ensure compliance with regulation 26 of the Construction Regulations, 2003.

n) Suspended Platform Supervisor

The Suspended Platform Supervisor will supervise all suspended platform work operations carried out on the Works and to ensure compliance with regulation 15 of the Construction Regulations, 2003. The supervisor will also see to it that all suspended platform erectors, operators and inspectors are competent to carry out their work. The Contractor shall ensure that proof of such is available on site for auditing purposes.

C3.6.1.3**GENERAL REQUIREMENTS OF HEALTH AND SAFETY PLAN****3.1****General**

It will be expected from the Contractor to include in his safety plan method statements on how to accomplish the requirements relating to the Construction Regulations, 2003 and related incorporated standards and regulations.

Contractors should describe how their safety management systems will work and what control procedures they plan on using to ensure safety on the construction site

 Contractor

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The following generic aspects should be covered in their safety plan

- What administrative procedures the Contractor envisages to use in the implementation and maintenance of the safety plan with reference to the construction site
- How continuous assessment of the safety plan will be assessed and implemented with respect to construction site
- What control systems the Contractor envisages to implement on site to support his safety program
- How the Contractor will ensure that he adheres to the construction regulations in respect of competent persons for appointments
- What external resources the Contractor envisages on using to ensure successful implementation and sustainability of the safety plan
- What training to employees the Contractor envisages and how he would go about to execute it
- The Contractor should indicate which competent persons he plans on employing

During the tendering phase it will be expected from the tenderer to briefly explain how the abovementioned will be accomplished.

Once a successful tenderer has been appointed, the Contractor shall supply a detailed Health and Safety Plan for review by the Employer, prior to site mobilization, to ensure compliance with the Construction Regulations, 2003. Mobilization shall be dependent upon the acceptance of the Contractor's Health and Safety Management Plan by the Employer. The Contractor's Health and Safety Plan should include, but not be limited to, those sections indicated in Section 3.2 of this specification.

3.2

Outline of Health and Safety Plan

The Contractor's Health and Safety Plan prepared in accordance with this specification shall consist of at least the following sections and sub-sections:

1. Aim and Scope of Plan,
2. Risk Assessment,
 - a. Alternative Forms of Risk Assessment,
 - b. Methodology of Risk Assessment,
 - c. Elements of Risk Assessment,
 - i. Scope of assessment,
 - ii. Risks Identified,
 - iii. Risk Analysis,
 - iv. Risk Evaluation,
 - v. Risk Treatment,
 - vi. Monitoring and reviewing,
3. Resources,
 - a. Health and Safety Staffing Organogram,

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- b. Supervisors, Inspectors and Issuers,
 - c. Employees,
 - d. Subcontractors inclusive of their scope of work and their core resources,
 - e. Training,
 - f. Plant,
 - g. Vehicles,
 - h. Equipment
- 4. Materials,
 - a. Temporary Materials
 - b. Permanent Materials
- 5. Categories of Work
- 6. Implementation of Health and Safety Plan,
 - a. Administrative systems,
 - b. Training,
 - c. Reporting,
 - d. Monitoring,
 - e. Inspections,
- 7. Auditing,
 - a. Internal audits,
 - b. Follow-up audits,
- 8. Financial Aspects,
- 9. Emergency procedures and response

C3.6.1.4

RISK ASSESSMENT

4.1 General

This section of the specification provides guidelines for the Contractor in preparation of risk assessments in order to ensure compliance with Regulation 7 of the Construction Regulations, 2003. This section highlights the principles related to the preparation of suitable and sufficient risk assessments. Contractor Staff intending to prepare risk assessments should be trained and suitably experienced in the application envisaged.

A suitable and sufficient risk assessment is an assessment which:

- Accounts for risks that are likely to arise during the construction of the Works,
- Enables the development and implementation of systems to manage the risks,
- Remains valid for a reasonable period of time,

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- Provides a basis for training of employees, and
- Improves working procedures and introduce long term controls.

The requirements of the Construction Regulations will not be satisfied by a single risk assessment exercise that holds good for all time. The risk assessment process on the Works is an ongoing process.

The objectives of risk assessments are to:

- Identify the risks that are mostly in need of reduction,
- Identify the various options for achieving such reduction,
- Identify the risks that require careful ongoing management, and
- Identify the nature of the required ongoing attention.

4.2 Forms of Risk Assessment

In order to ensure compliance with the Construction Regulations, the Contractor will be required to carry out the following three forms of risk assessment:

4.2.1 *Baseline or datum risk assessments*

The Contractor will be required carry out a risk assessment before the commencement of construction activities on the Works. This “baseline” or “datum” risk assessment will form part of the Contractor’s Health and Safety Plan. The risks and hazards to which persons, plant, vehicles and facilities may be exposed during the construction of the Works should be identified and evaluated. Measures to reduce or control these risks or hazards should be defined during this assessment. The effectiveness of the measures defined and the baseline risk assessment prepared shall be monitored and reviewed from time to time to ensure that it remains relevant and accurate.

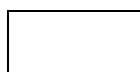
4.2.2 *Issue based risk assessments*

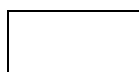
The Contractor will be required to carry out separate risk assessments during construction of the Works when methods and procedures are varied, for example when:

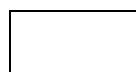
- Designs are amended,
- New machines are introduced,
- Plant is periodically cleaned and maintained,
- Plant is started-up or shut-down,
- Systems of work change or operations alter,
- Incidents or near-misses occur, or
- Technological developments invalidate prior risk assessments.

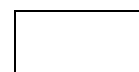
4.2.3 *Continuous risk assessments*

The Occupational Health and Safety Act specifically requires that employers shall provide and maintain working environments that are safe and without risk to health. The general awareness of hazards needs to be raised as work ethic to maintain a safe and risk free environment on an ongoing basis. This is


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achieved by continuous risk assessments, the most important form of risk assessment that takes place as an integral part of day-to-day management. Examples of continuous risk assessments include:

- Regular audits,
- Maintaining general hazard awareness,
- Pre-work risk assessment

4.3 Methodology for the Preparation of Risk Assessments

The Contractor shall in the preparation of his risk assessments, follow the following general principles:

- Employ a team of suitably qualified individuals with appropriately varied and relevant experience in risk assessment,
- The appointed risk assessor shall lead the risk assessment,
- Provide the team with background data, scope of work, potential hazards and underlying causes, and
- Where necessary employ experts for complex risk assessments and aspects of risk assessments that require experiential judgment,
- Institute an ongoing system of identifying aspects of the work that require risk assessment, and
- Conduct risk assessments in workshops of the team or by individual members of the team under guidance of the leader as appropriate to the situation.

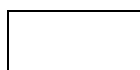
4.4 Elements of a Risk Assessment

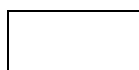
4.4.1 General

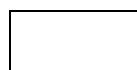
The process of carrying out a risk assessment consists of a number of well-defined steps. These steps improve decision-making by providing a greater understanding of the risks and their impacts. The main steps or elements of the risk assessment process are as follows:

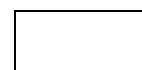
- 1) Consider scope and nature of risks involved, determine purpose and physical and legal bounds of assessment and define risk evaluating criteria,
- 2) Systematically identify risks,
- 3) Analyze risks with regard to causes, likelihood of occurrence and possible consequences against the background of existing controls and its effectiveness,
- 4) Evaluate risks in terms of pre-established criteria to determine need and priority for attention,
- 5) Treat risks through a process of risk elimination, substitution, controlling risk at source, risk mitigation such as training and as far as risk remains, provide personal protective equipment (PPE),
- 6) Monitor and review progress and performance in terms of management system, and
- 7) Communicate and consult.

The following sections 4.4.2 to 4.4.7 deal with items (2) to (7) above. These items form the continuing process of the risk assessment as indicated in Figure 1, below.


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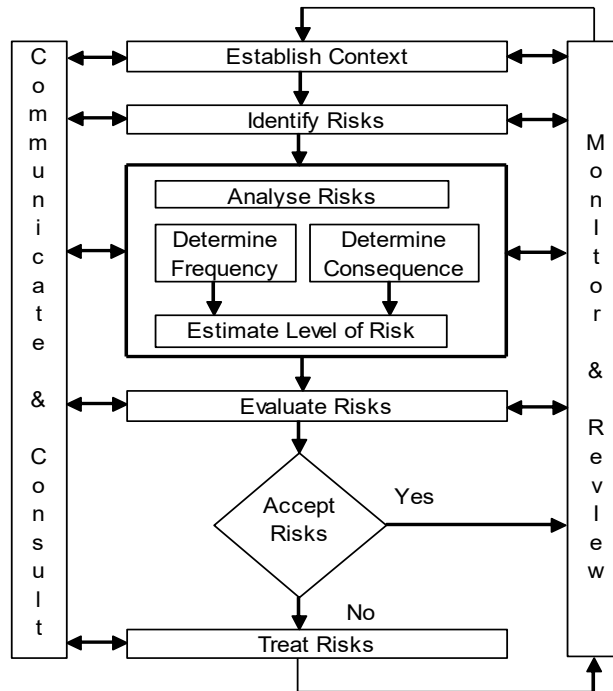


Figure 1: Risk Management Process

The Contractor shall ensure that the risk assessment compiled as part of his Health and Safety Plan contains at least these items.

4.4.2 Risk Identification

The Contractor should regard this step of the risk assessment as the most important. Subsequent analysis and evaluation of risks and the development of risk control measures are wasted if the risks or hazards on the Works are not carefully identified.

The Contractor should bear the following principles in mind when identifying the risks:

- i) Systematically address all risks or hazards on the Works,
- ii) Review all aspects of the work, but consider only those that have a potential to cause harm,
- iii) Rank the risks identified in order of importance and then use appropriately advanced techniques to deal with major risks,
- iv) Deal mainly with major risks and don't obscure these with unimportant information, especially minor risks,
- v) Address what actually happens in the workplace during the work activity
- vi) Consider all persons that may be affected,
- vii) Highlight those groups and individuals who may particularly be at risk, and
- viii) Review the adequacy and effectiveness of existing safety controls and measures

4.4.3 Risk Analysis

In this step, the Contractor will be required to analyze the risks identified by determining each risks frequency and magnitude or severity of the consequence of the risk or hazard.

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The frequency of occurrence of a hazard may be expressed as the number of times that it may occur in a year, decade, lifetime, century, or longer period, according to comparative human experience. The magnitude of the likely consequence of a hazard may be expressed in terms of the degree of incapacitation, number of people or costs involved. The frequency of occurrence of a hazard and the magnitude of its consequence may be compounded as the risk that it poses as shown in the “risk matrix” in Figure 2 below.

Frequency of Occurrence of Hazard	Severity of Consequences of Potential Hazard					
	1 Medically treatable injury	1 Compensable injury	10 Compensable injuries	1 Permanently disabling injury	1 Fatality	10 Fatalities
Frequent; 1 or more occurrences per year	Medium	High	Very high	Severe	Severe	Severe
Several times during a career; 0.1 occurrences per year	Medium-low	Medium	High	Very high	Severe	Severe
Unlikely, but possible during a career; 0.01 occurrences per year	Low	Medium-low	Medium	High	Very high	Severe
Very unlikely during a career; 0.001 occurrences per year	Low	Low	Medium-low	Medium	High	Very high
Barely credible; 0.0001 occurrences per year	Low	Low	Low	Medium-low	Medium	High

Figure 2: Compounded Risk Matrix

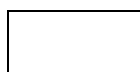
The columns in the table represent the likely consequence of the hazard and the rows, the frequency of occurrence. The scales for both quantities represent consistent progressions, albe they qualitative. The risks evidently range from low to severe. Note that diagonals in the matrix represent the risks of the identified hazards, taking the effectiveness of controls into consideration.

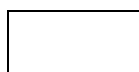
The table represents a typical risk matrix that need not necessarily be adopted by the Contractor. The Contractor may use an alternative risk matrix provided that it is approved as part of his Health and Safety Plan.

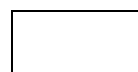
4.4.4 Risk Evaluation

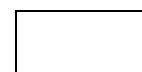
In this step the Contractor will be required to compare the assessed risk with similar risks previously experienced for the purpose of deciding how to treat the risk. A useful systematic approach for this purpose is as follows:

- If the assessed risk exceeds similar risks that have occurred in the past and that are considered to be unacceptable, the assessed risk would require treatment depending upon its magnitude as discussed in Section 4.4.5, or
- If the assessed risk exceeds similar historical risks that are acceptable, treatment of the assessed risk will depend on the extent by which it exceeds the historical risks, or
- If the assessed risk is less than historical risks that are unacceptable, treatment of the assessed risk will depend on the extent by which it is less than the historical risks, or
- If the assessed risk is less than historical risks that are acceptable, the assessed risk would also be acceptable and would not require any treatment.


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4.4.5 Risk Treatment

In this step, the Contractor will select and implement appropriate measures for dealing with risk. Typically measures comprise the following:

- Elimination by changing designs, procedures, management methods, etc, applicable to high frequency–high consequence risks, or
- Reduction by changing designs, procedures, management methods, etc, applicable to high frequency–high consequence risks, or
- Minimization by changing designs, procedures, management methods, etc, applicable to high frequency–low consequence risks, or
- Transfer or share whole or part of the risk to another party by insurance, contractual arrangements or organizational structures, applicable to low frequency–high consequence risks, or
- Control to ensure that risks do not increase, applicable to low frequency–high consequence risks, or
- Retention together with provision of monitoring and personal protective equipment, applicable to low frequency–low consequence residual risks after reduction, or
- Acceptance without particular action other than provision of personal protective equipment, applicable to low frequency–low consequence risks.

The following principles enable the optimum treatment to be determined:

- Avoid risks altogether if possible by using different approaches, substances or methods of work,
- Combat risks at source rather than by adopting secondary measures,
- Adapt work to the individual rather than the individual to the work, that is, in the design consider the people and their attributes that will operate the system
- Take advantage of technological and technical progress,
- Risk prevention measures must be part of a coherent policy and approach to safety management that involves performance measurement, goal setting, feedback and analysis,
- Give preference to measures that protect the whole work force,
- Ensure that those for whom protection is provided understand what they need to do to make sure that the protection works, and
- Ensure that measures to control risks are an accepted part of an active health and safety culture supported by all levels of the organization; single risk reduction initiatives invariably fail.

4.4.6 Reporting and Recording

The Contractor shall ensure that the risk assessment process is recorded in the form of a report and included in his Health and Safety Plan. The report should be easily accessible to the Contractor's employees, their representatives, to inspectors, the Employer or his Safety Agent and the Engineer. The essential contents of the report should be as follows:

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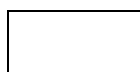
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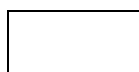
- Objectives and expected outcomes,
- Description of the Works under assessment,
- Summary of context of study
- Composition of risk assessment team, (including qualifications and relevant experience),
- Approach used to systematically identify risks,
- Identified risks (ranked in order of priority),
- Method adopted for assessing frequencies and consequences of risks,
- Consequences (ranked in order of magnitude),
- Identification of individuals and groups who may be affected by major hazards and risk and who may especially be at risk,
- Basis for defining safety standards to be achieved,
- Contractor's resources devoted to risk assessment,
- Actions proposed to reduce unacceptably high risks,
- Review effectiveness of existing safety measures to control risks, and
- Implementation programme of selected treatments (including controls to manage unacceptably high risks).

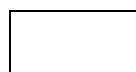
4.4.7 *Monitoring and Review*

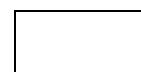
It is necessary to monitor risks, the effectiveness of the risk treatment plan and the strategies and management system set up to control implementation. Control of the risk management program entails the setting of standards, monitoring actual performance, comparing the performance with the standards and correcting any deviations from the standard. Risks and the effectiveness of the control measures need to be monitored to ensure changing circumstances do not alter risk priorities. Few risks remain static.

Ongoing review is essential to ensure that the management plan remains relevant. Factors that affect the likelihood and consequences of an outcome may change, as may factors that affect the suitability or cost of the various treatment options. If an accident occurs, or if more is learnt about the hazards in the workplace, the risk assessment may need to be reviewed or modified. Hazards may be observed that have not been anticipated or previously identified and which may require appropriate measures to be taken. After an accident has occurred, it is important to determine whether it was predicted, whether preventive measures were identified, and if so, why they did not work, whether the risk assessment is still suitable and sufficient if it failed to predict the accident, whether to the decision to accept a predicted risk as tolerable is still valid, why the accident occurred and what should be done to prevent similar accidents occurring again. It is therefore necessary to regularly repeat the risk management cycle, the time between reviews being dependent on the nature of the risks and the degree of change likely to take place in the work activity. Review is an integral part of the risk management treatment plan.


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4.4.8 Communication and Consultation

The Contractor will be required to communicate and consult with internal and external stakeholders during each step of the risk assessment process. Stakeholders will include the Employer and his Safety Agent, the Engineer and the Contractor's employees and consultants.

Effective communication will ensure that those responsible for implementing the risk management process and those with a vested interest, understand the basis on which decisions are made and why particular actions are taken. It will also ensure that the perceptions of all those involved are noted and accommodated during the process.

C3.6.1.5 RESOURCES

5.1 General

In this section of his Health and Safety Plan, the Contractor will be required to state how he intends to comply with the requirements of the Occupational Health And Safety Act, 1993 and all its Regulations and related incorporated standards with regards to the resources and facilities intended for use on the temporary and permanent Works.

5.2 Employees

5.2.1 Inspectors, supervisors and Issuers

The Contractor shall provide in his Health and Safety Plan his intended Staffing Organogram for the Works. The organogram should include those inspectors, supervisors and issuers as envisaged in the Construction Regulations, 2003 required for the Works and any additional supervisory staff members as the Contractor (having taken the scope of the Works into account) considers necessary.

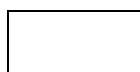
Copies of the supervisory staffs' curriculum vitae or portfolio of evidence and their appointment letters should be appended to the Contractor's Health and Safety Plan.

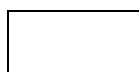
The Contractor's Health and Safety Plan should in addition cover at least the following aspects:

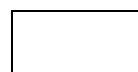
- The number of unskilled, semi-skilled and skilled (including Foreman, Charge hands, Artisans, Operators, Drivers, Clerks, Storeman and Team Leaders) employees he intends employing on the Works,
- The health and safety training to be provided to the Contractor's employees,
- The programme of the health and safety training,
- Systems for the review of the effectiveness of the training provided, and
- Systems to determine further training requirements throughout the construction period.

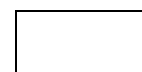
In preparing his Health and Safety Plan, the Contractor shall ensure compliance with Clause PS 22 in Section 4.2 of the Project Specifications.

Pro-forma letters of appointment for the various inspectors, supervisors and issuers as contemplated in the Construction Regulations, 2003 are included in Annexure 1 to this specification for use by the


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Contractor. The Contractor shall ensure that he includes in his Health and Safety Plan the appointment letters for all his inspectors, supervisors and issuers appointed for the Works.

5.2.2 Subcontractors

The Contractor shall with reference to the use of subcontractors on the Works and without limiting his obligations, cover at least the following matters in his Health and Safety Plan:

- The steps intended to ensure that his Subcontractors prepare, implement and maintain Health and Safety Plans,
- How health and safety information will be made available to his Subcontractors when changes are brought about to the design,
- How he intends determining that his Subcontractors are registered and in good standing with the compensation fund or with a licensed compensation insurer prior to the commencement of the Works,
- How he intends determining if his Subcontractors have made provision in their tenders for the cost of health and safety measures during the construction of the Works,
- How he intends satisfying himself on the competencies and resources of Subcontractors he intends appointing, and
- How he intends ensuring that his Subcontractors perform risk assessments prior to commencing their respective portions of the Works.

5.2.3 Competencies

The Contractor shall establish if a person is competent to perform a certain duty or be appointed in a certain capacity by requesting all candidates to supply the required certificates of competency. Where certificates of competencies cannot be delivered, the Contractor shall request a portfolio of evidence from the respective candidates.

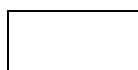
Contractors should do enquiries at the South African Qualifications Authority (SAQUA) relating to the qualifications required for appointment of competent persons.

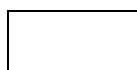
5.3 Plant, Vehicles and Equipment

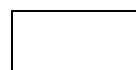
5.3.1 Suspended platform

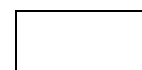
The Contractor shall with reference to Regulation 15: Suspended platforms of the Construction Regulations, 2003, and without limiting his obligations, cover at least the following matters in his Health and Safety Plan:

- How he intends complying with SANS 1808 and SANS 1903,
- What systems he intends using to ensure the safety of all suspended platforms,
- What tests will be performed to establish the safety of suspended platforms,
- How he intends maintaining suspended platforms being used, and
- How he will document the design, testing, maintenance and inspections of the suspended platforms.


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5.3.2 *Boatswains chairs*

The Contractor shall with reference to Regulation 16: Boatswains chairs of the Construction Regulations, 2003, and without limiting his obligations, cover at least the following matters in his Health and Safety Plan:

- Explain what systems he intends using to ensure the safety of all boatswains chairs,
- Explain how he intends maintaining boatswains chairs in use,
- What tests will be performed to establish the safety of boatswains chairs, and
- How he will document the design, testing, maintenance and inspections of the boatswains chairs.

5.3.3 *Material hoists*

The Contractor shall with reference to Regulation 17: Materials Hoist, of the Construction Regulations, 2003, and without limiting his obligations, cover at least the following matters in his Health and Safety Plan:

- How he intends confirming the construction stability of the material hoists,
- What systems he intends using to ensure the safety of all material hoists,
- What tests will be performed to establish the safety of all material hoists,
- How he intends maintaining the material hoists being used, and
- How he will document the design, testing, maintenance and inspections of all material hoists and
- What safety procedures and precautions are envisaged to ensure safe operation of the materials hoists.

5.3.4 *Batch Plants*

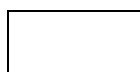
The Contractor shall with reference to Regulation 18: Batch plants of the Construction Regulations, 2003, and without limiting his obligations, cover at least the following matters in his Health and Safety Plan:

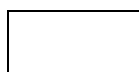
- What systems he intends using to ensure the safety of all batch plants,
- How he intends maintaining the batch plants in use, and
- How he will document the design, testing, maintenance and inspections of batch plants in use.

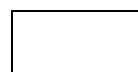
5.3.5 *Explosive powered tools*

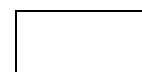
The Contractor shall with reference to Regulation 19: Explosive powered tools, of the Construction Regulations, 2003, and without limiting his obligations, cover at least the following matters in his Health and Safety Plan:

- How he intends controlling the issuing of explosive powered tools,
- How he intends implementing safety procedures prior to use of explosive powered tools, and
- What safety measures will be required during the use of explosive powered tools.


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5.3.6 *Cranes*

This section of the specification shall be read in conjunction with the provisions of the Driven Machinery Regulations, 1988.

The Contractor shall with reference to Regulation 20: Cranes, of the Construction Regulations, 2003 and without limiting his obligations, cover at least the following matters in his Health and Safety Plan:

- How will environmental factors be taken into account in respect to the use of cranes,
- What systems he intends using to ensure the safety of all cranes in use,
- How he intends maintaining cranes in use,
- What tests will be performed to establish the safety of all cranes in use,
- What safety procedures and precautions are envisaged to ensure the safe operation of all cranes in use,
- How he will document the design, testing, maintenance and inspections of all cranes in use, and
- The contractor shall proof compliance of the Driven Machinery Regulation, 1988, with reference to the lifting machinery and tackle being used.

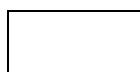
5.3.7 *Construction vehicles and mobile plant*

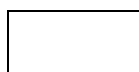
The Contractor shall with reference to Regulation 21: Construction vehicles and mobile plant of the Construction Regulations, 2003, and without limiting his obligations, cover at least the following matters in his Health and Safety Plan:

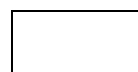
- How he intends ensuring that construction vehicles and mobile plant are:
 - Of acceptable design and construction,
 - Maintained and in good working order,
 - Used according to design specifications, and
 - Are protected from falling into excavations, water or areas lower than the working surfaces,
- How he intends ensuring that workers are trained, authorised and physically fit to operate construction vehicles and mobile plant,
- What traffic arrangements and safety precautions will be implemented to ensure safe operation of construction vehicles and mobile plant on the Works, and
- How he intends safeguarding employees against construction vehicles and mobile plant moving on the construction site.

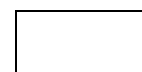
5.3.8 *Electrical Installation and Machinery on construction sites*

This section of the specification shall be read in conjunction with the provisions contained in the Electrical Installation Regulations, 1992.


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The Contractor shall with reference to Regulation 22: Electrical Installation and machinery on construction sites of the Construction Regulations, 2003, and without limiting his obligations, cover at least the following matters in his Health and Safety Plan:

- How he intends safeguarding employees against electrical cables or apparatus under, over or on site, and
- How he will ensure that electrical installations are of adequate strength to withstand working conditions on a construction site.

5.3.9 Ladders

The Contractor shall with reference to Regulation 13A of the General Safety Regulations and without limiting his obligations, cover at least the following matters in his Health and Safety Plan:

- How he intends ensuring that ladders used are safe and constructed of materials approved for its intended use, and
- What precaution will be made to ensure the stability of ladders in use.

C3.6.1.6 MATERIALS

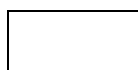
6.1 General

In this section of his Health and Safety Plan, the Contractor will be required to state how he intends to comply with the requirements of the Occupational Health and Safety Act, 1993 and all its regulations and related incorporated standards with regards to the design, supply, storage and erection of materials used for the temporary and permanent Works.

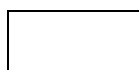
6.2 Fall Protection Equipment

The Contractor shall with reference to Regulation 8: Fall Protection Equipment of the Construction Regulations, 2003, and without limiting his obligations, cover at least the following matters in his Health and Safety Plan:

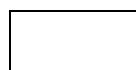
- Compilation of a fall protection plan,
- How the fall protection plan will be implemented and maintained,
- How employees will be screened and declared medically fit to work in areas where fall protection equipment is needed,
- How the safeguarding of persons, plant, vehicles, equipment and facilities on the construction site is contemplated,
- Training of staff working at heights and in the use of fall protection equipment,
- How a continuous assessment of the situation will be executed,
- How fall protection equipment will be inspected for safety, and
- How corrective actions will be implemented
- Emergency plans and procedures for treatment of incidents relating to falls from height.



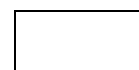
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6.3 Scaffolding

The Contractor shall with reference to Regulation 14: Scaffolding of the Construction Regulations, 2003, and without limiting his obligations, cover at least the following matters in his Health and Safety Plan:

- How compliance with SANS 085 will be ensured,
- How scaffolding in use will be maintained,
- What systems are intended to ensure the safety of scaffolding used, and
- What tests will be performed to establish the safety of scaffolding used
- Training plan for scaffold erectors and inspectors.

6.4 Use and temporary storage of flammable liquids on construction sites

This section of the specification shall be read in conjunction with the provisions for the use and storage of flammable goods as determined in the General Safety Regulations.

The Contractor shall with reference to Regulation 23: Use and temporary storage of flammable liquids on construction sites of the Construction Regulations, 2003, and without limiting his obligations, cover at least the following matters in his Health and Safety Plan:

- How flammable liquids will be stored to minimize the risk of fire or explosions,
- How the contractor will identify a flammable store
- What safety precautions will be employed if ventilation of the flammable store is not possible,
- How access to flammable stores will be controlled,
- How empty vessels used for the storage of flammable liquids will be disposed of,
- What quantity of flammable liquids will be stored on the construction site,
- What systems are intended to ensure the safe storage of flammable liquids, and
- What retaining methods will be used to prevent the spreading of any spillage.

6.5 Stacking and storage

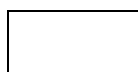
This section of the specification shall be read in conjunction with the provisions for the stacking of articles contained in the General Safety Regulations.

The Contractor shall with reference to Regulation 26: Stacking and storage on construction sites of the Construction Regulations, 2003, and without limiting his obligations, cover at least the following matters in his Health and Safety Plan:

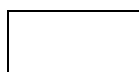
- Who will supervise the stacking and storage of materials on site, and
- What systems are intended to ensure the safe stacking and storage of materials on the site

6.6 Personnel Safety Equipment and Facilities

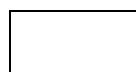
The Contractor shall comply with Section 2 of the General Safety Regulations, and shall in particular provide all necessary personnel protective equipment for his personnel for the duration of the construction



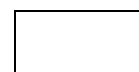
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period. To this end the Contractor shall without limiting his obligations indicate in his Health and Safety Plan:

- Identify training requirements in the Contractors Training plan in the use and maintenance of personal protective equipment,
- The type of personnel safety equipment he will provide,
- How he intends issuing it to his employees, and
- How he will maintain the personnel safety equipment issued.

6.7 First Aid, Emergency Equipment and Procedures

The Contractor shall comply with Section 3 of the General Safety Regulations regarding first aid, emergency equipment and procedures.

C3.6.1.7 CATEGORIES OF WORK

In this section of his Health and Safety Plan, the Contractor will be required to state how he intends to comply with the requirements of the Occupational Health and Safety Act, 1993 and all its regulations and related incorporated standards with regards to the execution of the following categories of work.

7.1 General

The Contractor shall, without limiting his obligations, cover at least the following matters in his Health and Safety Plan under this category of work:

7.1.1 Construction welfare facilities

Contractors will be required to adhere to Regulation 28: Construction welfare facilities of the Construction Regulations, 2003.

This regulation must be read in conjunction with the provisions of the Facilities Regulations, 1990 (as amended) and SANS 0400.

The Contractor must discuss the following in detail in his safety plan:

- How will the Contractor establish the amount of facilities required for employees to shower, change, eat and attend to sanitary needs
- What measures will the employer take to house employees on site who lives far from their residences or for the provision of transport

7.1.2 Environmental regulations for workplaces

The Contractor shall comply with the Environmental Regulations for Workplaces, 1987, and shall address the following aspects as described in the regulations in his Health and Safety plan:

- Thermal requirements,
- Lighting,
- Windows,
- Ventilation,

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- Housekeeping,
- Noise and hearing conservation,
- Precautions against flooding, and
- Fire precautions and means of egress.

7.1.3 *Housekeeping on construction sites*

Contractors will be required to adhere to Construction Regulation 25: Housekeeping on construction sites, of the Construction Regulations, 2003.

This regulation must be read in conjunction with the provisions of the Environmental Regulations for Workplaces, 1987 (as amended).

The Contractor must discuss the following in detail in his safety plan:

- How will contractors ensure the neatness of construction sites
- What measures does the Contractor envisage to
 - Store and/or stack materials,
 - Remove debris from site,
 - Prevent unauthorized entrance to the site
 - Protect employees or passers-by from falling objects

7.1.4 *Fire precaution on construction sites*

Contractors will be required to adhere to Construction Regulation 27: Fire precautions on construction sites, of the Construction Regulations, 2003.

This regulation must be read in conjunction with the provisions of the Environmental Regulations for Workplaces, 1987 (as amended).

The Contractor must discuss the following in detail in his safety plan:

- How the Contractor will minimize the risk of fire on the site
- How the Contractor will identify potential fire hazards
- What prohibitions the Contractor will implement to manage risk areas
- How many employees the Contractor will train in fire fighting
- What organization the Contractor envisage to combat fires on sites
- What precautions and procedures will be followed to evacuate employees in the case of a fire

7.1.5 *Water Environments*

The Contractor will be required to adhere to Construction Regulation 24: Water Environments, of the Construction Regulations, 2003.

The Contractor must discuss the following in detail in his safety plan:

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- What precautions will the Contractor take to identify dangers where employees may fall into water
- What safety procedures and equipment will the Contractor implement to safeguard employees working at water environments

7.1.6 Structures

The Contractor will be required to adhere to Construction Regulation 9: Structures, of the Construction Regulations, 2003.

The Contractor must discuss the following in detail in his safety plan:

- Explain what controls, test or precautions will be made to prevent structures from collapsing during construction,
- The Contractor shall indicate what steps will be taken and implemented to ensure that structures or parts thereof will not be loaded in such a manner that it may collapse, and
- What procedures does the Contractor envisage to implement in order to obtain all relevant data on structures before commencement of construction work.

7.1.7 Watching, barricading and lighting

The Contractor will be required to adhere to regulations 11.3.(i) and 11.3.(l) of the Construction Regulations, 2003.

The Contractor must discuss the following in detail in his safety plan in respect of any excavation or other dangerous activity adjacent to public roads and thoroughfares:

- Type of barrier or fencing to be used,
- Type and spacing of warning lights and warning signs, and
- Control systems and personnel he intends employing to ensure that the above items are maintained.

7.2 Site Clearance

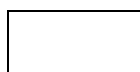
The Contractor shall, without limiting his obligations, cover at least the following matters in his Health and Safety Plan under this category of work:

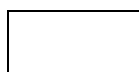
7.2.1 Demolition work

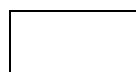
Contractors will be required to adhere to Construction Regulation 12: Demolition work, of the Construction Regulations, 2003.

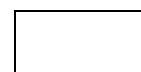
The Contractor shall discuss the following in detail in his safety plan:

- Briefly explain how he will safeguard people and property during and after demolition works
- Briefly explain how he will protect staff from dangerous situations
- Discuss the methods proposed to safeguard the public and property against harm during demolition works


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- Discuss what type of equipment he envisage to use during demolition work
- How will the Contractor ensure the safety of equipment used during demolition work
- What steps will the Contractor deem necessary to take where hazardous materials is encountered

7.3 Earthworks

The Contractor shall, without limiting his obligations, cover at least the following matters in his Health and Safety Plan under this category of work:

7.3.1 Excavation work

Contractors will be required to adhere to Construction Regulation 11: Excavation work, of the Construction Regulations, 2003.

The Contractor must discuss the following in detail in his safety plan:

- How will the Contractor establish the stability of ground prior to excavations,
- What steps will the Contractor follow to ensure that bolstering, shoring and bracing is sufficient to ensure the safety of the excavation, and
- What steps will the Contractor follow to ensure the equipment used to safeguard an excavation is sufficient and safe.

7.4 Concrete

The Contractor shall, without limiting his obligations, cover at least the following matters in his Health and Safety Plan under this category of work:

7.4.1 Formwork and support work

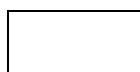
The Contractor shall with reference to Regulation 10: Formwork and support work, of the Construction Regulations, 2003, and without limiting his obligations, cover at least the following matters in his Health and Safety Plan:

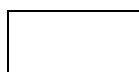
- How the design of formwork and support work will be carried out,
- How the erection of formwork and support work will be managed,
- How the continuous assessment of the safety of formwork will be done,
- How the loading of formwork and support work will be managed or limited, and
- How he intends keeping records of the above.

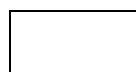
7.5 Pipes

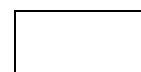
The Contractor shall comply with Section 9 of the General Safety Regulations, with regards to the welding, flame cutting, grinding, soldering or similar operations associated with pipework.

The Contractor shall comply with Section 5 of the General Safety Regulations, with regards to work in confined spaces.


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C3.6.1.8**IMPLEMENTATION OF CONTRACTOR'S HEALTH AND SAFETY PLAN****8.1 General**

The Contractor shall describe in his Health and Safety Plan how he intends implementing his plan.

The Contractor shall indicate the methods he intends using to ensure accurate record keeping of all critical elements identified in his risk assessment and covered in his Health and Safety Plan.

The Contractor shall indicate how internal audits will be carried out, how shortcomings will be addressed, how he intends to review the safety plans, how he would train staff and how he would implement the findings and recommendations of internal audits or inputs of employees.

8.2 Administrative Systems

The Contractor shall comply with Section 9 of the General Administrative Regulations, 1996. The Contractor's administrative system shall without limiting his obligations, cover the following:

- Up keep of a safety file on site,
- Maintenance of his Health and Safety plan,
- Procedures to follow for the appointment of competent persons,
- Application for permits,
- Procedures to follow for notifications,
- Injury on duty [IOD] administration,
- Recording of minutes of safety meetings,
- Recording of checklists,
- Safe keeping of checklists, and
- Internal audits.

The Contractor shall in particular ensure that at least one copy of the Occupational Health and Safety Act, 1993 and its Regulations is available on the for every 20 employees employed.

8.3 Reporting Systems

The Contractor shall comply with Section 9 of the General Administrative Regulations, 1996 and shall in particular (in accordance with section 12) furnish an inspector with information relating to health and safety on the construction site, when requested to do so.

The Contractor shall notify the Employer of any investigations, complaint or criminal charge which may arise as a consequence of the provision of the Occupational Health and Safety Act, 1993 and its Regulations, pursuant to work performed in terms of this Contract.

8.4 Training

The Contractor shall train all his employees in accordance with the requirements of section 13 of the Occupational Health and Safety Act, 1993. The Contractor shall ensure that every employee is informed of the following:

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- The hazards of any work he has to perform or plant machinery or equipment he is permitted to use, and
- The precautionary measures which should be taken regarding the above.

The Contractor shall, without limiting his obligations, indicate in his Health and Safety Plan how he intends:

- Identifying the training needs of the personnel he intends employing, and
- Implementing the training identified.

8.5 Inspections and Monitoring

The Contractor shall be required to inspect each workplace prior to works commencing to ensure that all protective equipment is in place and that by entering the workplace no person will be exposed to any hazard which could affect his health or safety. The Contractor shall without limiting his obligations, indicate the following in his Health and Safety Plan:

- The inspection and monitoring procedures he intends employing to determine the safety of workplaces, and
- Who will be responsible for the checking of each workplace at the commencement of each shift.

The Contractor shall include in his Health and safety Plan all the checklists he intends using during the inspection and monitoring of the implementation of his Health and Safety Plan.

The Contractor can expect inspections of the works by any of the following parties:

- The Employer or his Safety Agent, or
- The designated officer serving in the Department of Manpower and appointed by the Minister as chief inspector or his representative.

In addition to site inspections performed by the Employer or his safety agent they shall also do audits and asses the safety situation at the works and investigate incidents. Follow-up inspections will be performed to ensure compliance to recommendations done.

Inspections by the Chief inspector or his representative will be by appointment and the purpose would be to investigate complaints received by the Inspector or to investigate serious incidents.

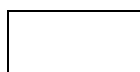
The Chief Inspector or his representative may issue prohibition notices to stop the activities at the works until the situation investigated has been resolved or he may issue an improvement notice whereby the Contractor will have a period to rectify any hazard identified by the inspector.

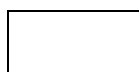
C3.6.1.9 AUDITING

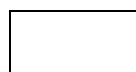
9.1 Internal Audits

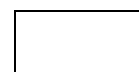
The audits contemplated in regulation 4.(1)(d) of the Construction Regulations,2003 will be carried out by the Employer or his appointed Safety Agent.

The intervals for the audits shall be agreed between the Contractor and the Employer or his Safety Agent during the preparation of the Contractor's Health and Safety Plan, but shall be carried out at least once every month or at such shorter interval that an inspector may require. The Employer or his Safety Agent shall provide at least 7 calendar days notice prior to the conducting of an audit.


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The findings of each audit will be made known to the Contractor and the Employer in a report prepared by the Employer or his Safety Agent and will be submitted to all parties within seven working days of the respective audit being completed. Any shortfalls identified will be documented in the audit report together with the Contractor's proposals to rectify the same. All audit reports will be filed in the Health and Safety File.

A date for a follow up audit will be negotiated with the Contractor to verify the implementation of all actions to rectify shortfalls as identified in the audit report .

The Contractor will ensure that the same arrangement detailed above be implemented with his Contractors to ensure his compliance with the Construction Regulations and contemplated in regulation 5. (3)(c).

The audits described above only constitutes part compliance by the Employer or the Safety Agent with regulation 4.(1)(c) of the Construction Regulations, 2003.

9.2 Audits by Employer or Safety Agent

The Employer or Safety Agent will be entitled to carry out additional audits or follow-up audits, as the case may be, at any time during the construction period provided that:

- i) The audit or follow-up audit are carried out during ordinary working hours, and
- ii) The Employer or Safety Agent gives the Contractor at least 24 hours notice of his intention to carry out such audits.

The Contractor's employees indicated in Section 9.1 will be present during any audit carried out by the Employer or his Safety Agent.

C3.6.1.10 MEASUREMENT AND PAYMENT

10.1 Measurement and Payment

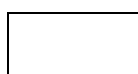
- 10.1.1 The scheduled items for health and safety will be included in the preliminary and general section of the schedule of quantities. Measurement will be in terms of Clause 8.1.2 of SANS 1200 A.
- 10.1.2 The Contractor shall price all items scheduled in this section of the schedule of quantities to enable the Employer to comply with clause 4.1.(h) of the Construction Regulations, 2003. Failure by the Contractor to price these items will force the Employer to reject the Contractor's tender in terms of clause 4.(4) of the Construction Regulations, 2003.
- 10.1.3 Payment for the scheduled items will be in terms of clause 8.2 of SANS 1200 A.

10.2 Scheduled Items

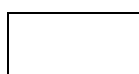
10.2.1 General

The maintenance of safe work practice at all times and in all sections of the execution of the works is embedded in the day to day site activities of all the Contractor's management, staff and workforce on the contract.

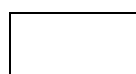
However, the introduction of the Construction Regulations in 2003 requires from the Employer to ensure that the Contractor has made adequate provision for the execution of the works within the specifications of said regulations. The following items have been identified as critical towards ensuring the minimum standards of safe work practice:



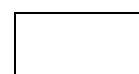
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It must be noted that the lists below are not exhaustive and that many items have been traditionally priced by the Contractor as an integral part of his Preliminary and General items or as part of the overhead costs of other items. The tender document, although not detailed with regards the Construction Regulations, requires that the Contractor ensures adherence to the Occupational Health and Safety Act (Act 85 of 1993) the Construction Regulations, 2003.

10.2.2 Fixed-Charge Items

- a) Compliance with the Occupational Health and Safety Act Unit: Sum
(Act 85 of 1993) and its regulations and with the Employer's
Health and Safety Specification

The fixed charge item shall include but shall not be limited to the following:

- Health and Safety Training
- Personal Protective Clothing and Equipment
- Fences, Signs and Barricades
- Establishment of Safety Administration
- Other Health and Safety Fixed-charge Obligations

10.2.3 Time-related Items

- a) Compliance with the Occupational Health and Safety Act Unit: Sum
(Act 85 of 1993) and its regulations and with the Employer's
Health and Safety Specification

The time related item shall include but shall not be limited to the following:

- The employment cost of all health and safety personnel including consultants, health and safety officers, inspectors, supervisors and issuers required in terms of the Contractor's Health and Safety Plan,
- Updating the Health and Safety Plan as needed,
- Carrying out of periodic own audits and follow-up audits,
- Compiling ongoing risk assessments and risk assessment reports as required by the Works,
- Convening of regular safety meetings with the Safety Representatives,
- Accompanying and supporting the Employer or his Safety Agent during ad hoc audits,
- Compilation of monthly safety reports and statistics for the Employer or his Safety Agent,
- Implementation and maintenance of Training
- Maintenance of personal protective clothing and equipment
- Maintenance of fences, signs and barricades
- Implementation and maintenance of safety administration
- Other Health and Safety Time-related Obligations

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Employer

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GREATER LETABA MUNICIPALITY



PROJECT NO: GLM009/2026

CONSTRUCTION OF BOSHAKGE BRIDGE

C4.1 SITE INFORMATION

C4.1 : SITE INFORMATION

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Witness 1

C4.1 SITE INFORMATION

The Greater Letaba Municipality is located in the Limpopo Province within the Mopani District Municipality. It is one of the five (5) Local Municipalities falling within the Mopani District. The Municipality covers approximately 1 891 km² in area with an estimated population of 218 030 people (Community Survey 2016). The area consists of 3 clusters that have been demarcated into 30 wards. The Municipality is responsible for the Implementation of Road Infrastructure Projects within the area.

PROJECT LOCATION

The project is located on Molototsi River in Boshakge Village, approximately 45km North East of Tzaneen and 20km North East of Modjadjiskloof within the jurisdictions of Greater Letaba Municipality in Limpopo Province. According to the published 1 : 250 000 Tzaneen geological map and the 1 :200000 of South Africa Geological Map, the area is sitting on the intrusive leucocratic biotite granite rocks (Vlg).

The proposed bridge coordinates are: Latitude: 23°35'58.34"S

Longitude: 30°19'45.10"E



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TENDER DRAWINGS

Tender Drawings have been attached and below is the drawings list:

ITEM	DESIGNATION	DRAWING NO
1.	DRAWING COVER	
2.	LOCALITY MAP	MQI-GLM-CBAB-LM-01
3.	BRIDGE LAYOUT PLAN	MQI-GLM-CBAB-LP-01
4.	REINFORCEMENT STEEL DETAILS	MQI-GLM-CBAB-RSD-01
5.	WINGWALL DETAILS	MQI-GLM-CBAB-WD-01
6.	GABION DETAILS	MQI-GLM-CBAB-GD-01
7.	NAMEBOARD	MQI-GLM-CBAB-NM-01

Contractor

Witness 1

Employer

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