



**WINNIE MADIKIZELA-MANDELA LOCAL MUNICIPALITY**  
**CONSTRUCTION OF THALENI ACCESS ROAD AND BRIDGES PHASE 1 :**  
**THALENI BRIDGE**

**CONTRACT NUMBER: WMM LM 00021 T BR**

<b>TENDERER</b>	
<b>CLOSING DATE</b>	05 FEBRUARY 2024
<b>CLOSING TIME</b>	<b>12 NOON</b>

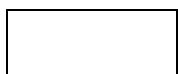
**PREPARED BY:**



**PREPARED FOR:**



Ziinzame Consulting Engineers (Pty) Ltd No. 25 Falcon Street Southernwood <b>MTHATHA</b> 5099	Winnie Madikizela-Mandela Local Municipality 51 Winnie Madikizela Street <b>BIZANA</b> 4800
<b>CONTACT PERSON</b>	<b>CONTACT PERSON</b>
Ms S Booij	Mr V Nontanda
Tel No.: 047 531 0269	Tel No.: 039 251 0230



*Contractor*



*Witness 1*



*Witness 2*



*Employer*



*Witness 1*



*Witness 2*

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

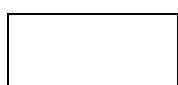
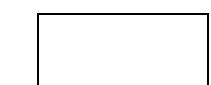
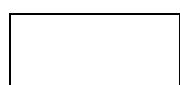
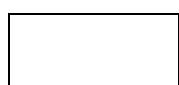
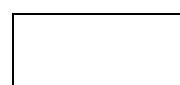
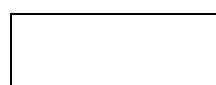


# TENDER DOCUMENT CHECKLIST

**Tenderers must complete** this document checklist to ensure that all information is completed in the Tender Document.

Page	Ref	Description	Included (Y/N)
		<b>All pages requiring signatures signed by the Tenderer</b>	
	<b>MBD1</b>	<b>Correct Tender Offer Amount carried forward to Form MBD1</b>	
	<b>C1.1</b>	<b>Form of Offer duly completed</b>	
	<b>C1.2</b>	<b>Contract Data: Part 2 – Data provided by Contractor</b>	
	<b>C2.2</b>	<b>Bill of Quantities</b>	
		Sign and date Final Summary	
		Completed in BLACK INK only	
		Corrections crossed out and initialled	
	<b>T2.1</b>	<b>All Returnable Documents and Schedules submitted</b>	
	<b>1A.</b>	Joint Venture Disclosure Form (where applicable).	
	<b>1B.</b>	Compulsory Enterprise Questionnaire.	
	<b>1C.</b>	Record of Addenda to Tender Documents.	
	<b>1D.</b>	Proposed Amendments and Qualifications.	
	<b>1E.</b>	Schedule of Subcontractors.	
	<b>1F.</b>	Schedule of Plant and Equipment.	
	<b>1G.</b>	Schedule of Tenderer's Experience (not for Winnie Madikizela-Mandela Local Municipality)	
	<b>1H.</b>	Schedule of Tenderer's Experience (for Winnie Madikizela-Mandela Local Municipality)	
	<b>1I.</b>	Contractors key Personnel and detailed CV's	
	<b>1J.</b>	Health and Safety plan	
	<b>1K.</b>	Detailed Preliminary Programme	
	<b>1L.</b>	Schedule of estimated monthly expenditure	
	<b>1M.</b>	Detailed Methodology	
	<b>T2.2</b>	<b>Other documents required only for tender evaluation purposes</b>	
	<b>2A.</b>	Certificate of Contractor Registration issued by the Construction Industry Development Board.	
	<b>2B.</b>	Tax Clearance Certificate (MBD 2).	
	<b>2C.</b>	AUDITED FINANCIAL STATEMENTS - WHERE THE TENDERED AMOUNT INCLUSIVE OF VAT EXCEEDS R10 MILLION	
	<b>2D.</b>	Certificate of Tenderer's visit to the site.	

	<b>2E.</b>	Certificate of Authority for Signatory	
	<b>2F.</b>	Alterations by Tenderer.	
	<b>2G.</b>	Surety and Bank Details.	
	<b>2H.</b>	Company Composition.	
	<b>2I.</b>	Declaration of Interests ((MBD 4) .	
	<b>2J.</b>	PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS <b>2022 – MBD 6.1</b>	
	<b>2K.</b>	DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS - MBD 6.2	
	<b>2L.</b>	Preference points claim form in terms of Local content of products	
	<b>2M</b>	DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES (MBD 8)	
	<b>2N.</b>	Certificate of independent bid determination (MBD 9)	
	<b>2O</b>	Company profile	
	<b>2P.</b>	Certified copies of identity documents for directors	
	<b>2Q.</b>	Specific goals	
	<b>2R.</b>	Current commitments schedule	
	<b>2S.</b>	Proof of good standing with municipal accounts	
	<b>2T.</b>	Method statement	
	<b>2U.</b>	Record of addenda to tender document	
	<b>2V.</b>	Declaration for procurement above R 10 million	
	<b>2W.</b>	Central Supplier Database Registration	
	<b>2X.</b>	Bank rating	
	<b>2Y.</b>	Joint venture agreement	

# THE TENDER

## T1.1 TENDER NOTICE AND TO INVITATION TENDER



### WINNIE MADIKIZELA MANDELA LOCAL MUNICIPALITY ADVERT

PROJECT NAME	CONTRACT NUMBER	CIDB	BRIEFING	CLOSING DATE
1.Construction of Thaleni Bridge	WMM LM 00021 T BR	6 CE or Higher	N/A	05 February 2024 @12h00

Bid proposals are hereby invited from suitably qualified and accredited service providers who are interested to submit their proposals to tender for the above-mentioned projects for Winnie Madikizela-Mandela Local Municipality.

Bid documents can be downloaded from e-tender portal website. ([www.etenders.gov.za](http://www.etenders.gov.za) )

Bids should score a minimum of 70% in order to be considered for further evaluation.

The bids will be evaluated on the **80/20** preferential points system

Failure to submit the following fully completed document(s) will render the bid null and void:

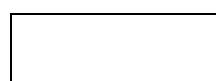
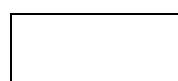
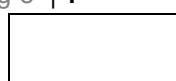
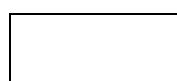
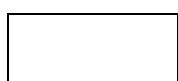
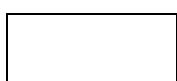
- A copy of Entity Registration Documents, Certified ID Copy(ies) of Director(s) (not older than 3 months),
- Proof of CSD Registration
- SARS Valid PIN Printout
- Bid documents MBD1, MBD4, MBD6.1, MBD 6.2, MBD 6.4, MBD 8 and MBD 9
- Three years Annual Financial Statements including the latest year ended
- A Billing Clearance Certificate or Statement of Municipal Accounts confirming that no undisputed municipal accounts are overdue by more than 30 days and a signed letter by the bidder confirming that the institution and directors do not have outstanding amounts more than 30 days on the day of the tender closing
- Evaluation Criteria: 80= Price, 20= Specific Goals as per the attached MBD 6.1 respectively
- In case of a joint venture, valid Tax Compliance Documents of both partners should be submitted as signed agreement by both parties clearly indicating the lead partner
- The minimum threshold for local content for the above-mentioned project is 100%.

**Advert Date:** 13<sup>th</sup> December 2023

**Closing Date:** All tenders must be emailed to [tenders.scm@mbizana.gov.za](mailto:tenders.scm@mbizana.gov.za) by no later than the date and time stated above after which they will be opened. All tenders must be clearly marked the Name of the project and Reference number indicated above. Failure to do so will lead to your tender not being considered.

No late, hand delivered, incomplete or facsimile bids will be accepted for consideration. The only or lowest bid received shall not necessarily be accepted. Value for money will be the key determinant. Winnie Madikizela-Mandela Local Municipality reserves the right to accept part or full bid. For technical enquiries, please contact Mr. V. Nontanda at (066 260 9162), email: [nontandav@mbizana.gov.za](mailto:nontandav@mbizana.gov.za) during working hours. For Supply Chain Management related enquiries, please contact Mr. Z. Khala at (079) 886 0942, email: [khalaz@mbizana.gov.za](mailto:khalaz@mbizana.gov.za) during working hours

.....  
**Mr. L. Mahlaka**  
**Municipal Manager**



**Letter of Consent**

Name and Domiciliumcitandi of organization

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The Municipal Manager

Winnie Madikizela-Mandela Local Municipality

P.O. Box 12

Bizana

4800

Sir/Madam

Granting of authority to request information from any legal entity relevant to this Bid

I/we acknowledge that the information herein contained shall constitute the basis on which my/our Bid is to be considered. I/we grant approval that any source regarding this Bid may be fully investigated and that all such information shall be of material value to Winnie Madikizela-Mandela Local Municipality and directly relevant to the consideration of my/our Bid.

I/we \_\_\_\_\_ grant my/our consent to such source to provide confidential information.

I/we warrant that all the information herein contained is to the best of my/our knowledge and belief true and correct in all material respects and I/we am /are not aware of any information which, should it become known to the Winnie Madikizela-Mandela Local Municipality, would affect the consideration of my/our Bid in any way. The Winnie Madikizela-Mandela Local Municipality wishes to inform you that all information regarding your personal matters is treated as strictly confidential.

Please tick the appropriate box.

	I/We hereby consent to the above
	I/We hereby withhold consent and fully understand the implications and ramifications of my/our decision and will not hold the Winnie Madikizela-Mandela Local Municipality responsible for not considering my/our Bid.

Signature: .....

Date: .....

Witness: .....

Signature: .....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**Evaluation criteria:**

Pre-qualification criterion 100 Points-

<b>CONSTRUCTION OF THALENI ACCESS ROAD AND BRIDGES PHASE 1 : THALENI BRIDGE</b> <b>PRE- QUALIFICATION FUNCTIONAL ASSESSMENT –POINT SCORING</b>	
<b>DESCRIPTION /CRITERIA</b>	<b>Maximum Allowed</b>
<b>1. Expertise</b>	<b>30 points</b>
Contracts Manager has 5 or more years experience in Road and bridge construction, LIC and a minimum of NQF Level 5 in built environment (attach CV and Qualifications to get points) ID Copy must be certified	10 Points
Site Agent has between 3 to 6 years experience in road and bridge construction (attach CV and Qualifications) ID Copy must be certified	10 Points
Health and Safety Officer has between 1 to 3 years' experience in a role as Safety Officer with SAMTRAC Qualification OR Equivalent (attach CV and Qualifications) ID Copy must be Certified	10 Points
<b>2. Experience</b>	<b>30 points</b>
Three (03) Completed similar (road and bridges) projects with a value equal to or greater than <b>R 7 million, 10 points per project</b> (Appointment letter, completion certificates signed by Client and Municipal Agent and Reference Letter issued within 3 months from the date of advert). Unsigned completion letter will not be accepted.	30 Points
<b>3. Methodology &amp; Preliminary programme</b>	<b>5Points</b>
Methodology should clearly state the Site Establishment and Carrying out the works (1 point) , Quality control ( 1 point) Cash Flow (1 point) and the Organogram of the Team Members (2 points)	05 Points
<b>4. Plant</b>	<b>20 Points</b>
The bidder should have access to the following plant :  <ul style="list-style-type: none"> <li>• Excavator : 4 points for owned, 2 points each for hired</li> <li>• 10m3 Tipper truck x2 : 2 points each for owned, 1 point each for hired</li> <li>• Grid roller : 2 points for owned, 2 points for hired</li> <li>• Smooth roller : 2 points for owned; 2 points for hired</li> <li>• Grader: 2 points for owned, 2 points for hired</li> <li>• Water tanker x2 : 2 points each for owned, 1 point each for hired</li> <li>• TLB : 2 points for owned, 2 points for hired</li> </ul> and attach proof of ownership of any of the above mentioned plant. If not owned, the contractor must submit proof of access to the plant in the form of a letter from a plant hire company confirming that they would hire the plant to the contractor on appointment.	20 Points
<b>5. Bank rating</b>	<b>10</b>
The bidder should attach a formal bank rating not more than 3 months old stating their ranking.  (a) A ranking – 10 points (b) B ranking – 8 points (c) C rating – 6 points (d) Below C rating – 0 points	10 Points
<b>Preliminary programme</b>	<b>5 points</b>
• Gantt type or similar with start and end dates, durations, work logic, milestones	05 points
<b>Total for Functionality</b>	<b>100 Points</b>

Bidders should score 70 out of 100 to proceed to second stage. Evaluation criteria will be 80/20.

MBD1

**PART A**  
**INVITATION TO BID**

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF MUNICIPALITY/ MUNICIPAL ENTITY)					
BID NUMBER:	WMM LM .....	CLOSING DATE:	..... 2023	CLOSING TIME:	12H00 noon
DESCRIPTION	MBONGWANA ACCESS ROAD				
THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (MBD7).					

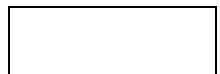
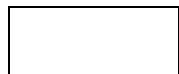
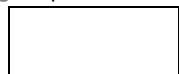
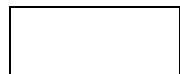
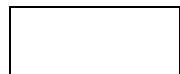
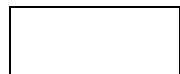
BID RESPONSE DOCUMENTS MAY BE SENT VIA EMAIL TO THE  
EMAIL ADDRESS PROVIDED BELOW

[TENDERS.SCM@MBIZANA.GOV.ZA](mailto:TENDERS.SCM@MBIZANA.GOV.ZA) for tenders above R200 000 inclusive of VAT

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:	
PEOPLE LIVING WITH DISABILITY [TICK APPLICABLE BOX]	<input type="checkbox"/> Yes <input type="checkbox"/> No		MILITARY VETERAN	<input type="checkbox"/> Yes <input type="checkbox"/> No	

[DOCUMENTARY PROOF/ SWORN AFFIDAVIT (FOR PEOPLE LIVING WITH DISABILITIES) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR TARGETED GOALS]

ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER PART B:3]
TOTAL NUMBER OF ITEMS OFFERED		TOTAL BID PRICE	R
SIGNATURE OF BIDDER	.....	DATE	
CAPACITY UNDER WHICH THIS BID IS SIGNED			
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:		TECHNICAL INFORMATION MAY BE DIRECTED TO:	
DEPARTMENT		CONTACT PERSON	
CONTACT PERSON		TELEPHONE NUMBER	
TELEPHONE NUMBER		FACSIMILE NUMBER	
FACSIMILE NUMBER		E-MAIL ADDRESS	
E-MAIL ADDRESS			



**PART B**  
**TERMS AND CONDITIONS FOR BIDDING**

**1. BID SUBMISSION:**

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

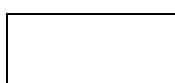
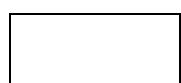
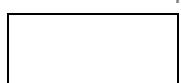
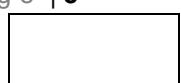
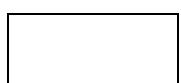
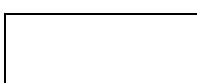
NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE.

SIGNATURE OF BIDDER: .....

CAPACITY UNDER WHICH THIS BID IS SIGNED: .....

DATE: .....

## T1.2 TENDER DATA

The conditions of tender are the Standard Conditions of Tender as contained in Annex F of Board Notice 86 of 2010 in Government Gazette No. 33239 of 28 May 2010, Construction Industry Development Board (CIDB) Standard for Uniformity in Construction Procurement as is available from the CIDB website (see [www.cidb.co.za](http://www.cidb.co.za)).

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

**The following variations, amendments and additions to the Standard Conditions of Tender as set out in the Tender Data below shall apply to this tender:**

Clause number	Tender Data
F.1	<p><b>GENERAL</b></p> <p><b>Actions</b></p> <p><i>Add the following:</i></p> <p>The Employer is the <b>WINNIE MADIKIZELA-MANDELA LOCAL MUNICIPALITY</b>, represented by the Municipal Manager.</p>
F.1.2	<p><b>Tender Documents</b></p> <p><i>Add the following:</i></p> <p>“The following documents form part of this tender:</p> <p><b>VOLUME 1:</b> The General Conditions of Contract for Construction Works (Third Edition) 2015 as published by the South African Institution of Civil Engineering. This publication is available and tenderers must obtain copies at their own cost from the South African Institution of Civil Engineering (SAICE), Private Bag X200, Halfway House 1685, Tel: (011) 805 5947, Fax: (011) 805 5971, e-mail: <a href="mailto:civilinfo@saice.org.za">civilinfo@saice.org.za</a>.</p> <p><b>VOLUME 2:</b> THE “STANDARD SPECIFICATION FOR ROAD AND BRIDGE WORKS FOR STATE ROAD AUTHORITIES” (COLTO 1998). This publication is available and tenderers must obtain copies at their own cost from the South African Institution of Civil Engineering (SAICE), Private Bag X200, Halfway House 1685, Tel: (011) 805 5947, Fax: (011) 805 5971, e-mail: <a href="mailto:civilinfo@saice.org.za">civilinfo@saice.org.za</a>.</p> <p>Volumes 1 and 2 may also be inspected, by appointment, at the offices of the Employer’s Agent during normal office hours.</p>

	<p>The contract documents issued by the Employer comprise:</p> <p><b>VOLUME 3:</b> The Contract Document (this document), in which is bound:</p> <p><b>The Tender</b></p> <p><b>Part T1: Tendering Procedures</b></p> <p>T1.1 Tender notice and invitation to tender</p> <p>T1.2 Tender data</p> <p><b>Part T2: Returnable Documents</b></p> <p>T2.1 List of returnable documents</p> <p>T2.2 Returnable schedules</p> <p><b>The Contract</b></p> <p><b>Part C1: Agreements and contract data</b></p> <p>C1.1 Form of offer and acceptance</p> <p>C1.2 Contract data</p> <p>C1.3 Form of Guarantee</p> <p>C1.4 Occupational Health and Safety Agreement</p> <p>C1.5 Contract and Temporary Employment as Community Liaison Officer</p> <p><b>Part C2: Pricing data</b></p> <p>C2.1 Pricing instructions</p> <p>C2.2 Bills of Quantities</p> <p><b>Part C3: Scope of work</b></p> <p>C3 Scope of work</p> <p><b>Part C4: Site information</b></p> <p>C4 Site information</p> <p>Volume 3 is deemed the "Returnable Documents" which must be returned to the Employer in terms of submitting a tender offer.</p>

F.1.4	<p><b>Communication and employer's agent</b></p> <p><i>Add the following:</i></p> <p>Attention is drawn to the fact that verbal information, given by the Employer's Agent during site visits/clarification meetings or at any other time prior to the award of the Contract, will not be regarded as binding on the Employer. Only information issued formally by the Employer and Employer's Agent in writing to tenderers will be regarded as amending the Tender Documents.</p> <p>The employer's agent is:</p> <p>Firm: Ziinzame Consulting Engineers (Pty) Ltd</p> <p>Address: No. 25 Falcon Street Southernwood Mthatha 5099</p> <p>Tel: (047) 531 0269</p> <p>E-mail: <a href="mailto:sbooi@ziinzame.co.za">sbooi@ziinzame.co.za</a></p> <p>The language for communication is English.</p>
F.1.5	<p><b>The Employer's right to accept or reject any tender offer</b></p>
F.1.5.3	<p><i>Add the following:</i></p> <p>The Employer may reject a tender if, in the opinion of the Employer, the tenderer will be unable to achieve the contract participation goal tendered, in the performance of the contract.</p>
F.1.6.2	<p><b>Competitive negotiation procedure</b></p>
F.1.6.3	<p><i>Add the following to F.1.6.2</i></p> <p>A competitive negotiation procedure will not be followed.</p>
F.1.6.3	<p><b>Proposal procedure using the two-stage system</b></p>
F.2	<p><i>Add the following to F.1.6.3</i></p> <p>A two-stage system will not be followed</p>
F.2	<p><b>TENDER'S OBLIGATION</b></p>
F.2.1	<p><b>Eligibility</b></p>
F.2.1.1	<p><i>Add the following to F.2.1.1:</i></p>
	<p>Only those tenderers who have in their employee 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 tenders.</p> <p>The Tenderer shall, when requested by the Employer to do so, submit the names of all management and supervisory staff that will be employed to supervise the labour-intensive portion of the works together with satisfactory evidence that such members satisfy the eligibility requirements.</p> <p>Only those tenderers who satisfy the following eligibility criteria are eligible to submit tenders:</p> <p><b>Company Experience in road construction projects</b></p> <p>In order to be considered for an appointment in terms of this tender, Tenderer must have completed a road construction project of value equal to or exceeding <b>R 7 million in</b> the last 10 years</p>

F.2.1.1.2

All such projects shall be located within the SADC (South African Development Community) region.

Details of roads related projects & supporting information must be entered in **Form C** of the Returnable Schedules. Copies of Completion Certificates and appointment letters must be attached, in order to qualify for this tender.

Failure to comply with the requirements or to complete Form C will render the tender non-responsive.

#### **Construction Industry Development Board (CIDB) Registration**

Only those tenderers who are registered with the CIDB, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25 (7A) of the Construction Industry Development Regulations, for a **6CE** class or higher of construction work, are eligible to have their tenders evaluated

Joint Ventures are eligible to submit tenders provided that their joint grading is equivalent to a .....class grading or higher.

1. Every member of the joint venture is registered with the CIDB;
2. The lead partner has a contractor grading designation in the **6CE** Class or Higher class of construction work;
3. The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a **6CE** class of construction work or a value determined in accordance with Regulation 25 (1B) or 25 (7A) of the Construction Industry Development Regulations.

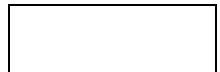
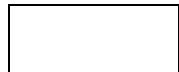
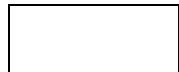
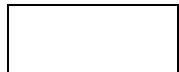
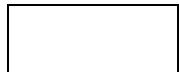
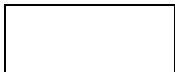
Notwithstanding the above, tenderers who are capable of being so registered prior to the evaluation of submissions may be evaluated at the sole discretion of the Employer.

4. At least one of the Joint Venture Partners are to be in possession of NQF Level 5 Qualification as defined in Section C

#### c] Key Personnel

In order to be considered for an appointment in terms of this tender, the tenderer must have in its employment the following key personnel who comply with the following minimum requirements:

- A suitably qualified and experienced **Contracts Manager** who will be the single point accountable and responsible person for the full time management of the construction works on site, who has a minimum of five (5) years' experience in roads and concrete works project(s) and LIC NQF 5.
- A suitably qualified and experienced **Site Agent** who will be the single point accountable and responsible person for the full time management of the construction works on site, who has a minimum of five (5) years' experience in publicly funded roads and bridges construction projects, with EPWP and LIC components
- A suitably qualified and experienced full time **Construction Health and Safety Officer** to manage the Contractor's health and safety obligations on site who has a full SAMTRAC certificate



	<p>Details of key personnel and their relevant information must be entered in <b>Form J</b> of the Returnable Schedules. Copies of CV's and certificates of qualifications and professional registration must be attached, in order to qualify for this tender.</p> <p>Where the key personnel are no longer available to undertake the necessary work after the award of the tender, the contractor shall within a period of 14 working days replace the key personnel listed in Form J with personnel with equivalent competencies and subject to approval by the Employer. Such approval shall not be unreasonably withheld.</p> <p>Failure to comply with the requirements or to complete <b>Form J</b> will render the tender non-responsive.</p> <p>d] Addenda</p> <p>Failure to apply instructions contained in Addenda will render a tenderer's offer non-responsive in terms of Condition of Tender</p>
F.2.7	<p><b>Clarification meeting</b></p> <p><i>Add the following:</i></p> <p>The arrangements for a compulsory site visit/clarification meeting are as stated in the Tender Notice and Invitation to Tender.</p> <p>Tenderers should be represented at the site visit/clarification meeting by a person who is suitably qualified and experienced to comprehend the implications of the work involved.</p>
F.2.9	<p><b>Insurance</b></p> <p><i>Add the following:</i></p> <p>The employer does not provide insurance. The Contractor is responsible for providing full insurance cover for the contract.</p>
F.2.13	<p><b>Submitting a tender offer</b></p> <p><i>Add the following to F.2.13.5</i></p>
F.2.13.5	<p>All Tenders must be emailed to <a href="mailto:tenders.scm@mbizana.gov.za">tenders.scm@mbizana.gov.za</a> by not later than 12h00 noon on the 05 February 2024 <b>at which they will be opened</b>. All tenders must be clearly marked "Name of the project and Reference number indicated below".</p> <p><b>CONSTRUCTION OF THALENI ACCESS ROAD AND BRIDGES PHASE 1 : THALENI BRIDGE</b></p> <p><b>WMMLM .....</b></p>
F.2.13.6	<p><i>Add the following to F.2.13.6</i></p> <p>A two-envelope system as outlined in F.3.5.1 will <b>NOT</b> be followed</p>
F.2.15	<p><b>Closing time</b></p> <p><i>Add the following to F.2.15.1:</i></p>
F.2.15.1	<p>The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender. Telephonic, telegraphic, telex, facsimile tender offers will not be accepted Only emailed tender offers will be accepted.</p>
F.2.16	<p><b>Tender offer validity</b></p> <p><i>Add the following to F.2.16.1</i></p>
F.2.16.1	<p>The tender offer validity period is <b>90 days</b></p>

F.2.17	<b>Clarification of tender offer after submission</b>
	<p><i>Add the following to F.2.17:</i></p> <p>A tender will be rejected as non-responsive if the tenderer fails to provide any clarification requested by the employer within the time for submission stated in the employer's written request for such clarification. A tender will also be rejected as non-responsive if the tenderer fails, within the time stated in writing by the Employer, to comply with the requirements of F.4.4.</p>
F.2.18	<b>Provide other material</b>
F.2.18.1	<p><i>Add the following to F.2.18.1:</i></p> <p>Provide, on written request by the Employer, where the tendered amount inclusive of VAT <b>exceeds R 10 million</b>:</p> <ul style="list-style-type: none"> <li>i) audited annual financial statement for 3 years, or for the period since establishment if established during the last 3 years, if required by law to prepare annual financial statements for auditing;</li> <li>ii) a certificate signed by the tenderer certifying that the tenderer has no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days;</li> <li>iii) particulars of any contracts awarded to the tenderer by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract;</li> </ul> <p>a statement indicating whether any portion of the goods or services are expected to be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality or municipal entity is expected to be transferred out of the Republic.</p> <p>The tenderer shall, when requested by the Employer to do so, submit the names of all management and supervisory staff that will be employed to supervise the labour-intensive portion of the works together with satisfactory evidence that such staff members satisfy the eligibility requirements.</p> <ul style="list-style-type: none"> <li>iv) Each party to a Consortium/Joint Venture shall submit separate certificates/statements in the above regard.</li> </ul>
F.2.23	<b>Certificates</b>
	<p><i>Add the following:</i></p> <p>The tenderer is required to submit the following:</p>
F.2.23.1	<p><b>Tax Clearance Certificate</b></p> <p>Tenderers shall be registered and in good standing with the South African Revenue Service (SARS) and shall submit documentary evidence in the form of an original valid Tax Clearance Certificate issued by SARS or proof that he or she has made arrangements with SARS to meet his or her outstanding tax obligations.</p> <p>Each party to a Consortium/Joint Venture shall submit a separate Tax Clearance Certificate, or proof that he or she has made the necessary arrangements with SARS.</p>
F.2.23.2	<p><b>Bargaining Council Certificates</b></p> <p>Where applicable, a certificate of compliance issued by the relevant Bargaining Council.</p> <p>Each party to a Consortium/Joint Venture shall submit separate certificates in the above regard.</p>



<b>F.3</b> <b>F.3.2</b>	<p><b>EMPLOYERS UNDERTAKINGS</b></p> <p><b>Issue Addenda</b></p> <p><i>Add the following to F.3.2:</i></p> <p>Notwithstanding any requests for confirmation of receipt of Addenda issued, the tenderer shall be deemed to have received such addenda if the employer can show proof of transmission thereof (or a notice in respect thereof) via electronic mail, facsimile or registered post.</p> <p><b>F.3.4</b></p> <p><b>Opening of tender submissions</b></p> <p><i>Add the following to F.3.4.1:</i></p> <p>The time and location for opening of the tender offers is:</p> <p>Time: Tenders will be opened immediately after the closing time for receipt of tenders as stated in the Tender Notice and Invitation to Tender, or as stated in any Addendum extending the closing date.</p> <p>Location: <b>Winnie Madikizela-Mandela Local Municipality, 51 Winnie Madikizela, Bizana, 4800.</b></p> <p><b>F.3.8</b></p> <p><b>Test for responsiveness</b></p> <p><i>Add the following:</i></p> <p>Tenders will be considered non-responsive if, <i>inter alia</i>:</p> <ul style="list-style-type: none"> <li>- the tender is not in compliance with the Scope of Work;</li> <li>- the tenderer does not comply with the CIDB contractor grading designation specified in F.2.1.1.2 above;</li> <li>- the tenderer has failed to clarify or submit any supporting documentation within the time for submission stated in the employers written request;</li> </ul> <p><b>F.3.11</b></p> <p><b>Evaluation of tender offers</b></p> <p>The method for the evaluation of responsive tenders is <b>Method 1 (Financial Offer, and Preference)</b>. The following formula will be used to calculate the total number of tender evaluation points: <math>T_{EV} = N_{FO} + N_p</math></p> <p>The procedure for the evaluation of responsive tenders is Method 2</p>
	<p><b>Maximum number of tender evaluation points</b></p>
Price Component	80
SPECIFIC GOALS	20
Total evaluation points	100

**AWARDED FOR PRICE****'20 OR 90/10 PREFERENCE POINT SYSTEMS**

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

80/20

or

90/10

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

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

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

**FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT****POINTS AWARDED FOR PRICE**

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

80/20

or

90/10

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

$$Ps = 90 \left( 1 + \frac{Pt - P_{max}}{P_{max}} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest acceptable tender

**POINTS AWARDED FOR SPECIFIC GOALS**

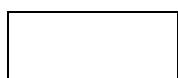
In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—

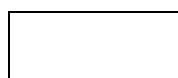
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
- (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

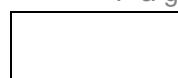
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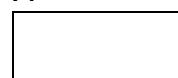
Contractor



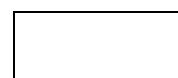
Witness 1



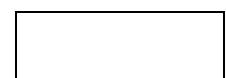
Witness 2



Employer



Witness 1



Witness 2

F.3.11.3	<p><b>Method 2: Financial offer and preference</b> In the case of a financial offer and preferences:</p> <p>a) Score each tender in respect of the financial offer made and preferences claimed, if any, in accordance with the provisions of F.3.11.7 and F.3.11.8.</p> <p><b>Scoring Financial Offers</b></p> <p>F.3.11.7 The financial offer will be scored using Formula 2 (option 2) where the value of <math>W_1</math> is:</p> <p>The financial offer will be scored using the following formula: <math>N_{FO} = W_1 \times A</math></p> <p><b>Scoring financial offers</b> The value of <math>W_1</math> is:</p> <p>1] 90 where the financial value, inclusive of VAT, of all responsive tender offers received has a value in excess of R50 000 000.00; or</p> <p>2] 80 where the financial value, inclusive of VAT, of one or more responsive tender offers has a value that equals or is less than R50 000 000.00.</p> <p>The value of <math>A</math> will be calculated utilising Formula 2 (Option 1):</p> <p><math>A = [1 - (P - P_m) / P_m]</math></p> <p>Where <math>P</math> is the comparative offer of the tender offer under consideration and <math>P_m</math> is the comparative offer of the most favourable comparative offer.</p> <p>In the event that the calculated value is negative, the allocated score shall be zero [0].</p> <p><b>The applicable formula for this tender will be</b></p> <p>The following formula must be used to calculate the points out of 80 for price in respect of an invitation for a tender with a Rand value equal to or below R50 million, inclusive of all applicable taxes:</p> $Ps = 80 \times \left(1 - \frac{(Pt - P_{min})}{P_{min}}\right)$ <p>Where-</p> <p><math>Ps</math> = Points scored for price of tender under consideration;</p> <p><math>Pt</math> = Price of tender under consideration; and</p> <p><math>P_{min}</math> = Price of lowest acceptable tender.</p> <p>No tenderer will be recommended for an award unless the tenderer has demonstrated that he/she has the resources and skills required.</p>
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F3.11.10	<p>Add the following new subclause:</p> <p><b>Risk Analysis</b></p> <p>Notwithstanding compliance with regard to CIDB registration or any other requirements of the tender, the employer will perform a risk analysis in respect of the following:</p> <ul style="list-style-type: none"><li>a) reasonableness of the financial offer</li><li>b) reasonableness of unit rates and prices</li><li>c) reasonableness of the Contract Participation Goals tendered</li><li>d) the tenderers ability to fulfil its obligations in terms of the tender document, that is, that the tenderer can demonstrate that he/she possesses the necessary professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience, reputation, personnel to perform the contract, etc.</li></ul> <p>No tenderer will be recommended for an award unless the tenderer has demonstrated that he/she has the resources and skills required.</p> <p>F.3.12</p> <p>Full insurance to be provided by the Contractor. The contractor must provide the employer with the insurance policy information and certificates prior to the commencement of the contract.</p> <p>F.3.13</p> <p><b>Acceptance of tender offer</b></p> <p>Add the following to F.3.13:</p> <p>F.3.13.1</p> <p>Tender offers will only be acceptable if:</p> <ul style="list-style-type: none"><li>a) the tenderer is registered and in good standing with the South African Revenue Service (SARS) or SARS pin and has submitted evidence in the form of an <b>original</b> valid Tax Clearance Certificate issued by SARS or proof that he or she has made arrangements with SARS to meet his or her outstanding tax obligations;</li><li>b) the tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;</li><li>c) the tenderer has not:<ul style="list-style-type: none"><li>i) abused the Employer's Supply Chain Management System; or</li><li>ii) failed to pay municipal rates and taxes or service charges and such rates, taxes and charges are in arrears for more than three months;</li></ul></li><li>d) the tenderer has completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process.</li></ul>
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F.3.17	<p>a) Tenderers must be registered on the Central Supplier Database at National Treasury prior to the Award of a tender and the Tenderer's Tax Status must be compliant (National Treasury SCM Instruction #4A of 2016/2017: Central Supplier Database);</p> <p>b) Tenderers must submit proof of registration with the Bargaining Council (BCCEI). Good standing will be required within 21 days of tender award.</p> <p>c) the tenderer must be registered with the Construction Industry Development Board in an appropriate contractor grading designation (CE) (All parties to submit this information in the case of a Joint Venture);</p> <p>d) the tenderer or any of its directors is not listed in the Register of Tender Defaulters or the List of Restricted Suppliers managed by the National Treasury (<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;</p> <p>e) the tenderer has not abused the Employer's Supply Chain Management System;</p> <p>f) the tenderer has not failed to perform on any previous contract with the Employer;</p> <p>g) the tenderer has completed and signed Form B (Certificate of Authority for Signatory) if applicable;.</p> <p>h) the Form of Offer is duly completed and signed (Note: Any correction must be signed by the authorised signatory);</p> <p>i) the tenderer has completed and signed the Compulsory Enterprise Questionnaire (Form T2.2R) (for each of the participating firms in the case of a joint venture);</p> <p>j) has completed and signed all SBD Forms (SBD1; SBD4; SBD6.1; SBD6.2; SBD8; SBD9)</p> <p>k) all relevant certified information is submitted with the Tender;</p> <p>l) all other Tender Conditions are complied with.</p> <p>m) Tenderers are to meet the minimum eligibility requirements specified in Clause F2.1</p> <p>n) Tenderers must have attended the compulsory Briefing Meeting and have signed the Attendance Register, otherwise their Tender will be eliminated.</p> <p>.</p> <p>Add the following:</p> <p>“Acceptance of the tender offer will be subject to the provisions of Clause F.1.5.1 and F.2.1.”</p> <p>Note that the successful Tenderer will be required to submit a <b>valid</b> Letter of Good Standing from the Compensation Commissioner or FEMA within 21 days of receipt of Letter of Award.</p> <p><b>Provide copies of the contract</b></p> <p>Add the following:</p> <p>The number of paper copies of the signed contract to be provided by the Employer is one.</p>
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#### F.4 ADDITIONAL CONDITIONS OF TENDER

The additional conditions of tender are:

##### F.4.1 Compliance with Occupational Health and Safety Act 1993

Tenderers are to note the requirements of the Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations 2003 issued in terms of Section 43 of the Act. The tenderer shall

be deemed to have read and fully understood the requirements of the above Act and Regulations and to have allowed for all costs in compliance therewith.

In this regard the Tenderer shall submit with his tender,: Health and Safety Plan in T2.2 : Returnable Schedules, a detailed Health and Safety Plan in respect of the Works in order to demonstrate the necessary competencies and resources to perform the construction work all in accordance with the Act and Regulations. Such Health and Safety Plan shall cover inter-alia the following details:

- (1) Management Structure, Site Supervision and Responsible Persons including a succession plan.
- (2) Contractor's induction training programme for employees, sub-contractors and visitors to the Site.
- (3) Health and safety precautions and procedures to be adhered to in order to ensure compliance with the Act, Regulations and Safety Specifications.
- (4) Regular monitoring procedures to be performed.
- (5) Regular liaison, consultation and review meetings with all parties.
- (6) Site security, welfare facilities and first aid.
- (7) Site rules and fire and emergency procedures.

Tenderers are to note that the Contractor is required to ensure that all sub-contractors or others engaged in the performance of the contract also comply with the above requirements.

The Contractor shall prepare and maintain a Health and Safety File in respect of the project, which shall be available for inspection on Site at all times and handed over to the Employer on Final Completion of the project.

The Contractor is required to submit to the Employer the Occupational Health and Safety Agreement (included in C1.4 of the Contract Document) and a letter of good standing from the Compensation Commissioner, or a licensed compensation insurer, within 14 days after the Commencement Date of the contract.

#### F.4.2 Eligibility with respect to expanded public works programme

This Contract will conform to the guidelines for the Expanded Public Works Programme project.

#### F.4.3 Claims arising after submission of tender

No claim for any extras arising out of any doubt or obscurity as to the true intent and meaning of anything shown on the Contract Drawings or contained in the Conditions of Contract, Scope of Work and Pricing Data, will be admitted by the Employer/Employer's Agent after the submission of any tender and the Tenderer shall be deemed to have:

- 1) Inspected the Contract Drawings and read and fully understood the Conditions of Contract.
- 2) Read and fully understood the whole text of the Scope of Work and Pricing Data and thoroughly acquainted himself with the nature of the works proposed and generally of all matters which may influence the Contract.
- 3) Visited the site of the proposed works, carefully examined existing conditions, the means of access to the site, the conditions under which the work is to be done, and acquainted himself with any limitations or restrictions that may be imposed by the Municipal or other Authorities in regard to access and transport of materials, plant and equipment to and from the site and made the necessary provisions for any additional costs involved thereby.

4) Requested the Employer or his duly authorised agent to make clear the actual requirements of anything shown on the Contract Drawings or anything contained in the Scope of Work and Pricing Data, the exact meaning or interpretation of which is not clearly intelligible to the Tenderer.

Before submission of any tender, the Tenderer should check the number of pages, and if any are found to be missing or duplicated, or the figures or writing indistinct, or if the Pricing Data contain any obvious errors, the tenderer must apply to the Employer/Employer's Agent at once to have the same rectified, as no liability will be admitted by the Employer/Employer's Agent in respect of errors in any tender due to the foregoing.

5) Received any Addenda to the tender documents which have been issued in accordance with the Employer's Supply Chain Management Policy.

#### F.4.4 **Imbalance in tendered rates**

In the event of tendered rates or lump sums being declared by the Employer to be unacceptable to it because they are either excessively low or high or not in proper balance with other rates or lump sums, the Tenderer may be required to produce evidence and advance arguments in support of the tendered rates or lump sums objected to. If, after submission of such evidence and any further evidence requested, the Employer is still not satisfied with the tendered rates or lump sums objected to, it may request the tenderer to amend these rates and lump sums along the lines indicated by it.

The Tenderer will then have the option to alter and/or amend the rates and lump sums objected to and such other related amounts as are agreed on by the Employer, but this shall be done without altering the tender offer as tendered or, if applicable, the corrected total of prices in accordance with F.3.9.3.

Should the Tenderer fail to amend his Tender in a manner acceptable to the Employer, the Employer may reject the Tender.

#### F.4.5 **Community liaison officer**

The contractor shall in his dealings with the communities affected by the project, work with the Project Steering Committee (PSC) which has been elected by the ISD Officer / Social Facilitator appointed by the Employer. The PSC acts as a communication structure between the project and the community. The process of appointing the Community Liaison Officer (CLO) is also facilitated by the Social Facilitator together with the PSC. The CLO acts as a link between the contractor and the labourers and the PSC, and attends to all labour related issues. The CLO facilitates labour recruitment through the PSC.

The CLO and the Executive structure of the PSC (Chairperson, Vice-Chairperson and the Secretary) attend monthly project progress report meetings (site) besides the PSC meetings attended by the full PSC. The contractor must include in his rates the costs of attending and average of one meeting each month. The CLO is appointed for the period of physical construction, plus a period of 14 days prior to this period. The contractor will provide office and stationery to the CLO to be able to perform his or her duties.

The ISD Consultant shall prepare and facilitate the signing of the contract between the CLO and the contractor. Remuneration of the **CLO R6 000** per month for the period of employment and will change in accordance with change in rates from the Department of Labour. A CLO who fails in the responsibilities he/she is given will be replaced following the procedures as stipulated in his or her contract with the contractor. The Terms of reference for the CLO shall be provided by the ISD Consultant.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

#### **F.4.6 Labour intensive construction/use of local labour**

It is a requirement of the Contract that the work be executed in such a manner as to maximise the use of labour intensive construction systems in order to provide the local community with employment opportunities. The daily rate for unskilled labour will be **R 200**.

#### **F.4.7 Invalid tenders**

Tenders shall be considered invalid and shall be endorsed and recorded as such in the tender opening record, by the responsible official who opened the tender, in the following circumstances:

- a) if the tender offer (the tender price/amount) is not submitted on the Form of Offer and Acceptance bound into this tender document (form C1.1, Part C1: Agreements and Contract Data);
- b) if the tender is not completed in non-erasable ink;
- c) if the Form of Offer and Acceptance has not been signed;
- d) if the Form of Offer and Acceptance is signed, but the name of the tenderer is not stated or is indecipherable.

#### **F4.11 Price variations**

The Contract Price shall not be subject to any contract price adjustment, the rates and prices tendered in the bills of quantities shall be final and binding throughout the period of the contract any additional period that the contract will be extended by including any period of undue extension.

#### **F.4.14 Requests for contract documents, or parts thereof, in electronic format**

The Employer shall not formally issue tender documents in electronic format as contemplated in F.2.13.2 and F.2.13.3 and shall only issue tender documents in hardcopy. An electronic version of the issued tender documents may be made available to the tenderer, upon written request in terms of this clause, subject to the following:

- (a) Electronic copies of the contract document, or parts thereof, will only be provided to tenderers who have been issued with the tender documents as contemplated in F.1.2 in hardcopy.
- (b) The electronic version shall not be regarded as a substitute for the issued tender documents.
- (c) The Employer shall not accept tenders submitted in electronic format. Tenderers may not complete and submit a printed copy of the electronic version of the tender document or part thereof. Only those tenders that have been completed on the issued hard copy tender document shall be considered.
- (d) The Employer accepts no responsibility or liability arising from any reliance on or use of the electronic version provided in terms of this clause. The Employer further does not guarantee that the electronic version corresponds with the issued tender documents in all respects. Tenderers are alerted to the fact that electronic versions of the tender documents may not reflect any notices or addenda that amend the tender document.
- (e) Any non-compliance with these provisions, including effecting any unauthorised alterations to the tender document as contemplated in F.2.11, shall render the tender invalid. The Employer reserves the right to take any action against such tenderer allowed in law including, in circumstances where the tender had already been awarded, the right to cancel the contract.
- (f) In requesting the electronic version of the tender document or parts thereof, the tenderer is deemed to have read, understood and accepted all of the above conditions.
- (g) The Tenderer must make provision in his tender for all labour, materials, construction equipment, temporary works, supervision, office overheads, profit, all statutory taxes and duties and everything else which is required to execute the works in accordance with the tender document, adopting labour intensive construction methodology and applicable legislation.

**PART T2 RETURNABLE DOCUMENTS**

## T2.1 LIST OF RETURNABLE DOCUMENTS

The Tenderer must complete the following returnable documents:

1. **Returnable Schedules required only for tender evaluation purposes**

**DRAFT**

- A. Joint Venture Disclosure Form (where applicable);
- B. Compulsory Enterprise Questionnaire;
- C. Record of Addenda to Tender Documents;
- D. Proposed Amendments and Qualifications;
- E. Schedule of Subcontractors;
- F. Schedule of Plant and Equipment;
- G. Schedule of Tenderer's Experience (not for Winnie Madikizela-Mandela Local Municipality);
- H. Schedule of Tenderer's experience for Winnie Madikizela-Mandela Local Municipality;
- I. Contractors Key Personnel and Detailed CV's (*including NQF Qualification*);
- J. Health and Safety Plan;
- K. Detailed Preliminary Program;
- L. Schedule of Estimated Monthly Expenditure;
- M. PROOF OF REGISTRATION WITH THE BARGAINING COUNCIL (BCCEI)

**2. Other documents required only for tender evaluation purposes**

	<b>2A.</b>	Certificate of Contractor Registration issued by the Construction Industry Development Board.	
	<b>2B.</b>	Tax Clearance Certificate (MBD 2).	
	<b>2C.</b>	Audited financial statements Where the tendered amount inclusive of VAT exceeds R <b>10</b> million:	
	<b>2D.</b>	Certificate of Tenderer's visit to the site.	
	<b>2E.</b>	Certificate of Authority for Signatory	
	<b>2F.</b>	Alterations by Tenderer.	
	<b>2G.</b>	Surety and Bank Details.	
	<b>2H.</b>	Company Composition.	
	<b>2I.</b>	Declaration of Interests MBD 4	

	<b>2J.</b>	PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022 – MBD 6.1	
	<b>2K.</b>	DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS - MBD 6.2	
	<b>2L.</b>	Preference points claim form in terms of Local content of products	
	<b>2M</b>	DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES (MBD 8)	
	<b>2N.</b>	Certificate of independent bid determination (MBD 9)	
	<b>2O</b>	Company profile	
	<b>2P.</b>	Certified copies of identity documents for directors	
	<b>2Q.</b>	Specific goals	
	<b>2R.</b>	Current commitments schedule	
	<b>2S.</b>	Proof of good standing with municipal accounts	
	<b>2T.</b>	Method statement	
	<b>2U.</b>	Record of addenda to tender document	
	<b>2V.</b>	Declaration for procurement above R 10 million	
	<b>2W.</b>	Central Supplier Database Registration	
	<b>2X.</b>	Bank rating	
	<b>2Y.</b>	Joint venture agreement	

**3. Other documents that will be incorporated into the contract**

C1.1 Offer and Acceptance;

C1.2 Contract Data (Part 2);

C1.9 Certificate of Authority for Signatory to Agreement in Terms of Occupational Health and Safety Act 1993 (Act No 85 of 1993 As Updated In Gov. Gazette 7721 Of 18 July 2003);

C1.10 Agreement In Terms Of The Occupational Health And Safety Act 1993 (Act No. 85 Of 1993, As Updated In Government Gazette 7721 Of 18 July 2003);

C1.11 Certificate Of Authority For Signatory To Agreement In Terms Of The Constitution Of The Republic Of South Africa, Environmental Conservation Act And Environmental Management Act;

C1.12 Agreement In Terms Of The Constitution Of The Republic Of South Africa, Environmental Conservation Act And Environmental Management Act;

C2.2 Bill of Quantities.

**T2.2 RETURNABLE SCHEDULES****1A. JOINT VENTURE DISCLOSURE FORM  
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) Name .....

b) Postal address .....

.....

.....

.....

c) Physical address .....

.....

.....

d) Telephone .....

e) Fax .....

## 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(a)** 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)*

## 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(a)** Name of Firm .....

Postal Address .....

Physical Address .....

Telephone .....

Fax .....

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

.....  
**3.3(a) Name of Firm .....**

Postal Address .....

Physical Address .....

Telephone .....

Fax .....

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

.....  
**4. BRIEF DESCRIPTION OF THE ROLES OF THE AFFIRMABLE JOINT VENTURE PARTNERS IN THE JOINT VENTURE**  
.....  
.....  
.....

**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) Profit and loss sharing .....  
.....

(ii) Initial capital contribution in Rands .....  
.....

.....  
.....

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

(iii) Anticipated on-going capital contributions in Rands .....  
.....

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--

--

--

--

--

(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	PARTNER NAME
a)	
b)	
c)	
d)	
e)	

AFFIRMABLE JOINT VENTURE PARTNERS	PARTNER NAME
a)	
b)	
c)	
d)	
e)	

## 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

.....  
.....

## 8. MANAGEMENT OF CONTRACT PERFORMANCE

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

(a) Supervision of field operations

.....

(b) Major purchasing

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

.....  
(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

Witness 2

Employer

Witness 1

Witness 2

## 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 AFFIRMABLE JOINT VENTURE PARTNERS	EX NUMBER NONAFFIRMABLE 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 the 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.

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

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**.....

Duly authorised to sign on behalf of .....

Name.....

Address.....

Telephone.....

Date.....

---

**Signature**.....

Duly authorised to sign on behalf of .....

Name.....

Address.....

Telephone.....

Date.....

---

**Signature**.....

Duly authorised to sign on behalf of .....

Name.....

Address.....

Telephone.....

Date.....

---

**Signature**.....

Duly authorised to sign on behalf of .....

Name.....

Address.....

Telephone.....

Date.....

---

**Signature**.....

Duly authorised to sign on behalf of .....

Name.....

Address.....

Telephone.....

Date.....

---

**Signature**.....

Duly authorised to sign on behalf of .....

Name.....

Address.....

Telephone.....

Date.....

**1B. COMPULSORY ENTERPRISE QUESTIONNAIRE**

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

**Section 1: Name of enterprise** . . . . .

**Section 2: VAT registration number, if any:** . . . . .

**Section 3: CIDB registration number, if any:** . . . . .

**Section 4: Particulars of sole proprietors and partners in partnerships**

Name*	Identity number*	Personal income tax number*

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

**Section 5: Particulars of companies and close corporations**

Company registration number . . . . .

Close corporation number . . . . . Tax reference number . . . . .

**Section 6: Record in the service of the state**

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

<input type="checkbox"/> a member of any municipal council	<input type="checkbox"/> an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999)
<input type="checkbox"/> a member of any provincial legislature	<input type="checkbox"/> a member of an accounting authority of any national or provincial public entity
<input type="checkbox"/> a member of the National Assembly or the National Council of Province	<input type="checkbox"/> an employee of Parliament or a provincial legislature
<input type="checkbox"/> a member of the board of directors of any municipal entity	
<input type="checkbox"/> an official of any municipality or municipal entity	

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

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

\*insert separate page if necessary

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

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

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

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

\*insert separate page if necessary

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

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

Signed \_\_\_\_\_

Date \_\_\_\_\_

Name \_\_\_\_\_

Position \_\_\_\_\_

*Enterprise name* \_\_\_\_\_

Contractor

Witness 1

Witness 2

Page | 36

Employer

Witness 1

Witness 2

## 1C. RECORD OF ADDENDA TO TENDER DOCUMENTS

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

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

Attach additional pages if more space is required.

Signed \_\_\_\_\_

Date \_\_\_\_\_

Name \_\_\_\_\_

Position \_\_\_\_\_

*Enterprise name* \_\_\_\_\_

**1D. PROPOSED AMENDMENTS AND QUALIFICATIONS**

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

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

Page	Clause or item	Proposal

Signed \_\_\_\_\_

Date \_\_\_\_\_

Name \_\_\_\_\_

Position \_\_\_\_\_

Enterprise name \_\_\_\_\_

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## 1E. SCHEDULE OF SUBCONTRACTORS

With regard to Clause 4.4 of the General Conditions of Contract:

The tenderer shall list below at least two (2) special items of work on this Contract on which he intends to subcontract and the names of the subcontractors will be supplied from Winnie Madikizela-Mandela Local Municipality's SMME data base.

We confirm that all Subcontractors who are contracted to construct a house are registered as home builders with the National Home Builders Registration Council.

	Special Item of Work	Estimated amount of work (R)
1.		
2.		
3.		
4.		

Signed \_\_\_\_\_

Date \_\_\_\_\_

Name \_\_\_\_\_

Position \_\_\_\_\_

Enterprise name \_\_\_\_\_

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## 1F. SCHEDULE OF PLANT AND EQUIPMENT

The Tenderer must state below what construction plant of his own will be available to the project. Failure to complete this schedule will be taken to indicate that Tenderer does not have access to adequate plant and equipment. Proof of ownership or hiring shall be attached to ensure adequate completion of this tender document.

ITEM	DESCRIPTION/SIZE/CAPACITY	QUANTITY (No)
1.		
2.		
3.		

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

Signature of Tenderer: .....

Date: .....

<b>Commissioner of Oaths</b>  Signature.....  Date.....	<b>Official Stamp</b>  	
---	--	---

**1G. SCHEDULE OF TENDERER'S EXPERIENCE (not for Winnie Madikizela-Mandela Local Municipality)**

Tenderers must furnish hereunder details of similar works/service, which they have satisfactorily completed in the past. The information shall include a description of the Works, the Contract value and name of Employer.  
 . Copies of completion certificates and/or reference letters to be included

<b>PREVIOUS AND/OR CURRENT PROJECTS UNDERTAKEN</b>					
<b>EMPLOYER</b>	<b>NATURE OF WORK</b>	<b>VALUE OF WORK</b>	<b>DURATION AND COMPLETION DATE</b>	<b>EMPLOYER CONTACT NO.</b>	

Signature of Tenderer: .....

Date: .....

**1H : SCHEDULE OF TENDERER'S EXPERIENCE (for Winnie Madikizela-Mandela Local Municipality)**

Tenderers must furnish hereunder details of similar works/service, which they have satisfactorily completed in the past. The information shall include a description of the Works, the Contract value and name of Employer. Copies of completion certificates and/or reference letters to be included.

<b>PREVIOUS AND/OR CURRENT PROJECTS UNDERTAKEN FOR WINNIE MADIKIZELA-MANDELA LOCAL MUNICIPALITY</b>			
<b>PROJECT NAME</b>	<b>AWARDED AMOUNT</b>	<b>CONTRACT DATE</b>	<b>ANTICIPATED / ACTUAL COMPLETION DATE</b>

Signature of Tenderer: .....

Date: .....







Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**1I. CONTRACTORS KEY PERSONNEL & DETAILED CV'S (including NQF Qualification)**

The bidder must state below the key management staff he intends using for this contract and attach relevant detailed CV's indicating their previous experience. This information shall be deemed to be material to the adjudication of the Contract.

Failure to complete this Schedule *and provide proof of NQF Qualification* may result in the Tender being non responsive.

POSITION	NAME	ROADS REPAIRS AND RELATED EXPERIENCE (YEARS)
		<b>GENERAL</b>
Contracts Manager		
Site Agent		
Safety Officer		
Director		

Signature of Tenderer: .....

Date: .....

## 1J.

**HEALTH AND SAFETY PLAN**

Tenderers are to note the requirements of the Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations 2003 issued in terms of Section 43 of the Act. The tenderer shall be deemed to have read and fully understood the requirements of the above Act and Regulations and to have allowed for all costs in compliance therewith.

In this regard the tenderer shall prepare and attach a Health and Safety Plan in respect of the Works in order to demonstrate the necessary competencies and resources to perform the construction work all in accordance with the Act and Regulations. Such Health and Safety Plan shall cover inter-alia the following details:

- (1) Management Structure, Site Supervision and Responsible Persons including a succession plan.
- (2) Contractor's induction training programme for employees, sub-contractors and visitors to the Site.
- (3) Health and safety precautions and procedures to be adhered to in order to ensure compliance with the Act, Regulations and Safety Specifications.
- (4) Regular monitoring procedures to be performed.
- (5) Regular liaison, consultation and review meetings with all parties.
- (6) Site security, welfare facilities and first aid.
- (7) Site rules and fire and emergency procedures.

Tenderers are to note that the Contractor is required to ensure that all sub-contractors or others engaged in the performance of the contract also comply with the above requirements.

The tenderer shall also take into account the additional requirements stated in the Scope of Work when drawing up the Health and Safety Plan for the contract.

**Details of the Health and Safety Plan shall be appended to this Schedule.**

Number of sheets, appended by the tenderer to this Schedule..... (If nil, enter NIL).

Signature of Tenderer: .....

Date: .....

**1K. DETAILED PRELIMINARY PROGRAMME**

The Tenderer shall attach a ***detailed and realistic preliminary programme*** to this page, reflecting the proposed sequence and tempo of execution of the various activities comprising the work for this Contract. The programme shall be in bar chart format and shall indicate the critical path(s) of the project. In particular, the Tenderer shall indicate the point where he/she intends commencing the work and the direction in which the work will proceed.

The programme shall be in accordance with the information provided in Form 1F: Schedule of Construction, Plant, Form 1L: Schedule of Estimated Monthly Expenditure, the Bill of Quantities, and with all other aspects of the tender documents.

Failure to supply a realistic preliminary programme may prejudice the Tender.

Signature of Tenderer: .....

Date: .....

**1L. SCHEDULE OF ESTIMATED MONTHLY EXPENDITURE**

The Tenderer shall state his estimated value of the work to be completed every month, based on his preliminary programme and his tender unit rates, in the table below. The amounts for Contingencies, Dayworks and Contract Price Adjustment shall not be included.

MONTH	VALUE (INCLUSIVE OF 15% VAT)	CUMULATIVE VALUE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

Signature of Tenderer: .....

Date: .....

**1M: PROOF OF REGISTRATION WITH THE BARGAINING COUNCIL (BCCEI)**

Tenderers must attach to this page, proof of registration with the Bargaining Council. Good Standing will be required within 21 days of tender award.

(reference Government Gazette No.37750: All Civil Engineering Contractors on CIDB grading 3CE or higher must be registered with the Bargaining Council for the Civil Engineering Industry and submit proof of registration and good standing as part of Returnable Schedules).

In the case of Joint Ventures, proof must be provided for each partner.

**Note:** Failure to submit proof of valid registration will deem the tender to be Non-Responsive

Signature of Tenderer: .....

Date: .....

**2. OTHER DOCUMENTS REQUIRED FOR TENDER EVALUATION**

**2A. CERTIFICATE OF CONTRACTOR REGISTRATION ISSUED BY THE CONSTRUCTION INDUSTRY BOARD (CIDB)**

Please affix copy of CIDB Certificate to this page or write CRS number.

**DRAFT**

Signature of Tenderer: .....

Date: .....

**2B. TAX CLEARANCE REQUIREMENTS (MBD 2)**

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

1. In order to meet this requirement Tenderers are required to complete in full the attached form TCC 001 "Application for a Tax Clearance Certificate" and submit it to any SARS branch office nationally. The Tax Clearance Certificate Requirements are also applicable to foreign Tenderers / individuals who wish to submit Tenders.
2. SARS will then furnish the Tenderer with a Tax Clearance Certificate that will be valid for a period of 1 (one) year from the date of approval.
3. The original Tax Clearance Certificate must be submitted together with the Tender. Failure to submit the original and valid Tax Clearance Certificate will result in the invalidation of the Tender. Certified copies of the Tax Clearance Certificate will not be acceptable.
4. In Tenders where Consortia / Joint Ventures / Sub-contractors are involved, each party must submit a separate Tax Clearance Certificate.
5. Copies of the TCC 001 "Application for a Tax Clearance Certificate" form are available from any SARS branch office nationally or on the website [www.sars.gov.za](http://www.sars.gov.za).
6. Applications for the Tax Clearance Certificates may also be made via eFiling. In order to use this provision, taxpayers will need to register for this service with SARS through the website [www.sarsefiling.co.za](http://www.sarsefiling.co.za).



**2C. AUDITED FINANCIAL STATEMENTS - WHERE THE TENDERED AMOUNT INCLUSIVE OF VAT EXCEEDS R10 MILLION**

- Audited annual financial statement for 3 years, or for the period since establishment if established during the last 3 years, if required by law to prepare annual financial statements for auditing;
- Certificate certifying that the tenderer has no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days;
- Particulars of any contracts awarded to the tenderer by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract;
- A statement indicating whether any portion of the goods or services are expected to be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality or municipal entity is expected to be transferred out of the Republic.

**2D. CERTIFICATE OF TENDERER'S VISIT TO THE SITE / ATTENDANCE AT COMPULSORY BRIEFING SESSION**

This is to certify that, I .....

representative of (Tenderer) .....

of (address) .....

Telephone number: .....

Fax number: .....

in the company of (Engineer's representative) .....

attended a briefing and/or visited and examined the site on (date) .....

I further certify that I have made myself familiar with all local conditions likely to influence the work and 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) .....

**ENGINEER'S REPRESENTATIVE:** (Signature).....

(Name) .....

**2E. CERTIFICATE OF AUTHORITY FOR SIGNATORY**

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.

An example is given below:

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

Mr/Mrs....., whose signature appears below, has been duly authorised

to sign all documents in connection with the Tender for Contract No. ..... 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. .....

2. .....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## **2F. ALTERATIONS BY TENDERER**

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.

Signature of Tenderer: .....

Date: .....

---

**Contractor**

1

**Witness 1**

\_\_\_\_\_

---

***Witness 2***

\_\_\_\_\_

---

***Employer***

\_\_\_\_\_

---

***Witness 1***

\_\_\_\_\_

***Witness 2***

## 2G. SURETY AND BANK DETAILS

### SURETY DETAILS

The Surety we intend providing is from .....

Contact Person .....

Contact Telephone numbers .....

Type of Surety .....

### BANK DETAILS

Bank Name .....

Account Number .....

Account Type .....

Contact Person .....

Tel No. ....

Fax No. ....

Address ....

Signature of Tenderer: .....

Date: .....

## **2H. COMPANY COMPOSITION**

## GENERAL

All information **must** be filled in spaces provided. If additional space is required, additional sheets may be attached. The onus is on the Tenderer to fill in all the information. Failure to do so will result in points being lost under equity. The full company composition is required including HDI and Non-HDI status. The ownership must accumulate to 100%.

Signature of Tenderer: .....

Date: .....

\_\_\_\_\_

1

Page 10

1

\_\_\_\_\_

\_\_\_\_\_

## 2I: DECLARATION OF INTEREST

1. No bid will be accepted from persons in the service of the state<sup>1</sup>.
2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority.

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

- 3.1 Full Name of bidder or his or her representative:.....
- 3.2 Identity Number: .....
- 3.3 Position occupied in the Company (director, trustee, shareholder<sup>2</sup>):.....
- 3.4 Company Registration Number: .....
- 3.5 Tax Reference Number:.....
- 3.6 VAT Registration Number: .....
- 3.7 The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.
- 3.8 Are you presently in the service of the state? **YES / NO**

3.8.1 If yes, furnish particulars. .....

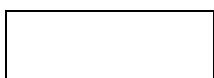
<sup>1</sup>MSCM Regulations: "in the service of the state" means to be –

- (a) a member of –
  - (i) any municipal council;
  - (ii) any provincial legislature; or
  - (iii) the national Assembly or the national Council of provinces;
- (b) a member of the board of directors of any municipal entity;
- (c) an official of any municipality or municipal entity;
- (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);
- (e) a member of the accounting authority of any national or provincial public entity; or (f) an employee of Parliament or a provincial legislature.

<sup>2</sup> "Shareholder" means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.





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

3.9.1 If yes, furnish particulars.....

.....

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

3.10.1 If yes, furnish particulars.

.....

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

3.11.1 If yes, furnish particulars

.....

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

3.12.1 If yes, furnish particulars.

.....

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

3.13.1 If yes, furnish particulars.

.....

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

3.14.1 If yes, furnish particulars:

.....

.....

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

Full Name	Identity Number	State Employee Number

### CERTIFICATION

I, THE UNDERSIGNED (FULL NAMES)

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

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

.....  
Signature

.....  
Date

.....  
Capacity

.....  
Name of Bidder

**2J: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022**

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

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

**1.**

**GENERAL CONDITIONS**

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

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

**1.2**

**To be completed by the organ of state**

*(delete whichever is not applicable for this tender).*

- a) The applicable preference point system for this tender is the **90/10** preference point system.
- b) The applicable preference point system for this tender is the **80/20** preference point system.
- c) Either the **90/10 or 80/20 preference point system** will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

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

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

**1.4 To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
<b>Total points for Price and SPECIFIC GOALS</b>	<b>100</b>

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

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

## 2. DEFINITIONS

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

## 3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

### 3.1. POINTS AWARDED FOR PRICE

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

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

80/20

or

90/10

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

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

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

### 3.2.1. POINTS AWARDED FOR PRICE

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

**80/20**

**or**

**90/10**

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

$$Ps = 90 \left( 1 + \frac{Pt - P_{max}}{P_{max}} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest acceptable tender

### 4. POINTS AWARDED FOR SPECIFIC GOALS

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



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

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

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

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
South African	1.5	3		
Black	1.5	3		
Women	1.75	3.5		
Youth	1.75	3.5		
Leaving with disability	1.75	3.5		
Military Veterans	1.75	3.5		
<b>Total Points Allocated</b>	<b>10</b>	<b>20</b>		

#### DECLARATION WITH REGARD TO COMPANY/FIRM

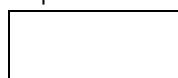
4.3. Name of company/firm.....

4.4. Company registration number: .....

4.5. TYPE OF COMPANY/ FIRM

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

[TICK APPLICABLE BOX]



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

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

SIGNATURE(S) OF TENDERER(S)	
SURNAME AND NAME	
DATE	
ADDRESS	

**2K: DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS**

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, 2017, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

**1. General Conditions**

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) make provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) prescribes that in the case of designated sectors, organs of state must advertise such tenders with the specific bidding condition that only locally produced or manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for tenders referred to in paragraph 1.2 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 targeted goals.
- 1.4. 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.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - \frac{x}{y}] * 100$$

Where  $x$  is the imported content in Rand  
 $y$  is the bid price in Rand 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 South African Reserve Bank (SARB) on the date of advertisement of the bid as indicated in paragraph 3.1 below.

**The SABS approved technical specification number SATS 1286:2011 is accessible on <http://www.thedti.gov.za/industrialdevelopment/ip.jsp> at no cost.**

- 1.6. A bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation;








2. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:

<u>Description of services, works or goods</u>	<u>Stipulated minimum threshold</u>
_____	_____ %
_____	_____ %
_____	_____ %

3. Does any portion of the goods or services offered have any imported content?  
(*Tick applicable box*)

YES	NO	
-----	----	--

3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on [www.resbank.co.za](http://www.resbank.co.za)

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

<b>Currency</b>	<b>Rates of exchange</b>
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

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

4. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

#### LOCAL CONTENT DECLARATION

(REFER TO ANNEX B OF SATS 1286:2011)

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)

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**IN RESPECT OF BID NO. ....****ISSUED BY:** (Procurement Authority / Name of Institution):**NB**

- 1 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.
- 2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on [http://www.thedi.gov.za/industrial\\_development/ip.jsp](http://www.thedi.gov.za/industrial_development/ip.jsp). Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, ..... (full names), do hereby declare, in my capacity as ..... of .....(name of bidder entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that:
  - (i) 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 1286:2011; and
- (c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

**If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E.**

- (d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- (e) 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 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

**SIGNATURE:** \_\_\_\_\_

**WITNESS No. 1** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**WITNESS No. 2** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**MBD 6.4**

**2L : PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2001 LOCAL CONTENT OF PRODUCTS**

**NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES SPECIFIED IN CLAIM FORM MBD 6.1 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2001**

1. Regulation 12(1) of the Preferential Procurement Regulations makes provision for the promotion of locally manufactured products within the preference point systems.

**SPECIFIC GOAL**

The stimulation of the S.A economy by procuring locally  
Manufactured products.

**POINTS ALLOCATED**

.....

2. Preference points may only be claimed for products, which will be manufactured (fabricated, processed or assembled), in the Republic of South Africa. In cases where production has not yet commenced at time of bid closure, evidence shall be produced that at the time of bid closure, the bidder was irrevocably committed to local production of the product.
3. **“Local content”** means that portion of the bid price, excluding Value Added Tax (VAT), which is not included in imported content, **provided that local manufacture does take place.**
4. **“Imported content”** means that portion of the bid price represented by the costs of components, parts or materials which have been or are still to be imported (whether by the bidder or his suppliers or subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duties, sales duties, or other similar taxes or duties at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies for which a bid has been submitted are manufactured.

**5. BID INFORMATION**

Bidders who wish to claim points in respect of this goal must furnish the information in paragraph 7 below.

## 6. POINTS CLAIMED

Indicate whether point(s) allocated for this goal is (are) claimed.

Yes / No

## 7. INFORMATION WITH REGARD TO LOCAL MANUFACTURE

Indicate in the table below which product(s) [item number(s)] is/are manufactured locally against the % local content of each product / item in relation to the bid price (exclusive of VAT). Points claimed must be indicated in the "points claimed" column.

Percentage local content in relation to bid Price	Indicate item numbers	Points Allocated	Points Claimed
10 % - 30 %			
31 % - 60 %			
61 % or more			

## 8. BID DECLARATION

I/we, the undersigned, who warrants that he/she is duly authorised to do so on behalf of the firm declare that points claimed, based on the local content of the product(s) above, qualifies the firm for the point(s) shown and I / we acknowledge that:

- (i) The information furnished is true and correct.
- (ii) In the event of a contract being awarded as a result of points claimed, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct.
- (iii) If the claims are found to be incorrect, the purchaser, in addition to any other remedy it may have -
  - (a) recover all costs, losses or damages it has incurred or suffered as a result of that person's conduct; and
  - 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;

## WITNESSES:

1. ....  
2. ....

SIGNATURE (S) OF BIDDER (S)

DATE:

.....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**2M:DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES**

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

Item	Question	Yes	No
4.1	<p>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?</p> <p>(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).</p> <p><b>The Database of Restricted Suppliers now resides on the National Treasury's website (<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) and can be accessed by clicking on its link at the bottom of the home page.</b></p>	<input type="checkbox"/>	<input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	<p>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)? <b>The Register for Tender Defaulters can be accessed on the National Treasury's website (<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) by clicking on its link at the bottom of the home page.</b></p>	<input type="checkbox"/>	<input type="checkbox"/>
4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	<input type="checkbox"/>	<input type="checkbox"/>

4.3.1	If so, furnish particulars:		
Item	Question	Yes	No
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	<input type="checkbox"/>	<input type="checkbox"/>
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	<input type="checkbox"/>	<input type="checkbox"/>
4.7.1	If so, furnish particulars:		

## CERTIFICATION

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

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

Signature

Date

Position

Name of Bidder

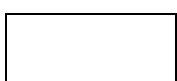
Js367bW

**2N: CERTIFICATE OF INDEPENDENT BID DETERMINATION**

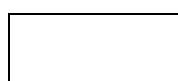
- 1 This Municipal Bidding Document (MBD) must form part of all bids<sup>1</sup> invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties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

<sup>1</sup> Includes price quotations, advertised competitive bids, limited bids and proposals.

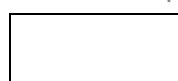
<sup>2</sup> Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is,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



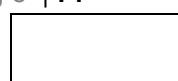
Contractor



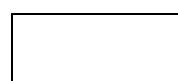
Witness 1



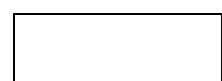
Witness 2



Employer



Witness 1



Witness 2

**CERTIFICATE OF INDEPENDENT BID DETERMINATION**

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

(Name of Municipality / Municipal Entity)

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

I certify, on behalf of: \_\_\_\_\_ that:

(Name of Bidder)

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



Contractor



Witness 1



Witness 2



Employer



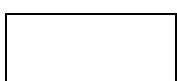
Witness 1



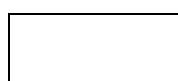
Witness 2

6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium<sup>3</sup> will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
  - (a) prices;
  - (b) geographical area where product or service will be rendered (market allocation)
  - (c) methods, factors or formulas used to calculate prices;
  - (d) the intention or decision to submit or not to submit, a bid;
  - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
  - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

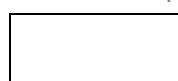
<sup>3</sup> Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.



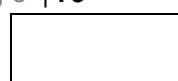
Contractor



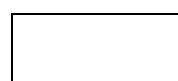
Witness 1



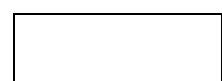
Witness 2



Employer



Witness 1



Witness 2

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

.....  
Signature

.....  
Date

.....  
Position

.....  
Name of Bidder

Js9141w 4

**20. COMPANY PROFILE**

Please affix a Company profile to this page.

**DRAFT**

Signature of Tenderer: .....

Date: .....

**2P. CERTIFIED COPIES OF IDENTITY DOCUMENT FOR DIRECTORS**

Please affix certified copies of identity document for directors to this page.

**DRAFT**

Signature of Tenderer: .....

Date: .....

**2Q. SPECIFIC GOALS CLAIM FORMS**

Please affix the company's proof for **points attained on Specific Goals** to this page.

**DRAFT**

Signature of Tenderer: .....

Date: .....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## 2R: CURRENT COMMITMENTS SCHEDULE

SIGNATURE: ..... DATE: .....  
(of person authorised to sign on behalf of the Tenderer)

A large, empty rectangular box with a black border, occupying the top half of the page. It is intended for the student to draw a picture of a house or write their name.

---

**Contractor**

A large, empty rectangular box with a black border, intended for drawing or writing.

---

***Witness 1***

A large, empty rectangular box with a black border, designed for drawing or writing.

---

***Witness 2***

1

---

***Employer***

A large, empty rectangular box with a black border, designed for drawing or writing.

**Witness 1**

A large, empty rectangular box with a black border, intended for a child to draw a picture of a house.

---

***Witness 2***

## 2S: PROOF OF GOOD STANDING WITH MUNICIPAL ACCOUNTS

The tenderer is to affix to this page:

- Proof that their business and directors are not in arrears for more than 30 days with municipal rates and taxes and municipal service charges for business premises used and the residential address. The latest municipal account statement is to be attached.

Note:

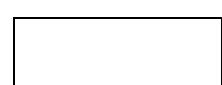
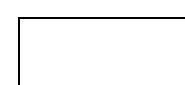
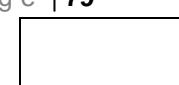
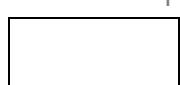
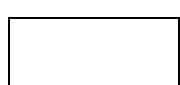
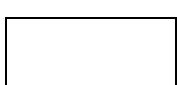
1. Failure to affix such documentation as prescribed to this page shall result in this tender not being further considered for the award of the contract.
2. Should this tender be considered for award of the contract, based on proof of submission and should proof of such submission be found to be invalid, erroneous or inaccurate, the this tender will no longer be considered for the award of the contract.

Attach latest municipal account statement to this page.

SIGNATURE: .....

person authorised to sign on behalf of the Tenderer)

DATE: ..... (of



Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## 2T: METHOD STATEMENT

The Tenderer must attach a proposed work plan/method statement based on the scope of work and other information provided in the document which must briefly describe the following:

- (a) Construction procedures / methodology
- (b) Resources (personnel) to be used
- (c) Materials and plant to be used
- (d) Quality control measures
- (e) Storage of materials
- (f) Risk management
- (g) Health and Safety measures to be taken
- (h) Environmental control measures to be taken

The above information may be in the form a summary but should not exceed 10 pages.

DRAFT

SIGNATURE: .....

DATE: .....

(of person authorised to sign on behalf of the Tenderer)

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**2U: RECORD OF ADDENDA TO TENDER DOCUMENT**

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

ADD Nº	DATE	TITLE OR DETAILS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

\*Attach additional pages if more space is required.

SIGNATURE: ..... DATE: ..... (of  
person authorised to sign on behalf of the Tenderer)

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**2V: DECLARATION FOR PROCUREMENT ABOVE R10 MILLION (ALL APPLICABLE TAXES INCLUDED)**

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

1 Are you by law required to prepare annual financial statements for auditing? \* **YES / NO**

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

.....  
.....

2 Do you have any outstanding undisputed commitments for municipal services towards any municipality for more than three months or any other service provider in respect of which payment is overdue for more than 30 days? \* **YES / NO**

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

2.2 If yes, provide particulars.

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

3 Has any contract been awarded to you by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract? \* **YES / NO**

3.1 If yes, furnish particulars

.....  
.....

\* Delete if not applicable

4 Will any portion of goods or services be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality / municipal entity is expected to be transferred out of the Republic? \* **YES / NO**

4.1 If yes, furnish particulars

**CERTIFICATION**

*(Please use block capitals when completing the section below)*

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: .....  
(of person authorised to sign on behalf of the Tenderer)

NAME: .....

POSITION: .....

\* Delete if not applicable

---

## 2W: CENTRAL SUPPLIER DATABASE REGISTRATION

Name of Tenderer:

.....

Database Registration Number:

.....

**Tenderer to attach a CSD Summary Report not older than 30 days from the tender closing date. No awards will be made to a tenderer who is not registered and compliant on the Central Supplier Database (CSD).**

The establishment of a Central Supplier Database (CSD) will result in one single database to serve as the source of all supplier information for all spheres of government. The purpose of centralising government's supplier database is to reduce duplication of effort and cost for both supplier and government while enabling electronic procurement processes.

Registration on the Central Supplier Database must be done online via the website:

<https://secure.csd.gov.za/>

SIGNATURE: .....

DATE: .....

(of person authorised to sign on behalf of the Tenderer)

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**2X: BANK RATING**

The Tenderer shall attach hereto an original or certified copy of the bank rating, not more than 3 months old at the date of tender closing

DRAFT

**2Y: JOINT VENTURE AGREEMENT**

The Tenderer must attach to this page a joint venture agreement, if applicable.

DRAFT

# THE CONTRACT

## PART C1: AGREEMENT AND CONTRACT DATA

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## C1.1 Form of Offer and Acceptance

### OFFER

The employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the **CONSTRUCTION OF THALENI 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 returnable schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the tenderer, deemed to be duly authorised, signing this part of this form of offer and acceptance, the tenderer offers to perform all of the obligations and liabilities of the service provider 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 PRICES INCLUSIVE OF VALUE ADDED TAX IS:

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

This offer may be accepted by the employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the tenderer before the end of the period of validity stated in the tender data, whereupon the tenderer becomes the party named as the service provider in the conditions of contract identified in the contract data.

### FOR THE TENDERER:

Signature(s) \_\_\_\_\_

Name(s) \_\_\_\_\_

Capacity \_\_\_\_\_

Name and address of organisation.... \_\_\_\_\_

### Name and signature of Witness:

Signature(s) \_\_\_\_\_

Name(s) \_\_\_\_\_

Date \_\_\_\_\_

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 the above listed Parts.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the returnable schedules and 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 form of offer and acceptance. No amendments to or deviations from said documents are valid unless contained in this schedule.

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer's agent (whose details are given in the contract data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data. Failure to fulfill any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

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

Signature(s) .....

Name(s) .....

Capacity .....

for the Employer

Winnie Madikizela-Mandela Local Municipality

Infrastructure Directorate

51 Winnie Madikizela Street

Bizana

4800

Name and signature of witness .....

Date .....

#### Schedule of Deviations

**Notes:**

1. The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender,
2. A 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,
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here,
4. Any change or addition to the tender documents arising from the above Agreements and recorded here, shall also be incorporated into the final draft of the Contract,

1 Subject .....  
Details .....

2 Subject .....  
Details .....

3 Subject .....  
Details .....

4 Subject .....  
Details .....

By the duly authorised representatives signing this agreement, 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 returnable 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.

**For the Tenderer:**

Signature(s)

Name(s)

Capacity

(Insert name and address of  
organisation)Name &  
signature of  
witness

Date

For the Employer

Signature  
e(s)

Name(s)

Capacity

(Name and  
address of  
organization)Winnie Madikizela-Mandela Local Municipality  
Infrastructure Directorate  
Operations and Maintenance  
135 Winnie Madikizela  
Flagstaff  
4810Name &  
signature  
of  
witness

Date

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## 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)

20.....(year)

at .....(place)

For the Contractor:

**ONLY TO BE  
COMPLETED AT  
ACCEPTANCE STAGE**

Signature

Name

.....  
Capacity

Signature and name of witness:

.....  
Signature

.....  
Name

## Schedule of Deviations

### Notes:

1. The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender,
2. A 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,
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here,
4. Any change or addition to the tender documents arising from the above Agreements and recorded here, shall also be incorporated into the final draft of the Contract,

1 Subject .....

Details .....

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

2 Subject .....

Details .....

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

3 Subject .....

Details .....

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

4 Subject .....

Details .....

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

By the duly authorised representatives signing this agreement, 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 returnable 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.

### For the Tenderer:

Signature(s)

Name(s)

Capacity

*(Insert name and address of organisation)*

Name & signature of witness

Date

### For the Employer:

Signature(s)

Name(s)

Capacity

(Name and Winnie Madikizela-Mandela Local  
Municipality address of Infrastructure Directorate  
organization) Operations and Maintenance 135 Winnie  
Madikizela

Flagstaff  
4810

Name &  
signature of  
witness

Date

## 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) 20.....(year)

at .....(place)

Name

For the Contractor:

.....  
Signature

Signature and name of witness:

.....  
.....  
.....  
**ONLY TO BE  
COMPLETED AT  
ACCEPTANCE STAGE**

## C1.2 Contract Data

### Part 1: Data provided by the Employer

The General Conditions of Contract for Construction Works, Third Edition, 2015, published by the South African Institution of Civil Engineering Private Bag X200, Halfway House, 1685, is applicable to this Contract and is obtained from [www.saice.org.za](http://www.saice.org.za).

The pro-formas bound with the General Conditions of Contract for Construction Works, Third Edition, 2015, shall not apply to this Contract and shall be replaced with the documentation bound into this document.

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

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

Where reference is made to the standard specifications in this contract, it shall mean the COLTO Standard Specifications for Road and Bridge Works for State Road Authorities 1998, prepared by the Committee of Land Transport Officials complete with any corrections and amendments applicable at the time of tendering. Amendments to the standard specifications are bound in the contract documents in Part C3 : Section B : Project Specifications.

The COLTO Standard Specifications for Road and Bridge Works for State Road Authorities 1998, prepared by the Committee of Land Transport Officials, may be obtained / purchased from the South African Institution of Civil Engineering (SAICE), Private Bag X200, Halfway House 1685, Tel: (011) 805 5947, Fax: (011) 805 5971, e-mail: [civilinfo@saice.org.za](mailto:civilinfo@saice.org.za).

This COLTO Standard Specification may also be inspected, by appointment, at the offices of the Employer and the Consulting Engineer's during normal office hours.

Clause	Data
1.1	The terms Client, Principal Contractor, Contractor and Designer, as used in the Occupational Health and Safety Act – Construction Regulations are synonymous with the terms Employer, Contractor, Sub-Contractor and Engineer as defined in Clause 1.1 of the GCC 2015.
1.1.1.13	The Defects Liability Period is 365 days [measured from the date of the Certificate of Completion].
1.1.1.14	The time for achieving Practical Completion is <b>6 Months (tenderer to state the time for completion)</b> , inclusive of the 14 day period referred to in Clause 5.3.2 below, and inclusive of non-working days and the year-end breaks referred to in Clause 5.8.1 below, but exclusive of special non-working days (Clause 5.8.1).
1.1.1.15	The Employer is <b>Winnie Madikizela-Mandela Local Municipality</b> .

1.1.1.16	<p>The Employer's Agent is <b>Ziinzame Consulting Engineers (Pty) Ltd</b>, also referred to in the Contract as "ZCE"</p> <p>The Employer's Agent's address for receipt of communications is:</p> <table> <tr> <td>Physical address:</td><td>Postal Address:</td></tr> <tr> <td>25 Falcon Avenue,</td><td>Private Bag X 6043,</td></tr> <tr> <td>Southernwood</td><td>Mthatha</td></tr> <tr> <td>Mthatha</td><td>5100</td></tr> <tr> <td>5100</td><td></td></tr> </table> <p>Tel No: 047 531 0269 e-mail: <a href="mailto:admin@ziinzame.co.za">admin@ziinzame.co.za</a></p>	Physical address:	Postal Address:	25 Falcon Avenue,	Private Bag X 6043,	Southernwood	Mthatha	Mthatha	5100	5100	
Physical address:	Postal Address:										
25 Falcon Avenue,	Private Bag X 6043,										
Southernwood	Mthatha										
Mthatha	5100										
5100											
1.1.1.26	The Pricing Strategy means the strategy stated in the contract Data which is adopted to secure prices and remunerate the Contract in terms of the contract.										
1.1.1.35	" <b>Drawings</b> " means all drawings, calculations and technical information forming part of the Contract Documents and any modifications thereof or additions thereto from time to time approved in writing by the Engineer or delivered to the Contractor by the Engineer.										
1.1.1.36	<b>Letter of Notification</b> " means the letters of formal notification, signed by the Employer, of the decision of the Supply Chain Management Bid Adjudication Committee sent to all tenderers. The notification of the decision does not form part of the Employer's Acceptance of the successful tenderer's Offer and no rights shall accrue.										
1.2.1.2	<p>The Employer's address for receipt of communications is:</p> <p>Postal address:</p> <p>51 Winnie Madikizela Bizana 4800</p> <p>Tel: (039) 251 0230 <a href="mailto:NontandaV@mbizana.gov.za">NontandaV@mbizana.gov.za</a></p> <p><b>Contact Mr V. Nontanda</b></p>										
1.3.2	The governing law is the law of the republic of South Africa.										

2.4.1	<p>"in the event of any ambiguity, conflict or discrepancy between the various contract documents, lists and schedules, the order of precedence (from highest to lowest) shall be as follows:</p> <ul style="list-style-type: none"> <li>• The form of offer and acceptance</li> <li>• Contract forms</li> <li>• The contract data</li> <li>• General conditions of contract (GCC 2015 ) 3<sup>rd</sup> Edition</li> <li>• Scope of Work</li> <li>• Standard specification for Road and Bridge Works (COLTO 1998)</li> <li>• Site Information</li> <li>• Construction drawings</li> <li>• Bill of quantities</li> <li>• The returnable schedules</li> </ul>
3.2.3	<p>The Employer's Agent shall obtain the specific approval of the Employer before executing any of his functions or duties according to the following Clauses of the General Conditions of Contract:</p> <ol style="list-style-type: none"> <li>1 Clause 6.3: Variations (where total variations exceed the contingency sum)</li> <li>2 Clause 5.12: Extension of Time for Practical Completion <ul style="list-style-type: none"> <li>- Certify additional costs/expenditure</li> <li>- Taking over of the Works</li> </ul> </li> </ol>
3.1.3	<p>The Engineer shall obtain the specific approval of the Employer before executing any of his functions or duties according to the following Clauses of the General Conditions of Contract: GCC 2015 3<sup>rd</sup> Edition</p> <ol style="list-style-type: none"> <li>1. Clause 3.3.1 Nomination of Engineer's Representative</li> <li>2. Clause 3.3.4 Engineer's authority to delegate</li> <li>3. Clause 4.7.1 Dealing with fossils</li> <li>4. Clause 5.8.1 Non-working times</li> <li>5. Clause 5.11.1 Suspension of the Works</li> <li>6. Clause 5.12.1 Approval of any extension of time for completion</li> <li>7. Clause 5.12.4 Acceleration of progress instead of extension of time</li> <li>8. Clause 5.13.2 Reduction of a penalty for delay</li> <li>9. Clause 6.3.2 The issuing of variation orders</li> <li>10. Clause 6.8.4 The Subsequent changes in legislation</li> <li>11. Clause 6.11 The Variations exceeding 15 per cent</li> <li>12. Clause 10.1.5 Engineer's ruling of Contractor's claim</li> <li>13. Clause 7.5.5 and 7.6.22 Authorising the contractor to repair and make good expected risk</li> </ol>
3.1.4	<p><i>Delete the last sentence of the Clause</i></p>
3.2.4	<p>"the time limit for referring the matter to the Engineer by the Contractor shall be twenty one (21) days after the decision in question was given by the engineer's representative"</p>

4.3.3 "The Employer and the Contractor hereby agree, in terms of the provisions of section 37 (2) of the Occupational Health & Safety Act, 1993 (Act 85 of 1993, hereinafter referred to as 'the Act') that the following arrangements and procedures shall apply between them to ensure compliance by the Contractor with the provisions of the Act, namely:

- (a) The Contractor undertakes that the appropriate officials and employees of the Contractor will fully acquaint themselves with all relevant provisions of the Act and the Regulations promulgated in terms of the Act;
- (b) The Contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the Act and regulations will be fully complied with;
- (c) The Contractor hereby accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and Regulations, and expressly absolves the Employer from itself being obliged to comply with any of the aforesaid duties, obligations, and prohibitions; with the exception of such duties, obligations and prohibitions expressly assigned to the Employer in terms of the Act and its associated Regulations;
- (d) The Contractor agrees that any duly authorised official of the Employer shall be entitled to take such steps as may be necessary to ensure that the Contractor has complied with his undertakings as set out more fully in paragraphs (a) and (b) above, which steps may include, but will not be limited to, the right to inspect any appropriate site or premises occupied by the Contractor, or to inspect any appropriate records or Safety Plans held by the Contractor;
- (e) The Contractor shall be obliged to report forthwith to the Employer any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the Act and regulations, pursuant to work performed in terms of this Contract, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge;
- (f) The Contractor shall furthermore, in compliance with the Construction Regulations of 2003 (Notice No. R1010, dated 18 July 2003) to the Act:
  - (i) Acquaint himself with the requirements of the Employer's health and safety Specification as laid down in regulation 4(1)(a) of the Construction Regulation of 2003, and prepare a suitably and sufficiently documented health and safety plan as contemplated in regulation 5(1) of the Construction Regulation of 2003 for approval by the Employer or his assigned agent. The Contractor's health and safety plan and risk assessment shall be submitted to the employer for approval within 14 days from the date of the Letter of Acceptance and shall be implemented and maintained from the Commencement of the Works.
  - (ii) The Employer, or his assigned agent, reserves the right to conduct periodic audits, as contemplated in the Construction Regulations 2003, to monitor that the Contractor is compliant in respect of his obligations. Failure by the Contractor to comply with requirements of these Regulations shall entitle the Engineer, at the request of the Employer or his Agent, to suspend all or any part of the Works, with no recourse whatsoever by the Contractor for any damages incurred as a result of such suspension, such time as the Employer or his Agents are satisfied that the issues in which the Contractor has been in default have been rectified."

4.4.3	<p>1 All specialists' merchants, tradesmen and others executing any work or supplying any goods for which provisional or prime cost sums are provided in the Schedule of Quantities and who are selected for this purpose by the Contractor and the Employer as specified hereafter, shall in the execution of such work be subcontractors of the Contractor and are herein referred to as "Selected Subcontractors".</p> <p>2 The contractual relationship between the Contractor and the selected sub-contractor shall be the same as those which normally apply between contractors and ordinary subcontractors as specified <i>inter alia</i> in clause 3 hereafter.</p> <p>3 Unless another procedure is specified in the Special Conditions of Contract, the procurement of Selected Subcontractors by the Contractor is to be carried out using the legislated Standard Conditions of Tender (as published and amended from time to time by the Construction Industry Development Board).</p> <p>It is intended that the Subcontract Agreement and Provisions of Subcontract Third Edition (2003) Incorporating General Conditions of Sub Contract 2003 for use in accordance with Subcontractors Works of Civil Engineering Construction as provided by the South African Federation of Civil Engineering Contractors be used as the basis of the subcontract between the Contractor and each selected subcontractor</p> <p>The Contractor shall incorporate in the subcontract provisions that:</p> <ul style="list-style-type: none"> <li>(a) In respect of the work of the goods that are subject of the subcontract the Selected Subcontractor undertakes to the Contractor <i>mutatis mutandis</i> the obligations and liabilities as are imposed upon the Contractor to the Employer in terms of the Contract, and hold the Contractor harmless from and indemnifies him against the same and in respect of all claims, demands, lawsuits, damages, costs, charges and expenses whatsoever arising out of or in connection therewith, or arising out or in connection with any failure to perform such obligations or to fulfil such liabilities, and</li> <li>(b) the Selected Subcontractors hold the Contractor harmless from and indemnifies him against: <ul style="list-style-type: none"> <li>(i) shortcomings in the subcontract works if and where the works were designed by the Selected Subcontractor;</li> <li>(ii) defects in the goods if and where the goods were manufactured and/or supplied by the Selected Subcontractor;</li> <li>(iii) any negligence by the Selected Subcontractor; his agents, workmen and servants;</li> <li>(iv) any misuse by the Selected Subcontractor of any Construction Plant, Temporary Works or materials provided by the Contractor for the purposes of the Contract; and</li> <li>(v) any claims as aforesaid</li> </ul> </li> <li>(c) entitles him to pay direct to local and other labourers all payments the selected subcontractor has failed to make to any local and other labourers and to deduct, by way of settlement, the amounts paid by the Contractor from money owing to or that may become owing to selected subcontractor.</li> </ul>
5.3.1	The documentation required before commencement with Works execution are:

	<ul style="list-style-type: none"> <li>- Health and Safety Plan (Refer to Clause 4.3)</li> <li>- Initial programme (Refer to Clause 5.6)</li> <li>- Security (Refer to Clause 6.2)</li> <li>- Insurance (Refer to Clause 8.6)</li> <li>- Cash flow projection</li> <li>- Agreement of Indemnity in Terms of Occupational Health and Safety Act 1993</li> </ul>
5.3.2	<p>The time to submit the documentation required before commencement with the Works execution is 14 days of receipt of the signed Form of Offer and Acceptance.</p> <p>The commencement of the works shall be subject to the approval required in terms of the applicable Construction Regulations, as detailed in clause 1.1.1.14.</p>
5.4.4	<p>“The Contractor shall bear all costs and charges for special and temporary rights of way required by him in connection with access to the Site. The Contractor shall also provide at his own cost any additional facilities outside the Site required by him for the purposes of the Works.”</p>
5.8.1	<p>The non-working days are Sundays.</p> <p>The special non-working days are:</p> <ol style="list-style-type: none"> <li>(1) All gazetted public holidays falling outside the year end break.</li> <li>(2) The year end break commencing on 15 December and ending on 5 January</li> </ol>

5.12.2.2	<p>No extension of time will be granted in respect of any delays attributed to normal climatic conditions. Normal climatic conditions shall be deemed to include normal rainfall and associated wet conditions and materials, strong winds and extremes of temperature. However, in the event that delays to critical activities exceed the number of working days listed below for each month, then abnormal climatic conditions shall be deemed to exist, and an extension of time may be claimed in accordance with the provisions of Clause 5.12.</p> <p>The number of days quoted below shall be regarded as a fair estimate of the delays to be anticipated and allowed for under normal climatic conditions where inclement weather prevents or disrupts critical work.</p> <table data-bbox="346 601 632 1028"> <tbody> <tr><td>January</td><td>4 days</td></tr> <tr><td>February</td><td>4 days</td></tr> <tr><td>March</td><td>4 days</td></tr> <tr><td>April</td><td>4 days</td></tr> <tr><td>May</td><td>4 days</td></tr> <tr><td>June</td><td>2 days</td></tr> <tr><td>July</td><td>2 days</td></tr> <tr><td>August</td><td>2 days</td></tr> <tr><td>September</td><td>2 days</td></tr> <tr><td>October</td><td>4 days</td></tr> <tr><td>November</td><td>4 days</td></tr> <tr><td>December</td><td>4 days</td></tr> </tbody> </table>	January	4 days	February	4 days	March	4 days	April	4 days	May	4 days	June	2 days	July	2 days	August	2 days	September	2 days	October	4 days	November	4 days	December	4 days
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	<p>Claims for delays for abnormal climatic conditions shall be accompanied by substantiating facts and evidence, which shall be submitted timeously as each day or half-day delay is experienced.</p> <p>It shall be further noted that where the critical path is not affected, no extension of time for abnormal climatic conditions or for any other reason will be entertained.</p>																								
5.13.1	<p>The penalty for failing to complete the Works is <b>R1000.00</b> per day per day up to a limit of 30 normal working day, upon which automatic termination may be effected by the Employer.</p> <p>A fixed penalty of <b>R 500</b> per occurrence shall be deducted for each and every occurrence of non-compliance with any of the requirements of Section 1500 of the Standard Specifications and Section B1500 of the Scope of Works.</p> <p>In addition a time-related penalty of <b>R 300</b> per day over and above the fixed penalty shall be deducted for non-compliance to rectify any defects in the accommodation of traffic within the allowable time after an instruction to this effect has been given by the Engineer. The Engineer's instruction shall state the allowable time, which shall be the time in hours for reinstatement of the defects. Should the Contractor fail to adhere to this instruction, the time-related penalty shall be applied from the time the instruction was given.</p>																								
5.16.3	<p>The latent defect period is 10 years.</p>																								
6.5.1.2.3	<p>The percentage allowances to cover all overhead charges is up to 10%</p>																								

6.2.1	The security to be provided by the Contractor shall be a performance guarantee of <b>10%</b> of the Contract Sum. The performance guarantee shall contain the wording of the document included in C1.3. In the event that the contractor is unable to provide such a guarantee, a deduction of 10% shall be made to each payment certificate payable to the contractor with the accumulated amount paid out upon achieving Completion.
6.8.2	Contract Price Adjustment <b>is not</b> applicable in this contract.
6.8.3	“Special materials (such as steel products) shall be considered with supporting documentary evidence. Details of special materials are indicated in the Contract Data.”
6.10.1.5	The percentage advance on materials not yet built into the Permanent Works is 80 %.
6.10.2	“Payment to the Contractor for any materials on site shall only be authorized after proof of ownership by the Contractor has been lodged with the Employer’s Agent in the form of received invoices or other acceptable documents, or if ownership is ceded to the Employer.”
6.10.3	The percentage retention on the amounts due to the Contractor is 10% on each payment. The limit on retention is: 5% of the Contract Price, if a Performance Guarantee is provided, and valid and 10 % of the Contract Price, if a Performance Guarantee is not provided.
6.10.4	<p><i>Add the following to clause 6.10.4:</i></p> <p>Notwithstanding the above, the Engineer shall be empowered to withhold the delivery of the payment certificate until the Contractor has complied with his obligations to report as described in the Scope of Work.</p>
8.2.1	<p>“The Contractor shall protect the Works properly and shall so arrange his operations that the minimum danger and inconvenience are caused to the public and to vehicle and pedestrian traffic. For this purpose he shall, <i>inter alia</i>, provide and maintain sufficient road traffic signs, lights, barricades, fencing and guarding as may be necessary or required by the Engineer or by any act, regulation or statutory authorities.</p> <p>All operations required in connection with the execution and completion of the Works shall, as far as the provisions of the Contract permit, not unnecessarily or in any improper manner encroach upon the use of public roads or upon access to private property, and the Contractor hereby indemnifies the Employer against any claims, demand, damage and costs that may arise in this regard.</p> <p>Compensation for such obligations shall be included in the Contractor’s prices for provisional and general costs, except in as far as provision is made in the specifications for payment in respect of specific items pertaining to these obligations.”</p>
8.6.1.1.2	The value of plant and materials supplied by the Employer to be included in the insurance sum is zero (R0.00)

8.6.1.1.3	The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is zero (0.00) rand.
8.6.1.3	The limit of indemnity for liability insurance is R 10 000 000 for any single claim – the number of claims to be unlimited during the construction and Defects Liability period.
8.6.1.5	In addition to the insurances required in terms of General Conditions of Contract Clauses 8.6.1.1 to 8.6.1.4 the following insurance is also required: - All Risk Insurance - The insurance of materials on site is necessary.
8.6.1.6	“Where the contract involves manufacturing and/or fabrication of the Works or part thereof at premises other than the Site, the Contractor shall satisfy the Employer that all materials and equipment for incorporation in the Works are adequately insured during manufacture and/or fabrication. In the event of the Employer having an insurable interest in such Works during manufacture or fabrication then such interest shall be noted by endorsement to the Contractor's policies of insurance.”
9.2.1.3.8	The Contractor committed a corrupt or fraudulent act during the procurement process or the execution of the contract.
9.2.1.3.9	An official or other role player committed any corrupt or fraudulent act during the procurement process or in the execution of the contract that benefited the Contractor.
10	“Dispute resolution shall initially be by means of ad-hoc adjudication as per Clause 10.5.2. Should adjudication not be successful, then the dispute shall be referred to Arbitration under the provisions of Clause 10.7.1.”
10.4.1	The parties may at time agree to settle disputes with the help of an impartial third party
10.5.3	The number of Adjudication Board Members to be appointed is one (1).
	<b>Variations to the Conditions of Contract are:</b>

4.4.2	<p><i>Add the following to Clause 4.4.2 after the last sentence:</i></p> <p>"The Contractor shall not subcontract any part of the Contract without the prior written consent of the Employer's Agent, which consent shall not be unreasonably withheld. A Subcontractor within the jurisdiction of Alfred Nzo DM shall be appointed by the Contractor subject to meeting the requirements of the Client."</p>
4.5.4	<p><i>Replace the contents of Clause 4.5.4 with</i></p> <p>"For this contract he fees, taxes, levies and other charges to be paid by the Contractor in terms of sub-clause 4.5.1.1 will not be refunded by the Employer. The cost thereof shall be deemed to be included in the prices tendered for relevant items in the Bill of Quantities".</p>
5.3.3	<p>Time to instruct commencement of the Works</p> <p><i>Add the following to Clause 5.3.3 after the last sentence:</i></p> <p>"The Contractor shall not commence working until they have an approved project specific health and safety plan in terms of the Occupational Health and Safety Act, 1993: Construction Regulations, 2014 and complied with the initial requirements thereof."</p>
5.12	<p><i>Add the following:</i></p> <p>"In the case of an additional public holiday declared by the State President, a claim for the cost of temporary or hourly-paid workers who would have been actively engaged in the construction work had the day not been declared a public holiday, will be considered by the Employer. Except for proven extra cost, claims for standing time of plant and equipment will not be considered as the cost thereof is deemed to be included in the Contractor's provisional and general items."</p>
5.12.2	<p><i>Replace sub-clause 5.12.2.4 with the following:</i></p> <p>"Any disruption of labour on a regional or national level due to political unrest, organised mass action or related incidents which is considered to be beyond the Contractor's control.</p> <p>Any strike within the confines of the Contractor's company, which may affect this project, will be deemed to be within the Contractor's control."</p>
5.14.1	<p>Practical Completion</p> <p><i>Replace the last sentence of the second paragraph:</i></p> <p>"Should the Employer's Agent ... on the Due Completion Date."</p> <p><i>with the following:</i></p> <p>"Should the Employer's Agent not issue such a list within 14 days, Practical Completion shall be deemed to have been achieved on the said fourteenth day."</p>
5.14.2	<p>Issue of Certificate of Practical Completion</p> <p><i>Replace "the Employer's Agent" in the second line with the following:</i></p> <p>", the Contractor shall notify the Employer's Agent, who shall inspect the Works and the Employer's Agent"</p>

5.14.4	<p>Certificate of Completion</p> <p><i>Replace "the Employer's Agent" in the second and third line of the first paragraph with:</i></p> <p><i>", the Contractor shall notify the Employer's Agent, who shall inspect the works and the Employer's Agent"</i></p>
6.10.4	<p>Delivery, dissatisfaction with and payment of payment certificate</p> <p><i>Replace "28 days" in the seventh line with "30 days".</i></p>
6.11	<p>Variations exceeding 15 per cent</p> <p><i>Replace "15 per cent" in the heading, the marginal heading and the tenth line with "20 per cent".</i></p>
Add the following clause: 6.12	<p><u>Payment for the labour-intensive component of the works:</u> Payment for works identified in the Scope of Work 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.</p> <p><u>Contractor's default in payment to labourers and employees:</u> 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.</p> <p>The Employer may, upon the Contractor defaulting payment, pays 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.</p> <p><i>Applicable labour laws: The Ministerial Determination, 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° R63 of 25 January 2002, shall apply to works described in the scope of work as being labour intensive and which are undertaken by unskilled or semi-skilled workers.</i></p>
Add the following sub-clause: 10.5.4	<p>The decision of the Adjudicator shall be enforceable with immediate effect as a matter of contractual obligation between the parties. However, if the dispute is still unresolved after Adjudication, the matter shall be referred to arbitration or court proceedings, whichever is applicable in terms of the contract.</p>

4.3.3	<p>"The Employer and the Contractor hereby agree, in terms of the provisions of section 37 (2) of the Occupational Health &amp; Safety Act, 1993 (Act 85 of 1993, hereinafter referred to as 'the Act') that the following arrangements and procedures shall apply between them to ensure compliance by the Contractor with the provisions of the Act, namely:</p> <ul style="list-style-type: none"> <li>(a) The Contractor undertakes that the appropriate officials and employees of the Contractor will fully acquaint themselves with all relevant provisions of the Act and the Regulations promulgated in terms of the Act;</li> <li>(b) The Contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the Act and regulations will be fully complied with;</li> <li>(c) The Contractor hereby accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and Regulations, and expressly absolves the Employer from itself being obliged to comply with any of the aforesaid duties, obligations, and prohibitions; with the exception of such duties, obligations and prohibitions expressly assigned to the Employer in terms of the Act and its associated Regulations;</li> <li>(d) The Contractor agrees that any duly authorised official of the Employer shall be entitled to take such steps as may be necessary to ensure that the Contractor has complied with his undertakings as set out more fully in paragraphs (a) and (b) above, which steps may include, but will not be limited to, the right to inspect any appropriate site or premises occupied by the Contractor, or to inspect any appropriate records or Safety Plans held by the Contractor;</li> <li>(e) The Contractor shall be obliged to report forthwith to the Employer any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the Act and regulations, pursuant to work performed in terms of this Contract, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge;</li> <li>(f) The Contractor shall furthermore, in compliance with the Construction Regulations of 2003 (Notice No. R1010, dated 18 July 2003) to the Act: <ul style="list-style-type: none"> <li>(i) Acquaint himself with the requirements of the Employer's health and safety Specification as laid down in regulation 4(1)(a) of the Construction Regulation of 2003, and prepare a suitably and sufficiently documented health and safety plan as contemplated in regulation 5(1) of the Construction Regulation of 2003 for approval by the Employer or his assigned agent. The Contractor's health and safety plan and risk assessment shall be submitted to the employer for approval within 14 days from the date of the Letter of Acceptance and shall be implemented and maintained from the Commencement of the Works.</li> <li>(ii) The Employer, or his assigned agent, reserves the right to conduct periodic audits, as contemplated in the Construction Regulations 2003, to monitor that the Contractor is compliant in respect of his obligations. Failure by the Contractor to comply with requirements of these Regulations shall entitle the Engineer, at the request of the Employer or his Agent, to suspend all or any part of the Works, with no recourse whatsoever by the Contractor for any damages incurred as a result of such suspension,</li> </ul> </li> </ul>
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such time as the Employer or his Agents are satisfied that the issues in which the Contractor has been in default have been rectified."

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4.4.3	<p>1 All specialists' merchants, tradesmen and others executing any work or supplying any goods for which provisional or prime cost sums are provided in the Schedule of Quantities and who are selected for this purpose by the Contractor and the Employer as specified hereafter, shall in the execution of such work be subcontractors of the Contractor and are herein referred to as "Selected Subcontractors".</p> <p>2 The contractual relationship between the Contractor and the selected sub-contractor shall be the same as those which normally apply between contractors and ordinary subcontractors as specified <i>inter alia</i> in clause 3 hereafter.</p> <p>3 Unless another procedure is specified in the Special Conditions of Contract, the procurement of Selected Subcontractors by the Contractor is to be carried out using the legislated Standard Conditions of Tender (as published and amended from time to time by the Construction Industry Development Board).</p> <p>It is intended that the Subcontract Agreement and Provisions of Subcontract Third Edition (2003) Incorporating General Conditions of Sub Contract 2003 for use in accordance with Subcontractors Works of Civil Engineering Construction as provided by the South African Federation of Civil Engineering Contractors be used as the basis of the subcontract between the Contractor and each selected subcontractor</p> <p>The Contractor shall incorporate in the subcontract provisions that:</p> <ul style="list-style-type: none"> <li>(a) In respect of the work of the goods that are subject of the subcontract the Selected Subcontractor undertakes to the Contractor <i>mutatis mutandis</i> the obligations and liabilities as are imposed upon the Contractor to the Employer in terms of the Contract, and hold the Contractor harmless from and indemnifies him against the same and in respect of all claims, demands, lawsuits, damages, costs, charges and expenses whatsoever arising out of or in connection therewith, or arising out or in connection with any failure to perform such obligations or to fulfil such liabilities, and</li> <li>(b) the Selected Subcontractors hold the Contractor harmless from and indemnifies him against: <ul style="list-style-type: none"> <li>(i) shortcomings in the subcontract works if and where the works were designed by the Selected Subcontractor;</li> <li>(ii) defects in the goods if and where the goods were manufactured and/or supplied by the Selected Subcontractor;</li> <li>(iii) any negligence by the Selected Subcontractor; his agents, workmen and servants;</li> <li>(iv) any misuse by the Selected Subcontractor of any Construction Plant, Temporary Works or materials provided by the Contractor for the purposes of the Contract; and</li> <li>(v) any claims as aforesaid</li> </ul> </li> <li>(c) entitles him to pay direct to local and other labourers all payments the selected subcontractor has failed to make to any local and other labourers and to deduct, by way of settlement, the amounts paid by the Contractor from money owing to or that may become owing to selected subcontractor.</li> </ul>
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5.3.1	<p>The documentation required before commencement with Works execution are:</p> <ul style="list-style-type: none"> <li>- Health and Safety Plan (Refer to Clause 4.3)</li> <li>- Initial programme (Refer to Clause 5.6)</li> <li>- Security (Refer to Clause 6.2)</li> <li>- Insurance (Refer to Clause 8.6)</li> <li>- Cash flow projection</li> <li>- Agreement of Indemnity in Terms of Occupational Health and Safety Act 1993</li> </ul>																								
5.3.2	<p>The time to submit the documentation required before commencement with the Works execution is 14 days of receipt of the signed Form of Offer and Acceptance.</p> <p>The commencement of the works shall be subject to the approval required in terms of the applicable Construction Regulations, as detailed in clause 1.1.1.14.</p>																								
5.4.4	<p>“The Contractor shall bear all costs and charges for special and temporary rights of way required by him in connection with access to the Site. The Contractor shall also provide at his own cost any additional facilities outside the Site required by him for the purposes of the Works.”</p>																								
5.8.1	<p>The non-working days are Sundays.</p> <p>The special non-working days are:</p> <ol style="list-style-type: none"> <li>(1) All gazetted public holidays falling outside the year end break.</li> <li>(2) The year end break commencing on 15 December and ending on 5 January</li> </ol>																								
5.12.2.2	<p>No extension of time will be granted in respect of any delays attributed to normal climatic conditions. Normal climatic conditions shall be deemed to include normal rainfall and associated wet conditions and materials, strong winds and extremes of temperature. However, in the event that delays to critical activities exceed the number of working days listed below for each month, then abnormal climatic conditions shall be deemed to exist, and an extension of time may be claimed in accordance with the provisions of Clause 5.12.</p> <p>The number of days quoted below shall be regarded as a fair estimate of the delays to be anticipated and allowed for under normal climatic conditions where inclement weather prevents or disrupts critical work.</p> <table> <tbody> <tr> <td>January</td> <td>4 days</td> </tr> <tr> <td>February</td> <td>4 days</td> </tr> <tr> <td>March</td> <td>4 days</td> </tr> <tr> <td>April</td> <td>4 days</td> </tr> <tr> <td>May</td> <td>4 days</td> </tr> <tr> <td>June</td> <td>2 days</td> </tr> <tr> <td>July</td> <td>2 days</td> </tr> <tr> <td>August</td> <td>2 days</td> </tr> <tr> <td>September</td> <td>2 days</td> </tr> <tr> <td>October</td> <td>4 days</td> </tr> <tr> <td>November</td> <td>4 days</td> </tr> <tr> <td>December</td> <td>4 days</td> </tr> </tbody> </table>	January	4 days	February	4 days	March	4 days	April	4 days	May	4 days	June	2 days	July	2 days	August	2 days	September	2 days	October	4 days	November	4 days	December	4 days
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	<p>Claims for delays for abnormal climatic conditions shall be accompanied by substantiating facts and evidence, which shall be submitted timeously as each day or half-day delay is experienced.</p> <p>It shall be further noted that where the critical path is not affected, no extension of time for abnormal climatic conditions or for any other reason will be entertained.</p>
5.13.1	<p>The penalty for failing to complete the Works is <b>R1000.00</b> per day per day up to a limit of 30 normal working day, upon which automatic termination may be effected by the Employer.</p> <p>A fixed penalty of <b>R 500</b> per occurrence shall be deducted for each and every occurrence of non-compliance with any of the requirements of Section 1500 of the Standard Specifications and Section B1500 of the Scope of Works.</p> <p>In addition a time-related penalty of <b>R 300</b> per day over and above the fixed penalty shall be deducted for non-compliance to rectify any defects in the accommodation of traffic within the allowable time after an instruction to this effect has been given by the Engineer. The Engineer's instruction shall state the allowable time, which shall be the time in hours for reinstatement of the defects. Should the Contractor fail to adhere to this instruction, the time-related penalty shall be applied from the time the instruction was given.</p>
5.16.3	The latent defect period is 10 years.
6.5.1.2.3	The percentage allowances to cover all overhead charges is up to 10%
6.2.1	The security to be provided by the Contractor shall be a performance guarantee of <b>10%</b> of the Contract Sum. The performance guarantee shall contain the wording of the document included in C1.3. In the event that the contractor is unable to provide such a guarantee, a deduction of 10% shall be made to each payment certificate payable to the contractor with the accumulated amount paid out upon achieving Completion.
6.8.2	Contract Price Adjustment <b>is not</b> applicable in this contract.
6.8.3	“Special materials (such as steel products) shall be considered with supporting documentary evidence. Details of special materials are indicated in the Contract Data.”
6.10.1.5	The percentage advance on materials not yet built into the Permanent Works is 80 %.
6.10.2	“Payment to the Contractor for any materials on site shall only be authorized after proof of ownership by the Contractor has been lodged with the Employer's Agent in the form of receipted invoices or other acceptable documents, or if ownership is ceded to the Employer.”
6.10.3	The percentage retention on the amounts due to the Contractor is 10% on each payment. The limit on retention is: 5% of the Contract Price, if a Performance Guarantee is provided, and valid and 10 % of the Contract Price, if a Performance Guarantee is not provided.

6.10.4	<p><i>Add the following to clause 6.10.4:</i></p> <p>Notwithstanding the above, the Engineer shall be empowered to withhold the delivery of the payment certificate until the Contractor has complied with his obligations to report as described in the Scope of Work.</p>
8.2.1	<p>“The Contractor shall protect the Works properly and shall so arrange his operations that the minimum danger and inconvenience are caused to the public and to vehicle and pedestrian traffic. For this purpose he shall, inter alia, provide and maintain sufficient road traffic signs, lights, barricades, fencing and guarding as may be necessary or required by the Engineer or by any act, regulation or statutory authorities.</p> <p>All operations required in connection with the execution and completion of the Works shall, as far as the provisions of the Contract permit, not unnecessarily or in any improper manner encroach upon the use of public roads or upon access to private property, and the Contractor hereby indemnifies the Employer against any claims, demand, damage and costs that may arise in this regard.</p> <p>Compensation for such obligations shall be included in the Contractor’s prices for provisional and general costs, except in as far as provision is made in the specifications for payment in respect of specific items pertaining to these obligations.”</p>
8.6.1.1.2	The value of plant and materials supplied by the Employer to be included in the insurance sum is zero (R0.00)
8.6.1.1.3	The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is zero (0.00) rand.
8.6.1.3	The limit of indemnity for liability insurance will be <b>equal to the project award value</b> for any single claim – the number of claims to be unlimited during the construction and Defects Liability period.
8.6.1.5	<p>In addition to the insurances required in terms of General Conditions of Contract Clauses 8.6.1.1 to 8.6.1.4 the following insurance is also required:</p> <ul style="list-style-type: none"> <li>- All Risk Insurance</li> <li>- The insurance of materials on site is necessary.</li> </ul>
8.6.1.6	“Where the contract involves manufacturing and/or fabrication of the Works or part thereof at premises other than the Site, the Contractor shall satisfy the Employer that all materials and equipment for incorporation in the Works are adequately insured during manufacture and/or fabrication. In the event of the Employer having an insurable interest in such Works during manufacture or fabrication then such interest shall be noted by endorsement to the Contractor’s policies of insurance.”
9.2.1.3.8	The Contractor committed a corrupt or fraudulent act during the procurement process or the execution of the contract.
9.2.1.3.9	An official or other role player committed any corrupt or fraudulent act during the procurement process or in the execution of the contract that benefited the Contractor.

10	"Dispute resolution shall initially be by means of ad-hoc adjudication as per Clause 10.5.2. Should adjudication not be successful, then the dispute shall be referred to Arbitration under the provisions of Clause 10.7.1."
10.4.1	The parties may at time agree to settle disputes with the help of an impartial third party
10.5.3	The number of Adjudication Board Members to be appointed is one (1).
	<b>Variations to the Conditions of Contract are:</b>
4.4.2	<i>Add the following to Clause 4.4.2 after the last sentence:</i>  "The Contractor shall not subcontract any part of the Contract without the prior written consent of the Employer's Agent, which consent shall not be unreasonably withheld. A Subcontractor within the jurisdiction of Alfred Nzo DM shall be appointed by the Contractor subject to meeting the requirements of the Client."
4.5.4	<i>Replace the contents of Clause 4.5.4 with</i>  "For this contract he fees, taxes, levies and other charges to be paid by the Contractor in terms of sub-clause 4.5.1.1 will not be refunded by the Employer. The cost thereof shall be deemed to be included in the prices tendered for relevant items in the Bill of Quantities".
5.3.3	Time to instruct commencement of the Works  <i>Add the following to Clause 5.3.3 after the last sentence:</i>  "The Contractor shall not commence working until they have an approved project specific health and safety plan in terms of the Occupational Health and Safety Act, 1993: Construction Regulations, 2014 and complied with the initial requirements thereof."
5.12	<i>Add the following:</i>  "In the case of an additional public holiday declared by the State President, a claim for the cost of temporary or hourly-paid workers who would have been actively engaged in the construction work had the day not been declared a public holiday, will be considered by the Employer. Except for proven extra cost, claims for standing time of plant and equipment will not be considered as the cost thereof is deemed to be included in the Contractor's provisional and general items."
5.12.2	<i>Replace sub-clause 5.12.2.4 with the following:</i>  "Any disruption of labour on a regional or national level due to political unrest, organised mass action or related incidents which is considered to be beyond the Contractor's control.  Any strike within the confines of the Contractor's company, which may affect this project, will be deemed to be within the Contractor's control."

5.14.1	<p>Practical Completion</p> <p><i>Replace the last sentence of the second paragraph:</i></p> <p>"Should the Employer's Agent ... on the Due Completion Date."</p> <p><i>with the following:</i></p> <p>"Should the Employer's Agent not issue such a list within 14 days, Practical Completion shall be deemed to have been achieved on the said fourteenth day."</p>
5.14.2	<p>Issue of Certificate of Practical Completion</p> <p><i>Replace "the Employer's Agent" in the second line with the following:</i></p> <p>", the Contractor shall notify the Employer's Agent, who shall inspect the Works and the Employer's Agent"</p>
5.14.4	<p>Certificate of Completion</p> <p><i>Replace "the Employer's Agent" in the second and third line of the first paragraph with:</i></p> <p>", the Contractor shall notify the Employer's Agent, who shall inspect the works and the Employer's Agent"</p>
6.10.4	<p>Delivery, dissatisfaction with and payment of payment certificate</p> <p><i>Replace "28 days" in the seventh line with "30 days".</i></p>
6.11	<p>Variations exceeding 15 per cent</p> <p><i>Replace "15 per cent" in the heading, the marginal heading and the tenth line with "20 per cent".</i></p>
6.12 Add the following clause:	<p><u>Payment for the labour-intensive component of the works:</u> Payment for works identified in the Scope of Work 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.</p> <p><u>Contractor's default in payment to labourers and employees:</u> 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.</p> <p>The Employer may, upon the Contractor defaulting payment, pays 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.</p> <p><u>Applicable labour laws:</u> <i>The Ministerial Determination, 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° R63 of 25 January 2002, shall apply to works described in the scope of work as being labour intensive and which are undertaken by unskilled or semi-skilled workers.</i></p>
10.5.4 Add the following sub-clause:	<p>The decision of the Adjudicator shall be enforceable with immediate effect as a matter of contractual obligation between the parties. However, if the dispute is still unresolved after Adjudication, the matter shall be referred to arbitration or court proceedings, whichever is applicable in terms of the contract.</p>

**Clause 42: The additional clauses to the General Conditions of Contract are:**

**EPWP construction**

**CLAUSES APPLICABLE TO EPWP CONTRACTS**

**Payment for the labour-intensive component of the works**

Payment for works identified in the Scope of Work 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.

**Applicable labour laws**

The Ministerial Determination, 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° R63 of 25 January 2002, 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.

## 1 Introduction

1.1 This document contains the standard terms and conditions for workers employed in elementary occupations on a Special Public Works Programme (SPWP). These terms and conditions do NOT apply to persons employed in the supervision and management of a SPWP.

1.2 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 SPWP;
- (c) “worker” means any person working in an elementary occupation on a SPWP;
- (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 SPWP;
- (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.

## 2 Terms of Work

2.1 Workers on a SPWP are employed on a temporary basis.

2.2 A worker may NOT be employed for longer than 24 months in any five-year cycle on a SPWP.

2.3 Employment on a SPWP does not qualify as employment as a contributor for the purposes of the Unemployment Insurance Act 30 of 1966.

## 3 Normal Hours of Work

3.1 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.

3.2 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.

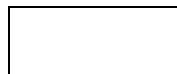
3.3 A task-rated worker may not work more than a total of 55 hours in any week to complete the tasks allocated (based on a 40-hour week) to that worker.

## 4 Meal Breaks

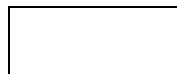
4.1 A worker may not work for more than five hours without taking a meal break of at least thirty minutes duration.

4.2 An employer and worker may agree on longer meal breaks.

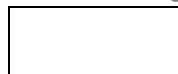
4.3 A worker may not work during a meal break. However, an employer may require a worker to perform duties during a meal break if those duties cannot be left unattended and cannot be performed by another worker. An employer must take reasonable steps to ensure that a worker is relieved of his or her duties during the meal break.



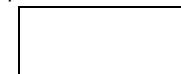
Contractor



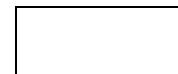
Witness 1



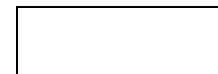
Witness 2



Employer



Witness 1



Witness 2

4.4 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 during the meal break.

## 5 Special Conditions for Security Guards

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

5.2 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.

## 6 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.

## 7 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").

## 8 Work on Sundays and Public Holidays

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

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

8.3 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.

8.4 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.

## 9 Sick Leave

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

9.2 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.

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

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

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

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

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

9.8 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.

9.9 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.

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9.10 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.

## 10 Maternity Leave

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

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

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

10.4 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.

10.5 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.

10.6 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.

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

## 11 Family responsibility leave

11.1 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.

## 12 Statement of Conditions

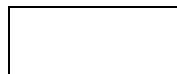
12.1 An employer must give a worker a statement containing the following details at the start of employment –

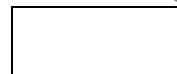
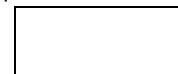
- (a) The employer's name and address and the name of the SPWP;
- (b) The tasks or job that the worker is to perform; and
- (c) the period for which the worker is hired or, if this is not certain, the expected duration of the contract;
- (d) the worker's rate of pay and how this is to be calculated;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

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

12.3 An employer must supply each worker with a copy of these conditions of employment. **13 Keeping Records**

13.1 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.

13.2 The employer must keep this record for a period of at least three years after the completion of the SPWP.

## 14 Payment

14.1 An employer must pay all wages at least monthly into a bank account.

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

14.3 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.

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

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

14.6 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.

14.7 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.

14.8 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

14.9 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.

14.10 Payment will be not be made to contractor, unless monthly report reflects time and number of labour utilized on site as per Labour Intensive Requirement

## 15 Deductions

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

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

15.3 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.

15.4 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
- (f) Pay the employer or any other person for having been employed. **16**

## Health and Safety

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

16.2 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 SPWP;
- (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.

## 17 Compensation for Injuries and Diseases

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

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

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

17.4 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.

## 18 Termination

18.1 The employer may terminate the employment of a worker for good cause after following a fair procedure.

18.2 A worker will not receive severance pay on termination.

18.3 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.

18.4 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.

18.5 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.

## 19 Certificate of Service

19.1 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 SPWP on which the worker worked;
- (d) The work performed by the worker;
- (e) Any training received by the worker as part of the SPWP; (f) The period for which the worker worked on the SPWP;
- (g) Any other information agreed on by the employer and worker.

### Part 2: Data provided by the Contractor

The contractor is advised to read the *general conditions of contract for construction works, third edition, 2015* published by the South African institution of civil engineering, private bag x200, halfway house, 1685, in order to understand the implications of this data which is required to be completed. Copies of these conditions of contract may be obtained from [www.saice.org.za](http://www.saice.org.za).

Each item of data given below is cross-referenced to the clause in the Conditions of Contract to which it mainly applies.

Clause	Data								
1.1.1.9	The name of the Contractor is: .....								
1.2.1.2	The address of the Contractor is: Address (physical): ..... Address (postal): ..... Telephone: ..... Facsimile: ..... e-mail: .....								
1.1.1.14	The time for achieving Practical Completion is as stipulated under Part C3.1A, Clause 8.								
6.2.1	The security to be provided by the Contractor shall be one of the following: <table border="1" data-bbox="350 862 1478 1185"> <thead> <tr> <th>Type of security</th> <th>Contractor's Choice. Indicate "Yes" or "No"</th> </tr> </thead> <tbody> <tr> <td>Deduction of 10% of the contract sum incl. VAT from the 1<sup>st</sup> certificate</td> <td></td></tr> <tr> <td>Cash deposit of 10% of the Contract Sum plus retention of 10% of the value of the Works up to a maximum of 5%.</td> <td></td></tr> <tr> <td>Fixed Performance guarantee of .10% of the Contract Sum plus retention of 10% of the value of the Works up to a maximum of 5%.</td> <td></td></tr> </tbody> </table>	Type of security	Contractor's Choice. Indicate "Yes" or "No"	Deduction of 10% of the contract sum incl. VAT from the 1 <sup>st</sup> certificate		Cash deposit of 10% of the Contract Sum plus retention of 10% of the value of the Works up to a maximum of 5%.		Fixed Performance guarantee of .10% of the Contract Sum plus retention of 10% of the value of the Works up to a maximum of 5%.	
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Cash deposit of 10% of the Contract Sum plus retention of 10% of the value of the Works up to a maximum of 5%.									
Fixed Performance guarantee of .10% of the Contract Sum plus retention of 10% of the value of the Works up to a maximum of 5%.									
6.5.1.2.3	The maximum percentage allowance to cover overhead charges is 15%.								

### C1.3 PERFORMANCE BOND

The performance guarantee is to contain the wording of the pro-forma document included in the General Conditions of Contract for Construction Works, Third Edition, 2015, published by the South African institution of civil engineering. Copies of these conditions of contract may be obtained from the South African Institution of Civil Engineering, Private Bag x200, Halfway House, 1685, at [www.saice.org.za](http://www.saice.org.za).

Herewith a copy of the pro-forma document.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**Appendix 3****General Conditions of Contract for Construction Works, Third Edition (2015)****PRO FORMA****PERFORMANCE GUARANTEE**

For use with the General Conditions of Contract for Construction Works, Third Edition (2015).

**GUARANTOR DETAILS AND DEFINITIONS**

“Guarantor” means: .....

Physical address: .....

“Employer” means: .....

“Contractor” means: .....

“..... Employer's Agent” means: .....

“Works” means: .....

“Site” means: .....

“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 accepted amount inclusive of tax of R .....

Amount in words: .....

“Guaranteed Sum” means: The maximum aggregate amount of R .....

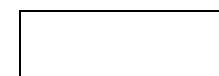
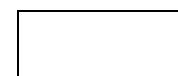
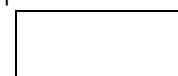
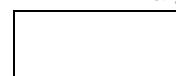
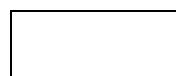
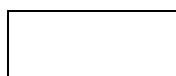
Amount in words: .....

Type of Performance Guarantee: ..... (*Insert Variable or Fixed*)

“Expiry Date” means: ..... (*Give date*) or any other later date set by the Contractor and/or Employer provided such instruction is received prior to the Expiry Date as indicated here.

**CONTRACT DETAILS**

Employer's Agent issues: Interim Payment Certificates, Final Payment Certificate and the Certificate of Completion of the Works as defined in the Contract.



## 1. VARIABLE PERFORMANCE GUARANTEE

1.1 Where a Variable Performance Guarantee has been selected, the Guarantor's liability shall be limited during the following periods to diminishing amounts of the Guaranteed Sum as follows:

1.1.1 From and including the date of signing the Performance Guarantee up to and including the date of the interim payment certificate certifying, for the first time, more than 50% of the Contract Sum:

R.....

(Amount in words .....)

1.1.2 From the day following the date of the said interim payment certificate up to and including the Expiry Date, or the date of issue by the Employer's Agent of the Certificate of Completion of the Works, whichever occurs first:

R.....

(Amount in words .....)

1.2 The Employer's Agent and/or the Employer shall advise the Guarantor in writing of the date on which the interim payment certificate certifying, for the first time, more than 50% of the Contract Sum, has been issued and the date on which the Certificate of Completion of the Works has been issued.

## 2. FIXED PERFORMANCE GUARANTEE

2.1 Where a Fixed Performance Guarantee has been selected, the Guarantor's liability shall be limited to the amount of the Guaranteed Sum.

2.2 The Guarantor's period of liability shall be from and including the date on which the Performance Guarantee is signed, up to and including the Expiry Date, or the date of issue by the Employer's Agent of the Certificate of Completion of the Works, or the date of payment in full of the Guaranteed Sum, whichever occurs first.

2.3 The Employer's Agent 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. CONDITIONS APPLICABLE TO VARIABLE AND FIXED PERFORMANCE GUARANTEES

3.1 The Guarantor hereby acknowledges that:

3.1.1 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.

3.1.2 Its obligation under this Performance Guarantee is restricted to the payment of money.

3.2 Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 3.2.1 to 3.2.3:

3.2.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Employer's Agent in an Interim or 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 3.2.2;

3.2.2 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 3.2.1 and the sum certified has still not been paid;

3.2.3 A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 3.2.

3.3 Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, 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:

3.3.1 the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 3.3; or

3.3.2 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 3.3; and

3.3.3 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.

3.4 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 3.2 and 3.3 shall not exceed the Guarantor's maximum liability in terms of 1.1 or 2.1.

3.5 Where the Guarantor has made payment in terms of 3.3, 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.

3.6 Payment by the Guarantor in terms of 3.2 or 3.3 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.

3.7 Payment by the Guarantor in terms of 3.3 will only be made against the return of the original Performance Guarantee by the Employer.

3.8 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer may consider 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.

3.9 The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.

3.10 This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 1.1.2 or 2.2, 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.

3.11 This Performance Guarantee, with the required demand notices in terms of 3.2 or 3.3, shall be regarded as a liquid document for the purposes of obtaining a court order.

3.12 Where this Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrates' 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.

**Signed at** .....

**Date** .....

**Guarantor's signatory (1)** .....

**Capacity** .....

**Guarantor's signatory (2)** .....

**Capacity** .....

**Witness signatory (1)** .....

**Witness signatory (2)** .....

C1.4 **CESSION OF OWNERSHIP****PRO FORMA CESSION OF OWNERSHIP**

TO: .....(CONTRACTOR)

SUBJECT : BID No.: CONSTRUCTION OF THALENI ACCESS ROAD AND BRIDGES PHASE 1 :  
THALENI BRIDGE :WMM LM 00021 T BR**MATERIALS SUPPLIED TO SITE**

In order to facilitate payment for materials on site in terms of Clause 6.10.(2) of the General Conditions of Contract, it is hereby confirmed that, although materials may have been supplied on Credit to

.....(Contractor)  
ownership of such materials, when delivered for use in the above Contract will vest with

.....(Contractor)

In the event of such materials being delivered on site or any authorised extended site in terms of the Contract, ownership thereof will then vest with .....  
(the Employer) in terms of Clause 8.2.(1) of the said General Conditions of Contract.

Yours faithfully

(SUPPLIER)

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## C 1.5 FORM 1: OVERALL PROJECT WORKER SCHEDULE

## BENEFICIARY LIST

Name of Contractor

Project Name

Project Number

Month:

Youth = 35yrs and less

Number of workers	Surname	Initials	Name	ID Number	Date of Birth	Male/Female	Has Disability (Y/N)	Is Youth (Y/N)	Education Level*	Date Start	Contact Number
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											

Signature of CLO

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**C 1.6 FORM 2: MONTHLY PAYMENT REGISTER FORM (LOCAL LABOURERS ONLY)**

## PAYMENT REGISTER

Contractor Name  
Period  
Project Number  
Month:

---

Signature of CLO ???

Signature of Contractor to verify accuracy

**Signature of Consultant**

**Signature of Contractor for receipt of copies**

1

---

**Contractor**

\_\_\_\_\_

---

***Witness 1***

1.

---

***Witness 2***

ANSWER

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***Employer***

Page |

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***Witness 1***

10

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***Witness 2***

## **C 1.7 FORM 3: DAILY SITE ATTENDANCE REGISTER FORM**

## DAILY SITE ATTENDANCE REGISTER

**Name of Contractor  
Project Name**

**Project Number**  
**Month:**

1 = At Work  
SL = Sick Leave

A = Absent  
P = Public Holiday

L = Leave  
2 = Training

SC = Site Closed

**Validation: Cannot be more than 23 days per person per month.**

Month:	Surname	Initials	ID Number	Birth Date	Rate per day (R)	Leave												Training												Total Work days	Total Training Days	Total work days & training days		
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
1																																0	0	0
2																																0	0	0
3																																0	0	0
4																																0	0	0
5																																0	0	0
6																																0	0	0
7																																0	0	0
8																																0	0	0
9																																0	0	0
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14																																0	0	0
15																																0	0	0
15	<b>TOTALS</b>																														<b>TOTALS</b>	0	0	0

Signature of CLO

### Week 1: Signature of Contractor

Validation: Total work days 0  
Total training days 0

---

Week 1 -2: Signature of Contractor Organisation

---

#### Week 3-4: Signature of Contractor Organisation

## Week 2: Signature of Contractor

### Week 3: Signature of Contractor

Total work days	
+ training days	0
Variance	0
Variance must	
be 0	

**Contractor**

*Witness 1*

*Witness 2*

*Employer*

Page 1

*Witness 2*

## C 1.8 FORM 4: LABOUR MONTHLY SUMMARY SHEET

## LABOUR MONTHLY SUMMARY SHEET

Name of Contractor  
 Project Name  
 Project Number  
 Applicable Month

No of Working Days: Maximum including training = 23 days per month

Number of workers	Surname	Initials	First Name	ID Number	Birth Date	(M)ale / (F)emale	(D)isabled	Rate per day	Number of days worked this month	Number of training days this month	Total amount paid to beneficiary	Course name	Course Code
1											0		
2											0		
3											0		
4											0		
5											0		
6											0		
7											0		
8											0		
9											0		
10											0		
11											0		
12											0		
13											0		
14											0		
15											0		
16											0		
17											0		
18											0		
19											0		
20											0		
20	Totals for month										0	0	0

Signature Consultant

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**C1.9 CERTIFICATE OF AUTHORITY FOR SIGNATORY TO AGREEMENT IN TERMS OF OCCUPATIONAL HEALTH AND SAFETY ACT 1993 (ACT No 85 OF 1993 AS UPDATED IN GOV. GAZETTE 7721 OF 18 JULY 2003)**

The signatory for the company in terms of the above-mentioned Act shall confirm his / her authority thereto by attaching to this page a duly signed and dated copy of the relevant resolution of the Board of Directors.

An example is given below:

"By resolution of the Board of Directors passed at a meeting held on .....

Mr/Ms ..... whose signature appears

below, has been duly authorised to sign the AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT 1993 (ACT 85 OF 1993 as updated) on behalf

of.....

SIGNED ON BEHALF OF THE COMPANY:.....

IN HIS/HER CAPACITY AS:.....

DATE:.....

SIGNATURE OF SIGNATORY:.....

WITNESS: 1..... 2.....

NAME (IN CAPITALS) 1..... 2.....

**C1.10 AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT 1993  
(ACT NO. 85 OF 1993, AS UPDATED IN GOVERNMENT GAZETTE 7721 OF 18 JULY 2003)**

THIS AGREEMENT is made at ..... on this the ..... day of ..... in the year ..... between

the WINNIE MADIKIZELA-MANDELA LOCAL MUNICIPALITY

(hereinafter called "the Employer") of the one part, herein represented by

..... in his/her capacity as .....

and delegate of the Employer in terms of the Employer's standard powers of delegation pursuant to the provisions of Act No 7 of 1998.

and .....

(hereinafter called "the Mandatory") of the other part, herein represented by

..... in his/her capacity as .....

and being duly authorised by virtue of a resolution appended hereto as Annexure A.

WHEREAS the Employer is desirous that certain works be constructed, viz.

**CONTRACT No.: CONSTRUCTION OF THALENI ACCESS ROAD AND BRIDGES PHASE 1 : THALENI BRIDGE:**

**WMM LM 00021 T BR : MIG** and has accepted a tender by the Mandatory for the construction, completion & maintenance of such works and whereas the Employer and the Mandatory have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Mandatory with the provisions of the Occupational Health and Safety Act 1993 (Act 85 of 1993 as updated);

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 1 The Mandatory shall execute the work in accordance with the contract documents pertaining to this contract.
- 2 This Agreement shall hold good from its commencement date, which shall be the date determined under Subclause 5.4.1 of the Contract Data, to either;
  - a) the date of the final certificate issued in terms of Subclause 5.16.1 of the General Conditions of Contract (hereinafter referred to as "the GCC"), or
  - b) the date of termination of the Contract in terms of Subclause 9.2.1 of the GCC.
- 3 The Mandatory declares himself/herself to be conversant with the following:-
  - a) All the requirements, regulations and standards of the Occupational Health and Safety Act (Act 85 of 1993 as updated), 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 mandatories 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 Mandatory and to all his/her sub contractors.

4 In addition to the requirements of Clause 8.2 of the GCC (as amended by the Contract Data contained in Volume 3 of the contract documents pertaining to this Contract) and all relevant requirements of the above mentioned Volume 3, the Mandatory 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.

5 The mandatory is responsible for the compliance with the Act by all his/her sub-contractors, whether or not selected and/or approved by the Employer.

6. The mandatory warrants that all his/her own and his/her sub-contractors workmen are covered in terms of the Compensation for Occupational Injuries and Diseases Act 1993 which cover shall remain in force whilst any such workmen are present on site. A letter of good standing from the Compensation Commissioner to this effect must be produced to the Employer upon signature of the agreement.

7. The mandatory undertakes to ensure that he/her and/or subcontractors and/or their respective employers will at all times comply with the following conditions:

- a) The mandatory shall assume the responsibility in terms of Section 16.1 of the Occupational Health and Safety Act. The mandatory shall not delegate any duty in terms of Section 16.2 of this Act without the prior written approval of the Employer. If the mandatory obtains such approval and delegates any duty in terms of section 16.2 a copy of such written delegation shall immediately be forwarded to the Employer.
- b) All incidents referred to in the Occupational Health and Safety Act shall be reported by the mandatory to the Department of Labour as well as to the Employer. The Employer will further be provided with copies of all written documentation relating to any incident.
- c) The Employer hereby obtains an interest in the issue of any formal enquiry conducted in terms of section 32 of the Occupational Health and Safety Act into any incident involving the mandatory and/or his/her employees and/or his/her sub-contractors.

In witness thereof the parties hereto have set their signatures hereon in the presence of the subscribing witnesses:

SIGNED FOR AND ON BEHALF OF THE EMPLOYER:.....

WITNESS: 1..... 2.....

NAME (IN CAPITALS) 1..... 2.....

SIGNED FOR AND ON BEHALF OF THE MANDATORY:.....

WITNESS: 1..... 2.....

NAME (IN CAPITALS) 1..... 2.....

**C1.11 CERTIFICATE OF AUTHORITY FOR SIGNATORY TO AGREEMENT IN TERMS OF THE CONSTITUTION OF THE REPUBLIC OF SOUTH AFRICA, ENVIRONMENTAL CONSERVATION ACT AND ENVIRONMENTAL MANAGEMENT ACT**

The signatory for the company in terms of the above-mentioned Act shall confirm his or her authority thereto by attaching to this page a duly signed and dated copy of the relevant resolution of the Board of Directors.

An example is given below:

"By resolution of the Board of Directors passed at a meeting held on ..... ,  
Mr./Ms ..... whose signature appears below, has been  
duly authorised to sign the AGREEMENT IN TERMS OF THE CONSTITUTION OF THE REPUBLIC OF  
SOUTH AFRICA, ENVIRONMENTAL CONSERVATION ACT AND ENVIRONMENTAL MANAGEMENT  
ACT on behalf of .....(the Contractor)

SIGNED ON BEHALF OF THE COMPANY .....

IN HIS/HER CAPACITY AS .....

DATE

SIGNATURE OF SIGNATORY .....

Witness ..... Witness .....

Name ..... Name .....

**C1.12 AGREEMENT IN TERMS OF THE CONSTITUTION OF THE REPUBLIC OF SOUTH AFRICA,  
ENVIRONMENTAL CONSERVATION ACT AND ENVIRONMENTAL MANAGEMENT ACT**

THIS AGREEMENT made at.....

On this the ..... day of ..... in the year .....

Between the in WINNIE MADIKIZELA-MANDELA LOCAL MUNICIPALITY (hereinafter called "the Employer") of the one part,

herein represented by ..... in his/her capacity as .....

and delegate of the Employer in terms of the Employer's standard powers of delegation

and.....

(hereinafter called "the Mandatory") of the other part,

herein represented by ..... in his/her capacity as .....

and being duly authorised by virtue of a resolution appended hereto as Annexure B;

WHEREAS the Employer is desirous that certain works be constructed, viz.

**CONTRACT NO.: CONSTRUCTION OF THALENI ACCESS ROAD AND BRIDGES PHASE 1 : THALENI BRIDGE :**

**WMM LM 00021 T BR MIG** and has accepted a tender by the Mandatory for the construction, completion & maintenance of such works, and whereas the Employer and the Mandatory have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Mandatory with the provisions of the Constitution of the Republic of South Africa, the Environmental Conservation Act and the Environmental Management Act;

NOW THEREFORE THIS AGREEMENT WITNESSES AS FOLLOWS:

1. The Mandatory shall execute the work in accordance with the contract documents pertaining to this Contract.
2. This Agreement shall hold good from its commencement date, which shall be the date determined under Subclause 5.4.1 of the Contract Data to either:
  - a) the date of the final certificate issued in terms of Subclause 5.16.1 of the General Conditions of Contract (hereinafter referred to as "the GCC"), as contained in this volume of the contract documents pertaining to this Contract, or
  - b) the date of termination of the Contract in terms of Subclause 9.2.1 of the GCC.
3. The Mandatory declares himself/herself to be conversant with the following:-

All the requirements, regulations and standards of Section 24 of the Constitution of the Republic of South Africa (Act No 108 of 1996)<sup>2</sup> \* the Environmental Conservation Act (Act No 73 of 1989) and the National Environmental Management Act (Act No 107 of 1998), hereinafter referred to as "The Act", together with its amendments of The Act.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## CONSTRUCTION OF THALENI ACCESS ROAD AND BRIDGES PHASE 1 : THALENI BRIDGE

4. In addition to the requirements of Clause 8.2 of the GCC (as amended in the Contract Data contained in Volume 3 of the contract documentation pertaining to this Contract) and all relevant requirements of the above mentioned Volume 3, the Mandatory agrees to execute all the works forming part of this Contract and to operate and utilize all machinery, plant and equipment in accordance with an Environmental Management Plan.
5. The Mandatory is responsible for the compliance with the Act and Environmental Management Plan by all his/her sub-contractors, whether or not selected and/or approved by the Employer.

\* Refer to note <sup>2</sup> overleaf for Section 24 of the Constitution.

<sup>2</sup>Environment: Extract from Section 24 of the Constitution of the Republic of South Africa.

24. Everyone has the right –

- (a) to an environment that is not harmful to their health or well-being; and
- (b) to have the environment protected, for the benefit of present and future generations, through reasonable legislative and other measures that – (i) prevent pollution and ecological degradation;
- (ii) promote conservation; and
- (iii) secure ecologically sustainable development and use of natural resources while promoting justifiable economic and social development.

In witness thereof the parties hereto have set their signatures hereon in the presence of the subscribing witnesses:

SIGNED FOR AND ON BEHALF OF THE EMPLOYER:.....

WITNESS: 1..... 2.....

NAME (IN CAPITALS)1..... 2.....

SIGNED FOR AND ON BEHALF OF THE MANDATORY:.....

WITNESS: 1..... 2.....

NAME (IN CAPITALS)1..... 2.....

**PART C2: PRICING INSTRUCTIONS**

## C2.1 PRICING INSTRUCTIONS

- 1) The Conditions of Contract, the Contract Data, the Specifications (including the Project Specifications) and the Drawings shall be read in conjunction with the Bill of Quantities.
- 2) The Bill comprises items covering the Contractor's profit and costs of general liabilities and of the construction of Temporary and Permanent Works.

Although the Tenderer is at liberty to insert a rate of his own choosing for each item in the Bill, he should note the fact that the Contractor is entitled, under various circumstances, to payment for additional work carried out and that the Engineer is obliged to base his assessment of the rates to be paid for such additional work on the rates the Contractor inserted in the Bill. Clause 8 of each Standardized Specification, and the measurement and payment clause of each Particular Specification, read together with the relevant clauses of the Project Specifications, all set out which ancillary or associated activities are included in the rates for the specified operations.

- 3) Descriptions in the Bill of Quantities are abbreviated and may differ from those in the Standardized and Project Specifications. No consideration will be given to any claim by the Contractor submitted on such a basis. The Bill has been drawn up generally in accordance with the latest issue of Civil Engineering Quantities. Should any requirement of the measurement and payment clause of the appropriate Standardized or Project Specification(s) be contrary to the terms of the Bill or, when relevant, to the Civil Engineering Quantities, the requirement of the appropriate Standardized, Project, or Particular Specification as the case may be, shall prevail.
- 4) Unless stated to the contrary, items are measured net in accordance with the Drawings without any allowance having been made for waste.
- 5) The amounts and rates to be inserted in the Bill of Quantities shall be the full inclusive amounts to the Employer for the work described under the several items. Such amounts shall cover all the costs and expenses that may be required in and for the construction of the work described, and shall cover the costs of all general risks, profits, taxes (but excluding value-added tax), liabilities and obligations set forth or implied in the documents on which the Tender is based.
- 6) An amount or rate shall be entered against each item in the Bill of Quantities, whether or not quantities are stated. An item against which no amount or rate is entered will be considered to be covered by the other amounts or rates in the Bill.

The Tenderer shall also fill in a rate against the items where the words "rate only" appear in the amount column. Although no work is foreseen under these items and no quantities are consequently given in the quantity column, the tendered rates shall apply should work under these items actually be required.

Should the Tenderer group a number of items together and tender one sum for such group of items, the single tendered sum shall apply to that group of items and not to each individual item, or should he indicate against any item that full compensation for such item has been included in another item, the rate for the item included in another item shall be deemed to be nil.

The tendered rates, prices and sums shall, subject only to the provisions of the Conditions of Contract, remain valid irrespective of any change in the quantities during the execution of the Contract.

7) The quantities of work as measured and accepted and certified for payment in accordance with the Conditions of Contract, and not the quantities stated in the Bill of Quantities, will be used to determine payments to the Contractor. The validity of the Contract shall in no way be affected by differences between the quantities in the Bill of Quantities and the quantities certified for payment. Ordering of materials is not to be based on the Bill of Quantities.

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

Unit: The unit of measurement for each item of work as defined in the Standardized, Project or Particular Specifications

Quantity: The number of units of work for each item

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

Amount: The quantity of an item multiplied by the tendered rate of the (same) item

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

9) The units of measurement indicated in the Bill of Quantities are metric units. The following abbreviations may appear in the Bill of Quantities:

mm = millimetre m = metre

km = kilometre

km-pass = kilometre-pass

$m^2$  = square metre

$m^2$ -pass = square metre-pass

ha =

hectare

$m^3$  = cubic metre

$m^3$ -km = cubic metre-kilometre

KW =

kilowatt

kN = kilonewton

kg = kilogram

t = ton (1 000 kg)

% = percent

MN = meganewton

MN-m = meganewton-metre

PC Sum = Prime Cost Sum

Prov Sum = Provisional Sum

10) Expanded Public Works Programme (EPWP) Implications

Those parts of the contract to be constructed using labour-intensive methods have been marked in the Schedule of Quantities or Bill of Quantities with the letters LI in a separate column filled in 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 work, is a variation to the contract. The items marked with the 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.



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.

- 11) The cost of all samples and tests as may be required to ascertain and check the quality of materials and workmanship or any part of the works are deemed to be included in the relevant rates in the Bill of Quantities. The Contractor shall at his/her own expense take levels and prepare cross sections as required for the measurement and computation of excavation and fill quantities etc.
- 12) Value Added Tax (VAT) shall not be included in the individual rates but is to be added as a total at the end of the summary.
- 13) All materials to be provided by the Contractor will be SABS, ISO or JASWIC approved where such a specification exists, whether specifically stated in the schedule or not.
- 14) Where a particular make of item is specified, the words "or similar approved" shall mean approval by the Engineer in writing.

C2.2 Bill of Quantities

**NB** The BOQ must be completed in full using BLACK INK and the summary sheet completed and signed.

**BILL OF QUANTITIES ISSUED SEPERATELY- TO BE BOUND INTO THE DOCUMENT IN THIS SPACE**

**DRAFT**

## PART C3: SCOPE OF WORK

DRAFT

**3.1: DESCRIPTION OF THE WORKS**

**C3.1 Description of the Works**
**C3.1.1 Employer's Objectives and Overview of the Works**

This project comprises of the construction of 1km gravel access road including earthworks and stormwater facilities and a prefabricated steel bridge ( Mabey type or similar approved) with abutments, piers, stormwater management and erosion protection.

- The constructed road will conform to the UTG design guidelines wherever possible;
- Topsoil and grass on the existing verges and shoulders will be removed, stockpiled and later used for the rehabilitation (topsoiling and grassing) of the rehabilitated shoulders;
- A minimum width of 8 meters will be cleared and grubbed for construction purposes;
- Where appropriate, excavated material from the road prism will be used for cut-to-fill purposes, as well as for the construction and fill to the shoulders of the road;
- Construction of lined and unlined side drains and mitre drains;
- Supply and installation of stormwater open drains and/or pipes
- The in-situ material will be used as sub-grade, and will be ripped and re-compactated to a density of 93% Mod AASHTO;
- A 150mm thick wearing layer will be constructed by using G5 materials from commercial sources. The wearing course will be compacted to 95% Mod AASHTO;
- Provision of barriers at dead ends;
- The shoulders will be shaped and finished off with topsoil;
- Road signage and markings will be provided at intersections and critical sections only
- Chemical stabilisation of layers in the steep areas.
- Gabions for retaining embankments and for erosion protection

**C3.1.2 Description of Site and Access**

THALENI ACCESS ROAD is situated in Ward 16 of Winnie Madikizela-Mandela Local Municipality. The project area is approximately 35 km northwest of Bizana town.

Project co-ordinates:

The project co-ordinates of the proposed bridge and approach road are as follows:

Lat 30°43'00.07" S Long 29°40'36.60" E

**C3.1.3 Extent of the Works**

The scope of the principal contract includes the following activities:

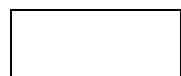
**C3.1.3.1 Roadworks**

(i) Extent

The contract consists of the site establishment, site clearing, bulk earthworks, rip & re-compactating roadbed, drainage structures, importation of gravel wearing course and appurtenant works.

The length of the proposed access road is approximately 1km

(ii) Pavement Design



Wearing course - 150 mm Natural or Crushed Gravel (Class E gravel wearing course) compacted to 95% of modified AASHTO density.

Selected layers ( provisional) – 150mm G7 material compacted to 95% modified AASHTO density

Subgrade - 150 mm minimum in-situ material compacted to 93% of modified AASHTO density.

25MPa concrete slab with Ref Mesh 617 (200x200x10 dia) on approaches and steep areas

(iii) **Cross Section**

5m wide roadway with 2% camber and crossfall at significant curves

(iv) **Stormwater crossings** will be constructed using round pipes ( min. 75S)

(v) **Stream or donga crossings** will be constructed using precast portal culverts

### **C3.1.3.2 Structures**

There are several drainage structures to be constructed under this contract and are as follow:

(i) **Several 600mm diameter pipe culverts;**

(ii) **30m long, 6m high, single carriageway prefabricated steel bridge with abutments, wingwalls and piers**

### **C3.1.3.3 Services**

The services affected are neighbouring Households, sanitation infrastructure, electrical poles and existing and/or new water mains.

### **C3.1.4 Other Simultaneous Contracts**

None.

### **C3.1.5 PLANNING AND PROGRAMMING**

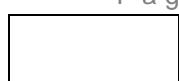
The time for completion of this Contract is 10 months.

The Contractor shall submit his programme within the time stated in the Contract Data to the Engineer in bar chart form showing clearly, in addition to the requirements of Clause 15 of the General Conditions of Contract, the following:

- The various stages of work planned to be completed per month to suite the overall programme.
- Critical path activities
- Anticipated value of work to be done during each month.
- His labour resources schedule which must distinguish between the Contractor's permanent labour and his temporary local labour employment.
- The lead time for training local labour if required.

When drawing up his programme, the Contractor shall also, *inter alia*, take into consideration and make allowance for:

- Expected weather conditions and their effects (e.g. for surfacing and grading work).
- The requirements and effects of employing labour intensive construction methods.



- The accommodation and safeguarding of public access and traffic.
- Possible presence of other contractors on site.
- All other actions required in terms of this document.

Should the Contractor fall behind his programme he shall produce a revised programme showing the modifications to the original programme necessary to ensure completion of the Works, or any part thereof, within the time for completion as defined or any extended time granted.

Failure to produce a revised programme may prejudice the Contractor in any claim for an extension of time.

### **C3.1.5 TEMPORARY WORKS**

#### **C3.1.5.1 SPECIAL WATER HAZARDS CONTROL**

It should be noted that certain areas of the Works are fairly low lying and due to blocked and inadequate stormwater control structures, these areas are prone to flooding and ponding during and subsequent to rainy periods.

#### **C3.1.5.2 OTHER SERVICES (TELKOM, ELECTRICITY, ETC)**

Items have been allowed in the Bill of Quantities for dealing with and protecting existing services where they are known.

The Contractor will, however, ensure that prior to construction all the necessary Record Drawings and Way-leaves for all services have been obtained and verified on site by the relevant Service Providers in his presence. The Contractor must request in writing the relevant Official to indicate the said services at least 48 hours prior to commencement of work, after which the responsibility rests with the Service Department if the services are not indicated to the Contractor as requested.

The Contractor shall take whatever extra precautions are required to protect all existing services from damage during the period of the Contract. Any damage to existing services indicated by the relevant service providers or other damage as a result thereof, shall be for the Contractor's account.

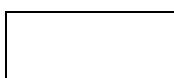
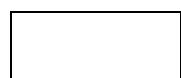
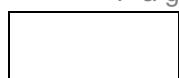
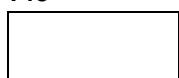
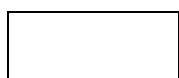
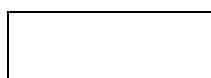
#### **C3.1.5.3 SURVEY BEACONS AND BENCHMARKS**

The Contractor shall be responsible for the preservation of all land survey, erf or other pegs, benchmarks and beacons. If damage or disturbance of any such pegs or beacons is caused by the operations of the Contractor or his subcontractors the pegs are to be replaced by a Registered Land Surveyor at the cost of the Contractor. Benchmarks will be replaced by the Engineer at the Contractor's expense.

Information regarding the position of all such pegs will be made available to the Contractor by the Engineer on request.

The Contractor is to ensure that no spoil is placed over an erf peg or benchmarks and that these are adequately protected for the full duration of the Contract.

Where disturbances of boundary pegs is unavoidable due to excavation or other operations adjacent to the pegs, the Contractor shall advise the Engineer or his Representative immediately, and agreement is to be reached that the disturbance of the peg is unavoidable and a strict record of such disturbed pegs is to be kept. Such pegs are to be replaced by a Registered Land Surveyor as described above and the Contractor is to submit proof of the cost of replacement of pegs. The

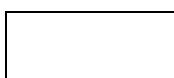







Contractor will be reimbursed on a basis pro-rata to the total cost of peg replacement determined on completion of the Works.

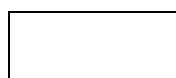
#### C3.1.5.4 TIDYING UP OF THE WORKS

The Contractor shall take note that progressive and systematic finishing and tidying will form an essential part of this contract. On no account shall spoil, rubble, materials, equipment or unfinished operations be allowed to accumulate in such a manner as to unnecessarily be a hindrance to or impede the activities of other contractors or service providers or public. In the event of this occurring, the Employer shall have the right to withhold payment for as long as may be necessary in respect of the relevant works in the area(s) concerned.

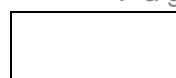
Upon completion of the Works or any portion thereof, the ground, fences, gates and any structures that have been interfered with are to be carefully restored to their original condition and all rubbish, tools, tackle, plant and material must be removed so as to leave the Site in a clean and orderly condition. No additional payment shall be made for work set out above.



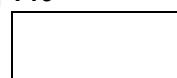
Contractor



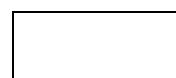
Witness 1



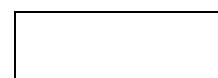
Witness 2



Employer



Witness 1



Witness 2

**C3.2: ENGINEERING****C3.2.1 DESIGN SERVICES AND ACTIVITY MATRIX****Works designed by, per design stage**

Concept, feasibility and overall process:	Employer
Basic engineering and detail layout to tender stage:	Engineer
Final design to approve for construction stage:	Engineer
Temporary works of Contractor:	Contractor
Preparation of as-built drawings:	Contractor

**C3.2.2 DRAWINGS**

The drawings listed below are attached in order to give an overview of the project.

Additional construction drawings will, in terms of Clause 5.9 of the General Conditions of Contract (2010), be issued to the Contractor by the Engineer/Employer on the commencement date and from time to time as required.

The reduced drawings that form part of the tender documents shall be used for tender purposes only. The Contractor will be supplied with 3 sets of unreduced paper prints of each drawing free of charge. Any additional prints will be for the account of the Contractor.

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

Any information in the possession of the Contractor that the Engineer requires in order to complete his as-built drawings shall be supplied to the Engineer before a Certificate of Completion will be issued.

**C3.2.3 DESIGN PROCEDURES**

The Contractor is responsible for the design of all temporary works required for the construction of the permanent works. This includes, inter alia, temporary access roads, trench shoring, dewatering and temporary support systems.

**C3.3 : PROCUREMENT****C3.3.1 PREFERENTIAL PROCUREMENT PROCEDURES****C3.3.1.1 Resources standards**

Refer to the Tender Data in Part T1

**C3.3.1.2 Requirements**

Refer to the Returnable Documents in Part T2

**C3.3.2.1 General**

Contractors are encouraged to promote LIC methods where and when possible by utilising temporary local labour from the surrounding local communities.

The chief aim of utilising LIC construction methods on this project is to afford an opportunity to the greatest possible number of members of the local community (and possibly surrounding communities if the circumstances warrant it and approval is granted by the Employer) to obtain temporary employment and where applicable to obtain certified and accredited in-service training, to increase their level of experience and enhance their ability to secure future employment.

There are specific requirements regarding labour intensive construction (LIC) and the use of affirmative business enterprises (ABE's) and historically disadvantaged individuals (HDI's) and with regard to training.

Contractors are encouraged to maximise labour based construction activities and the Works and activities shall be so programmed and executed that those operations and activities that can reasonably be done by means of hand labour are so performed.

**C3.3.2.2 The Community**

The Community in terms of Sub-clauses 1.(1)(cc) and 23.(4) of the Special Conditions of Contract shall for the purpose of this Contract be held to include all residents residing within a five kilometre radius of the site.

**C3.3.2.3 Recruitment of Local Labour**

Upon receipt of the Letter of Tender Acceptance the Contractor shall expeditiously proceed to arrange for the recruitment of local labour.

Most of the labour employed on the Contract shall, insofar as such labour is available, be recruited from the local Community stated above, unless it shall be agreed between the Employer, the Engineer and the Contractor that labour residing in neighbouring communities may be recruited and employed.

**4.1 Labour intensive competencies of supervisory and management staff**

Contractors having a CIDB contractor grading designation of **6CE** and higher shall only engage supervisory and management staff in labour intensive works who have either completed, or for the period 1 April 2004 to 30 June 2006, are registered for training towards, the skills programme outlined in Table 1.

The managing principal of the contractor, namely, a sole proprietor, the senior partner, the managing director or managing member of a close corporation, as relevant, having a contractor grading designation of 1CE, 2CE, 3CE and 4CE shall have personally completed, or for the period 1 April 2004 to 30 June 2006 be registered on a skills programme for the NQF level 2. All other site supervisory staff in the employ of such contractors must have completed, or for the period 1 April 2004 to 30 June 2006 be registered on a skills programme for, the NQF level 2 unit standards or NQF level 4 unit standards.

**Table 1: Skills programme for supervisory and management staff**

Personnel	NQF level	Unit standard titles	Skills programme description
Team leader / supervisor	2	Apply Labour Intensive Construction Systems and Techniques to Work Activities Use Labour Intensive Construction Methods to Construct and Maintain Roads and Stormwater Drainage Use Labour Intensive Construction Methods to Construct and Maintain Water and Sanitation Services Use Labour Intensive Construction Methods to Construct, Repair and Maintain Structures	This unit standard must be completed, and any one of these 3 unit standards
Foreman/ supervisor	4	Implement labour Intensive Construction Systems and Techniques Use Labour Intensive Construction Methods to Construct and Maintain Roads and Stormwater Drainage Use Labour Intensive Construction Methods to Construct and Maintain Water and Sanitation Services Use Labour Intensive Construction Methods to Construct, Repair and Maintain Structures	This unit standard must be completed, and any one of these 3 unit standards
Site Agent / Manager (i.e the contractor's most senior representative that is resident on the site)	5	Manage Labour Intensive Construction Processes	Skills Programme against this single unit standard

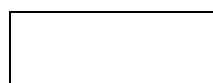
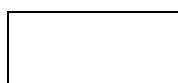
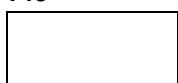
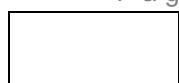
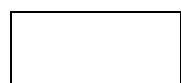
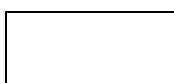
## 4.2 Employment of unskilled and semi-skilled workers in labour-intensive works

### 4.2.1 Requirements for the sourcing and engagement of labour.

4.2.1.1 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. The contractor shall employ a minimum of 10 temporary labourers for the duration of the project.

4.2.1.2 The rate of pay set for unskilled labour is R200 per day.

4.2.1.3 Tasks established by the contractor must be such that:



- a) the average worker completes 5 tasks per week in 40 hours or less; and
- b) The weakest worker completes 5 tasks per week in 55 hours or less.

4.2.1.4 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 4.2.1.3.

4.2.1.5 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:

- a) Where the head of the household has less than a primary school education;
- b) That have less than one full time person earning an income;
- c) Where subsistence agriculture is the source of income.
- d) Those who are not in receipt of any social security pension income

4.2.1.6 The Contractor shall endeavour to ensure that the expenditure on the employment of temporary workers is in the following proportions:

a) 40 % women;

b) 60 % men

Of which;

- a) 60% youth who are between the ages of 18 and 35; and
- b) 2% on persons with disabilities.

#### **4.2.2 Specific provisions pertaining to SANS 1914-5**

##### **4.2.2.1 Definitions**

**Targeted labour:** Unemployed persons who are employed as local labour on the project.

##### **4.2.2.2 Contract participation goals**

4.2.2.2.1 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.

4.2.2.2.2 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.

##### **4.2.3 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.

##### **4.2.2.4 Variations to SANS 1914-5**

4.2.2.4.1 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.**

4.2.2.2.4.2 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.

#### **4.2.2.5 Training of targeted labour**

4.2.2.2.5.1 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.

4.2.2.2.5.2 The cost of the formal training of targeted labour, will be funded within the contract sum. This training should take place as close to the project site as practically possible. The contractor, must access this training 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.

4.2.2.2.5.3 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.

4.2.2.2.5.4 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 5 months or less and a minimum of ten (10) days if he she is employed for 6 months or more.

4.2.2.2.5.5 The contractor shall do nothing to dissuade targeted labour from participating in training programmes.

4.2.2.2.5.4 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 4.2.2.2.5.4 above.

4.2.2.2.5.5 Proof of compliance with the requirements of 4.2.2.2.5.2 to 4.2.2.2.5.6 must be provided by the Contractor to the Employer prior to submission of the final payment certificate.

**C3.4 : CONSTRUCTION****C3.4.1 WORKS SPECIFICATION****C3.4.1.1 Applicable Standards**

The Standard Specifications for Road and Bridge Works for State Road Authorities (1998 Edition) as prepared by the Committee of Land Transport Officials (COLTO) are applicable to this Contract. It shall however be noted that reference is made in certain of the specifications to other standardised specifications which may or may not be included in this document. Where such specifications are not included, they shall however be deemed to be included in the Contract documents.

The Contractor shall have available for reference on site at all times a full set of the above specifications, together with any other to which they refer. These specifications shall remain the property of the Contractor but shall be made available to the Engineer whenever required throughout the duration of the Contract.

In addition the following Particular Specifications that are bound into this document will also apply:

- Section 1900 : Dayworks
- Section 9300 : Environmental Management Plan Implementation
- Section 9400 : Occupational Health & Safety Specifications
- Section 12000: Training

**C3.4.1.2.1** The term "Project Specifications" appearing in any of the COLTO standardised specifications must be replaced with the terms "scope of work".

**C3.4.1.2.2** The variations and additions to the specifications listed in C3.4.1.2.2 are as follows:

The Standard Specifications for Road and Bridge Works for State Road Authorities 1998, prepared by the Committee of Land Transport Officials, (COLTO), as amended, shall apply to this Contract. The amendments are those issued by COLTO and reproduced below, together with additional amendments as set out herein.

**C3.4.2 SITE FACILITIES****C3.4.2.1 Facilities for the Engineer**

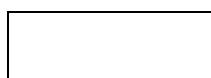
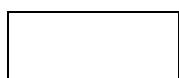
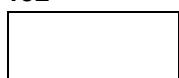
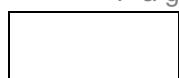
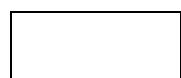
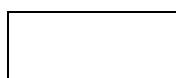
Site facilities as specified in the schedule of quantities are required. Site meetings will be held in the Contractor's site office and must make allowance to seat at least 10 people.

**C3.4.2.2 Sanitary Facilities**

The Contractor shall supply (2 No.) of chemical toilets for use by his employees and temporary workers and shall be entirely responsible for maintaining such toilets in a clean and sanitary condition to the satisfaction of the Engineer and the health authorities. The number of toilets shall be based on one toilet per fifteen personnel on site and the Contractor shall make his own arrangements and pay all charges for the removal of sewage.

**C3.4.2.3 Contractor's Camp Site**

The establishment of all labour, plant and materials on site and all arrangements in this respect is the responsibility of the Contractor.



The Contractor shall provide within his own on-site facilities, a suitably furnished office or other venue capable of comfortably accommodating a minimum of ten (10) persons at site meetings. The Engineer shall be allowed free use of such a venue for the conducting of any other meetings concerning the Contract at all reasonable times. The cost of providing the above facility will be viewed to be inclusive of the Contractor's establishment costs.

Before the erection of his camp, office, stores, plant and accommodation units or any facilities, the Contractor shall satisfy the Engineer that he is familiar with and has taken due cognizance of any pertinent local by-laws, availability of services and statutory regulations. The Contractor's attention is specifically drawn to the regulations pertaining to the accommodation of labourers.

#### **C3.4.2.4 Telephone and Communication Facilities**

The Contractor shall provide and maintain a continuous means of on-site communication between his site supervision staff (i.e. the people responsible for the day to day running of the Contract) and the staff of the Engineer's Representative.

The Engineer and his Representative will use their own cellular and office telephones for this contract. The provision and use of cellular phones for the Contractor's personnel will be for his own cost.

#### **C3.4.2.5 Accommodation for Employees**

The Contractor shall make his own arrangements for the accommodation of his employees.

#### **C3.4.2.6 Security**

The Contractor shall be responsible for the security of his own personnel and constructional plant on and around the site of the works and for the security of his camp and laboratory, and no claims in this regard will be considered by the Employer.

#### **C3.4.2.7 Water, Power Supply and other Services**

The Contractor shall make his own arrangements concerning the supply of water, electrical power and all other services for use at the site camps, as well as for all construction and maintenance purposes. No direct payment will be made for the provision of water, electrical power and other services. The cost thereof shall be deemed to be included in the rates and amounts tendered for the various items of work.

### **C3.4.3 FEATURES REQUIRING SPECIAL ATTENTION**

#### **C3.4.3.1 Public Safety**

The Contractor shall at all times ensure that his operations do not endanger any member of the public or of his own personnel.

#### **C3.4.3.2 Adjoining Properties**

The sites of the Works are surrounded by private properties. The Contractor shall exercise strict control over his employees to ensure that they do not trespass outside the road reserve or interfere in any way with the adjacent owners, tenants and their properties. In addition, the Contractor shall liaise with the owners regarding all matters that may affect them such as the provision of water and the like.

#### **C3.4.3.3 Construction and Maintenance Activities in Confined Areas**

It may be necessary for the Contractor to work within confined areas. Except where provided for in the project specifications, no additional payment will be made for work done in restricted areas.



The Contractor must note that measurement and payment will be in accordance with the specified cross-sections and dimensions only, irrespective of the method used for achieving these cross-sections and dimensions and that the tendered rates and amounts shall include full compensation for all special equipment and construction / maintenance methods and for all difficulties encountered when 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 additional payment be considered in such cases.

**STANDARD AMENDMENTS TO THE STANDARD SPECIFICATIONS ISSUED BY COLTO**

No amendments have been issued.

**PROJECT SPECIFICATIONS REFERRING TO THE STANDARD SPECIFICATIONS AND ADDITIONAL SPECIFICATIONS**

In certain clauses the Standard Specifications allow a choice to be specified in the Scope of Works 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 Scope of Works. It also contains some additional specifications required for this particular Contract.

The number of each clause and each payment item in this part of the Scope of Works consists of the prefix B followed by a number corresponding to the number of the relevant clause or payment item in the Standard Specifications. The number of a new clause or a new payment item which does not form part of a clause or a payment item in the Standard Specifications and which is included here, is also prefixed by B followed by a new number. The new numbers follow on the last clause or item number used in the relevant Section of the Standard Specifications.

### C3.5 MANAGEMENT

#### C3.5.1 MANAGEMENT OF THE WORKS

##### C3.5.1.1 Applicable standards

The following documents and COLTO standards and associated specification data are applicable and form part of the Contract:

- i) **Volume 1:** The General Conditions of Contract (2015) 3<sup>rd</sup> Edition, issued by SAICE, which the tenderer must purchase
- ii) **Volume 2:** The COLTO Standard Specifications for Road and Bridge Works for State Road Authorities (1998 Edition), issued by the Committee of Land Transport Officials which the tenderer must purchase himself.
- iii) **Volume 3:** This document.
- iv) **Volume 4:** Book of Drawings issued as Volume 4.
- v) Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP).
- vi) Health and Safety Specification (may be bound in at the back of Volume 3 or issued as a separate volume).

##### C3.5.1.2 Planning and programming

The extent of the works contained in the Bill of Quantities is aimed at upgrading certain of the district road network over the contract period. However, should the tender amount exceed the Employer's budget, or should the Employer's annual budget be reduced during the course of the contract, the Employer reserves the right to reduce the scope of the works to suit the available budget.

The time for completion of this Contract is as stated in the Contract Data.

The Engineer will determine the extent of the work to be executed in terms of the contract. A preliminary overall maintenance plan indicating the anticipated maintenance activities over the month period, based upon an initial needs analysis and current budgets.

The Contractor should also note that, during the contract period, other contracts may be running on the section of road requiring maintenance.

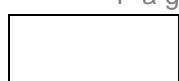
The Contractor should take cognisance of this for his programme and will be required to fully accommodate these contractors. No additional payment will be made for any inconvenience in this regard.

The Contractor shall submit his programme within the time stated in the Contract Data to the Engineer in bar chart form showing clearly, in addition to the requirements of Clause 15 of the General Conditions of Contract, the following:

- The various stages of work planned to be completed per month to suite the overall programme.
- Critical path activities
- Anticipated value of work to be done during each month.
- His labour resources schedule which must distinguish between the Contractor's permanent labour and his temporary local labour employment.
- The lead time for training local labour if required.

When drawing up his programme, the Contractor shall also, *inter alia*, take into consideration and make allowance for:








- Expected weather conditions and their effects (e.g. for grading work).
- The requirements and effects of employing labour intensive construction methods.
- The accommodation and safeguarding of public access and traffic.
- Presence of other contractors on site.
- All other actions required in terms of this document.

The Engineer will agree on a general programme of work per route section with the Contractor and any changes to this programme will be finalised with the Contractor at least one month in advance. Once the programmes have been finalised a detailed monthly programme will be drawn up which will be used to monitor performance. When drawing up his construction programme, the Contractor shall take into account the time for completion for the activity as indicated in the Preliminary Programme. The Contractor will be required to pay special attention to the preceding table and project drawings, which represent a guideline programme for the execution of the maintenance works.

Once the monthly programme has been approved by the Engineer, the Contractor will be notified of the work that he is to undertake for the month by means of a Works Instruction from the Engineer.

Failure on the part of the Contractor to submit or to work according to the programme or revised programmes shall be sufficient reason for the Engineer to take steps as set out in Clause 43 of the General Conditions of Contract.

Certain maintenance activities may be restricted on certain roads on days with increased traffic flows. The Contractor must allow for these restrictions in his monthly programme and no extension of time or claims in this regard will be considered. For this contract, the days with restrictions are indicated in the table overleaf:

DATE	ACTIVITY TO BE RESTRICTED	PERIOD OF RESTRICTION
Weekends		From 16h00 on Friday till 07h00 on Monday
School closure		For 2 days before closing
School opening		For 2 days before opening
Long weekends		From 12h00 on day preceding, for duration
December holidays	All routine road maintenance activities which may disrupt the normal flow of traffic.	Duration of holidays (taken as 15/12 – 08/01 )

The Contractor will only be allowed to undertake work on the affected roads during these periods with the approval of the Engineer.

Should the Contractor fall behind his monthly programme he shall produce a revised programme showing the modifications to the original programme necessary to ensure completion of the Works, or any part thereof, within the time for completion as defined or any extended time granted.

Failure to produce a revised programme may prejudice the Contractor in any claim for an extension of time.

### C3.5.1.3 Sequence of the works

The Engineer will agree on a general programme of work per route section with the Contractor and any changes to this programme will be finalised with the Contractor at least one month in advance. Once the annual programmes have been finalised a detailed monthly programme will be drawn up which will be used to monitor performance. When drawing up his construction programme, the Contractor shall take into account the time for completion for the activity as



indicated in the Preliminary Programme. The Contractor will be required to pay special attention to the preceding table and project drawings, which represent a guideline programme for the execution of the maintenance works.

Once the monthly programme has been approved by the Engineer, the Contractor will be notified of the work that he is to undertake for the month (or emergency works, as they occur) by means of a Works Instruction from the Engineer.

Failure on the part of the Contractor to submit or to work according to the programme or revised programmes shall be sufficient reason for the Engineer to take steps as set out in Clause 55 of the General Conditions of Contract.

#### **C3.5.1.4 Computer equipment and software**

An allowance has been made for computer equipment and software for the Engineer.

#### **C3.5.1.5 Methods and procedures**

All work to be carried out will be in compliance with the following minimum requirements

- The Routine Road Maintenance Procedures Manual as issued by the Department Roads and Public Works of the Eastern Cape (Version 1, February 2002)
- Gravelling and Road Betterment Procedures Manual (Version : 3–Feb 2005)
- The OHS Act
- Environmental Management Plans
- Departmental Details drawings
- COLTO Standard Specifications for Road and Bridge Works for State Road Authorities (1998 edition)

#### **C3.5.1.6 Materials and Road Condition Reports**

Preliminary road condition surveys and road logs indicating the existing condition of the proposed roads to be maintained are available at the Engineer's offices for perusal during working hours.

##### Control Testing of Earthworks and Road Layers

The Contractor is required to carry out his own control testing, but if he so wishes, and agrees to abide by the results of the Engineer's check test, he may dispense with his own tests.

However, should the Contractor wish to use the Engineer's testing facilities, he will be charged for the various tests at the rates ruling at the time. The contractor must give reasonable notification to the Engineer of dates and time that tests will be undertaken as no test results will be admissible should they be done in the absence of the Engineer.

Any additional tests requested by the Contractor or any retests required, due to failure of the initial tests, will be charged to the Contractor at the rates ruling at the time.

##### Process Control Testing

The Contractor is required to carry out his own control testing. The results of these control tests together with the location of the tests shall be submitted to the Engineer for approval. No payments will be made without this information, unless partial payment is allowed for special items in terms of the project specification.

### Acceptance Control Testing

The Engineer may order that additional tests be carried out from time to time. A provisional sum is allowed for these additional tests. The cost of any additional tests that might fail, together with the remedial work ordered by the Engineer, will be for the account of the Contractor.

### **C3.5.1.7 Environment**

The Contractor will prior to the commencement of any construction or repair work prepare and submit an Environmental Management Plan (EMP), for approval by the Engineer.

The EMP shall clearly demonstrate how the Contractor intends mitigating damage to the environment, as a result of their construction activities.

The Contractor shall further appoint an Environmental Control Officer (ECO), who shall inspect all construction related activities and who shall report on non-compliance items.

Further, the ECO will submit his/her Environmental Audits at monthly site meetings, for discussion by all role players.

#### a) Sand and dust control

The Contractor shall, for the duration of the contract, take appropriate measures to control the dust and soil movement which may arise due to his operations.

#### b) Environmental Management

The Contractor should appoint an External Environmental Auditor who will be required to compile a comprehensive Environmental Management Programme (EMPR), which should address the management and monitoring of environmental impacts related to this repair contract.

The EMPR should therefore identify potential environmental impacts and should further demonstrate how there would be mitigated and controlled.

The Contractor shall be responsible for implementing and managing an Environmental Management Programme in terms of the particular specifications for the borrow pits. The Contractor's authorised agent shall report to the Engineer regarding compliance with the conditions as stipulated in the Environmental Management Programme.

The Contractor shall take the utmost care to minimise the impact of his establishment and other construction activities on the environment and shall adhere to the requirements as set out in Section 9300 of the Project Specifications. Where, in the opinion of the Engineer, the Contractor has not adhered to these requirements, the Contractor shall rectify the damage at his expense and to the satisfaction of the Engineer.

Trees and shrubs established in the landscaped areas of the road reserve may under no circumstances be disturbed without specific instruction from the Engineer for their removal. Trees and shrubs inadvertently destroyed by the Contractor shall be replaced with the equivalent at the Contractor's expense.

The containers used for storage shall be free of leaks and placed on a firm surface. Unused or rejected products shall be removed from site and returned to the supplier. Solvents used for flushing spray tankers shall be treated likewise.

No separate payment items will be scheduled for the compliance by the Contractor with the EMPR. These costs will be deemed to be inclusive of the rates tender for the works.

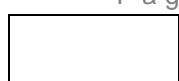
Trees and shrubs established in the landscaped areas of the road reserve may under no circumstances be disturbed without specific instruction from the Engineer for their removal.



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

Trees and shrubs inadvertently destroyed by the Contractor shall be replaced with the equivalent at the Contractor's expense.

Disposal of any bituminous-based material shall only be at an approved location and by means of an approved method, arranged beforehand with the Engineer.

Storage sites for all bituminous products in the road reserve, or on private property, are to be approved by the Engineer prior to use. The containers used for storage shall be free of leaks and placed on a firm surface. No spoiling of any bituminous products shall be allowed in these areas. Unused or rejected products shall be removed from site and returned to the supplier. Solvents used for flushing spray tankers shall be treated likewise.

No separate payment items will be scheduled for the compliance by the Contractor with the EMP. These costs will be deemed to be inclusive of the rates tender for the works.

#### **C3.5.1.8 Accommodation of traffic on public roads occupied by the contractor**

The Works will be undertaken in a manner that will minimise the interference with public traffic, consistent with established routine road maintenance practices. Although inconvenience to road users will be inevitable, the Contractor must ensure that road users have continuous access on and to, a public road.

Temporary road traffic signs shall at all times be displayed at the works as specified on the drawings and in accordance with the requirements of this document, as well as the South African Road Traffic Signs Manual, in conjunction with Manual K56 "Safety at Roadworks in Rural Areas", and the Routine Road Maintenance Procedures Manual of the Department of Transport and Roads of the Eastern Cape. The Contractor may not commence constructional activities before adequate provision has been made to accommodate traffic in accordance with the above requirements.

The traffic signs shall be covered or removed when not required at night and over weekends. No diversions are generally required and the Contractor shall regulate the traffic with flagmen and take all precautions necessary to promote the safe and easy flow of traffic on or next to the roadway under repair.

The Contractor, if so instructed in writing, shall nevertheless provide a diversion at places with a high traffic safety risk. Except where otherwise specified, additional payment over and above payment under the payment items included in the Contract, will be made for the construction of the diversion and the additional measures required to control traffic as specified by the Engineer.

Should the Contractor neglect to apply the road traffic safety measures specified without due diligence, the Engineer may temporarily stop the works until the Contractor has rectified the situation or impose a penalty for each contravention of the requirements of the Specifications as detailed in Section 1500.

The Contractor will be responsible for the accommodation of traffic on, and maintenance of the existing roadways used by the public as instructed by the Engineer, from the date of site handover, to the issuing of the Certificate of Completion for the works as a whole.

No separate payment items have been scheduled for the accommodation of traffic or traffic signage and all these costs will be deemed to have been included in the relevant payment items of the appropriate works.



The Contractor must ensure that a competent person, that can act as a Traffic Safety Officer, is present on site at all times to deal with all issues relating to traffic accommodation. This person will, at all times, be responsible for the construction, spacing, placement and maintenance of traffic control devices.

#### **C3.5.1.9 Other Contractors on site**

When drawing up his programme, the Contractor shall also, inter alia, take into consideration and make allowance for the presence of other contractors on site

#### **C3.5.1.10 Testing, completion, commissioning, and correction of defects**

The Routine Road Maintenance Procedures Manual (RRMPM) of the Department of Roads and Public Works of the Eastern Cape describes the causes and type of defects, as well as providing a guide on how to conduct the works. This is covered in the Scope of Works.

#### **C3.5.1.11 Recording of weather**

The Contractor will be responsible for recording and maintaining a daily log of weather conditions throughout the duration of the contract. During the execution of the Works, The Engineer's Representative will certify a day lost due to abnormal rainfall and adverse weather conditions only if less than 30% of the work force and plant on site could work during that specific working day.

#### **C3.5.1.12 Format of communications**

The Contractor will keep on site at all times a Site Instruction Book in which the Engineer's Representative will issue any Site Instructions for variations of the Work. All correspondence will be written, signed, copied to the Employer and Contractor. The Engineer will maintain a file of all original correspondence.

The Contractor shall furnish the Engineer daily with records, as per the Employers Web Based Reporting System of work executed by him for each activity. The records shall include information such as description, location, measurement, plant and labour hours, where applicable, and all other information the Engineer may require for the record and measurement purposes.

*Reports to be submitted to the engineer timeously, non-compliance may result in payment not being made*

#### **C3.5.1.13 Key personnel**

A Schedule of Key Personnel is included in Volume 3 of the Contract document.

#### **C3.5.1.18 Use of borrow pits**

The Contractor is to obtain compliant gravel wearing course material from the existing or new borrow pits in the vicinity of the project, as instructed by the Engineer. The Contractor is to adhere to the specific requirements contained in the EMP pertaining to work methods in borrow pits.

#### **C3.5.1.19 Construction Regulations, 2003**

The Contractor shall be required to comply with the Occupational Health and Safety Act, 1993: Construction Regulations, 2003 (the regulations) as promulgated in Government Gazette No



25207 and Regulation Gazette No 7721 of 18 July 2003. Non-compliance with these regulations, in any way whatsoever, will be adequate reason for suspending the Works.

The proposed type of work, materials to be used and potential hazards likely to be encountered on this Contract are detailed in the Scope of Works, the Bill of Quantities, the Drawings, and in the Employers' Health and Safety specification (regulation 4(1) of the Construction Regulations 2003), which is bound into the Contract document.

The Contractor shall, in terms of regulation 5(1), provide a comprehensive Health and Safety Plan detailing his proposed compliance with the regulations, for approval by the Employer.

The Contractor shall at all times be responsible for full compliance with the approved plan as well as with the Construction Regulations and no extension of time will be considered for delays due to non-compliance with the abovementioned plan or regulations.

Payment items are included in the Schedule of Quantities to cover the Contractor's cost for compliance with the OHS Act and the abovementioned Regulations.

### **C3.5.1.20 HANDING OVER SITE, SETTING OUT AND CONFIRMING THE SCOPE OF WORKS WITH THE CONTRACTOR**

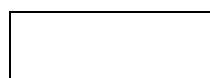
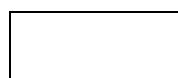
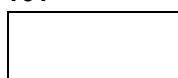
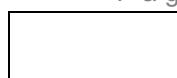
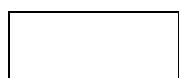
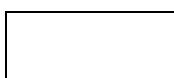
The entire road reserve within the Local Municipal Area (and indicating any "soft boundaries" if applicable) will be handed over to the Contractor at the commencement of the Contract.

The Contractor will be responsible for executing the routine maintenance and construction activities as specified in the maintenance plan. He will work on all the roads for the duration of the Contract but will only occupy certain specific roads as agreed to and indicated in the approved monthly programme. The Contractor will be responsible for the said section of road from its handover, to the issuing of the Certificate of Completion.

The Engineer, the Contractor and supervisory staff shall together carry out a joint inspection at the time of the handing over of the site. During such an inspection the scope of the works will be set out for each of the roads / road sections indicating the various activities to be conducted, as well as making notes of all damaged fences, guardrails, signs and any other notable problems or features that exist.

The following matters are to be confirmed at the time of handing over and before the commencement of any work:

- (i) Confirming position of the site camp and\or any additional temporary site camps that may be required.
- (ii) The construction limits, lengths, widths and areas of routine maintenance or construction to be conducted for the various sections of road.
- (iii) The determination of the trial section for each type of maintenance / construction activity to be performed.
- (iv) The location of kilometre markers and reference beacons to be used for setting out purposes.
- (v) The scope of remedial / repair / general maintenance and preparatory work to be carried out.
- (vi) The location of the proposed stockpile areas and the responsibilities of the Contractor with regard to the road reserve area in terms of the clearing and grubbing if required, fencing, motor gates, stock grids, road markings, road signage, mowing of grass and the like.



- (vii) The proposed method of accommodation of public traffic with regard to safety, sight distance, interference with existing road signs and road markings within the work section and providing advance warning before the work section.
- (viii) The method of construction / treatment envisaged for each of the sections (sections to be receive edge break repair, crack sealing, light blading, pot hole patching etc.) and the like, are to be confirmed and set out with the Contractor.
- (ix) Supervisory, test control measures and procedures are to be confirmed.
- (x) The position of all the existing pipe culverts (all hydraulic control structures), concrete lined

### TRIAL SECTION

Before the Contractor commences with the construction/maintenance works, he shall demonstrate on a test section (for each type of maintenance activity) that the equipment and processes he intends to use, will enable him to execute the Works in accordance with the specified requirements. The trial sections for the various maintenance activities shall also serve as a basis to agree the interpretation of the Specifications for application during the Contract Period and the criteria and methods to be used by the Engineer for acceptance control.

Only when the trial sections have been satisfactorily completed in conformity with the specified requirements, will the Contractor be allowed to commence the maintenance/repair works. The Engineer shall, as far as is practical, select the location of the trial section at a position with characteristics which are representative of the general conditions to be found with the balance of the proposed works. The Engineer may require the construction of additional trial sections should the materials available or methods of construction significantly change during the course of the Contract.

No additional payment will be made for the demonstration at the trial section, other than for the work completed and accepted as part of the Works, at tender rates.

### C3.5.1.21 COMPLETION TIME OF SPECIFIED ACTIVITIES AND PENALTIES

Due to the nature of maintenance work, certain items of work shall be carried out as a matter of routine and others as emergency cases. The Contractor will be called upon to do remedial work at very short notice in some instances, in which case the Contractor shall proceed to carry out the work without delay and report to the Engineer in writing as soon as practically possible the extent of the work carried out.

It is a condition of the contract that certain specified activities must either be completed within a specified period or responded to within a specified time if they have been classified as emergency repairs by the Engineer. All other construction or maintenance activities will be classified as routine, and conducted as per the programme and works instructions.

#### Completion time for an activity:

Completion time is defined as that period from the date on which an instruction is received by the Contractor from the Engineer, to the date of full completion of the specific activity. The completion times are as indicated in the attached programme.

#### Responding time:



Responding time is defined as that period of time on which an instruction is received by the Contractor from the Engineer, to the time of reporting at an indicated place, by the designated team.

Emergency response and completion times:

### 3.5.2 EMPOWERMENT PRINCIPLES

#### 3.5.2.1 Labour Intensive Construction Methods

Labour intensive construction methods based on the Expanded Public Works Programme (EPWP) will be utilised where practically possible and feasible. Construction activities that are undertaken using labour intensive methods shall be based on the prevailing statutory minimum wage as determined by the Department of Labour.

Emergency Activity	Completion Time	Responding Time	Penalty for late responding	Penalty for late completion	Penalty for not meeting specification
Repairs on Access Roads	As specified by Engineer	1 day	R500/day	R250/day	R1000/occur

#### 3.5.2.2 Local Labour

Should personnel and labour, in addition to that provided by the Contractor, be required, the Contractor must endeavour to employ labourers, artisans and subcontractors from the community within the Local Municipal Area for the execution and completion of the work.

The Contractor and his sub-contractors shall ensure that they enter into a Contract of Employment with each employee engaged on the labour intensive aspects of this Contract.

## SECTION 1100

## DEFINITIONS AND TERMS

Add the following additional clauses:

#### “B1156 ACCEPTANCE CONTROL

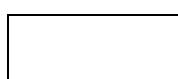
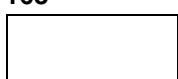
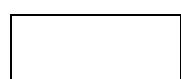
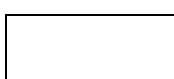
Acceptance control means whatever testing the Engineer carries out over and above the process control testing already carried out in order to decide on the acceptability of any work submitted by the Contractor. Such testing will be carried out at the cost of the Employer in a laboratory approved by him.

#### B1157 COMMERCIAL SOURCE

An off-site source of materials chosen by the Contractor will also be viewed as a commercial source. The Contractor shall take full responsibility for the quality of all materials and services supplied from commercial sources.

#### B1158 PROCESS CONTROL

Process control means all testing required to be carried out by the Contractor on the works in order to ensure that the completed permanent works comply with the specifications and drawings. All such testing will be subject to inspection and approval by the Engineer.”



**SECTION 1200: GENERAL REQUIREMENTS AND PROVISIONS****B1204 PROGRAMME OF WORK**

*Insert the following before the first paragraph:*

"A network-based programme in accordance with the precedence method shall be provided showing the various activities in such detail as may be required by the Engineer. The programme shall be updated monthly in accordance with the progress made by the Contractor.

Failure to comply with these requirements will entitle the Engineer to apply a programme based on his own assumptions for the purpose of evaluating claims for extension of time for completion of the works, or for additional compensation."

**B1206 SETTING OUT OF THE WORKS AND PROTECTION OF BEACONS**

In second line of first paragraph, replace Clause 14 with 4.1.2, 4.5, 4.15 and 4.15.3 of SANS 1921-1.

**B1207 NOTICES, SIGNS AND ADVERTISEMENTS**

*Replace the second paragraph with the following:*

"Two (2) contract name boards shall be erected and maintained for the duration of the Contract at points to be indicated by the Engineer. Details of the contract name board are provided in the standard drawings, whilst a layout of the identity boards is included with the tender drawings."

*Delete the final paragraph and replace with the following:*

"All signboards erected in accordance with the drawings or as approved by the Engineer, shall be removed at the same time as the Contractor's de-establishment. Payment under sub-item 13.01 for the final instalment of 15% of the tendered lump sum shall not be made unless all the advertisements, notices and temporary signs have been removed."

**B1209 PAYMENT****(b) Rates to be inclusive**

*In the 3<sup>rd</sup> line, after the word "quantities", insert "together with the payment of VAT as a separate item,"*

**(f) Materials on Site**

In the first line of the first paragraph, delete "Clause 52" and replace with "Clause 49".

*Add the following sub clause:*

**"(g) Trade names**

Where materials are specified under trade names, tenders must be based on those specified materials. Alternative materials may be submitted as alternative tenders and the Engineer may, after receipt of tenders, approve the use of equivalent materials."

**"(h) Compensation for work in restricted areas**

No extra-over rates will apply to work in restricted areas such as, for example, the widening of existing and or/new intersections or to existing and/or new pavements, repair, excavation or backfilling within the boundaries of an existing and or new road. The only exceptions will be for those for which explicit provisions are made in the project specifications and the schedule of quantities.



Allowance for work in restricted areas shall, under normal circumstances, be deemed to be included in the rate tendered for each item of work concerned. Such rates shall include for all extra measuring and setting out; all manual work of whatever nature, double handling of material; special methods of excavation, application, placing, mixing, and compacting, as well as all extra and/or special supervision, labour equipment, tools, transport and incidentals over and above those usually required for work in normal areas.

#### **B1210 CERTIFICATE OF PRACTICAL COMPLETION OF THE WORKS**

*Insert the following:*

In the fourth line of the first paragraph, delete "Clause 54" and replace with "Clause 51".

*Add the following paragraph:*

"In addition to the listed specified items of work and regardless of the degree of beneficial use by the Employer, no sections of the works, individually or collectively, shall be considered for practical completion unless the following criteria have also been met:

- In the case of partial completion, the estimated cost to complete the outstanding work shall be less than 2 % of the estimated cost to construct the whole section or sections.
- In the case of the whole works, the estimated cost to complete the outstanding work shall be less than 2 % of the tendered value of work plus the cost of any variation or extra work orders, but excluding CPA and VAT.
- It must be possible for the Contractor to complete the written list of outstanding items of work within 28 days of the list having been issued to the Contractor."

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

*Add the following to the first paragraph of subclause (d)(ii)*

"This is also required with respect to fences, gates, camp sites, bypasses and material spoiled on private property."

*Add the following after subclause (e)*

"These written statements, as required in Clause 1214(b)-(e) shall be handed to the Engineer before the final certificate will be issued."

#### **B1215 EXTENSION OF TIME RESULTING FROM ABNORMAL RAINFALL**

*Delete the clause and replace with the following:*

"There will be no extension of time on this contract due to abnormal rainfall except as provided for below.

Should the Contractor, due to the occurrence of rainfall resulting in his inability to carry out the Works, not meet the rates of progress as per the programme, the Engineer shall determine the number of days lost due to the occurrence of rain, and deduct same from the number of days of penalty which the Contractor shall pay to the Employer due to non-performance in terms of the contract.

Should the occurrence of rain delay the Contractor's rate of progress on work programmed at the end of the contract, the provisions in the above paragraph shall still apply, but the employer shall

have the right to discontinue the work in progress on the date that the contract expires, at his sole discretion, or grant an extension of time in terms of Clause 42 of the General Conditions of Contract equal to the number of days lost due to rainfall in respect of the activities affected by the rainfall, as determined by the Engineer.

During the execution of the Works, The Engineer's Representative will certify a day lost due to abnormal rainfall and adverse weather conditions only if less than 30% of the work force and plant on site could work during that specific working day."

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

In second line of first paragraph, replace "Clause 35" with "Clause 32".

*Add the following sub clause:*

(h) "Before commencing excavations in any section of the work, the contractor shall thoroughly plan the relevant excavation and the backfilling and submit such planning to the Engineer.

The contractor shall be fully responsible for protection of works and the draining and /or keeping dry of such excavations, and his planning shall make provision for speedy backfilling and drainage during wet periods. Unless otherwise directed by the Engineer, the contractor shall make use of temporary drainage pipes and/or pumps for draining excavations. Where temporary pipes are placed in completed works or in existing works which will subsequently not be broken up, the road and/or bridge structures shall be repaired in such manner that the structures will not be weakened thereby.

No extra payment will be made for draining of excavations. Furthermore, the contractor shall, at his own cost, be responsible for the repair of any damage as a result of water being impounded or of saturation, should he have failed to submit his planning to the Engineer or to have duly complied with the approved measures."

**B1229 SABS CEMENT SPECIFICATIONS**

*Add the following to this subclause:*

"Where reference is made in this specification or the Standard Specifications to the cement specifications, e.g. 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 specification to a different cement type, the following names will apply and the Engineer will confirm the relevant new name from the table overleaf:

Cement Grade	Cement Type	Approximate old product name	Holcim	New Blue Circle	New NPC	New PPC	New Slag-cement
52,5	CEM 1	Rapid hardening	Rapid Hard	Duracast	Eagle Super	-	-
42,5 R	CEM 1	Rapid hardening	-	-	-	Rapo	-
42,5	CEM 1	OPC *	Portland Cement	Duratech	-	OPC	-
	CEM 1	LASRC	-	-	-	LASRC	-
	CEM II A-S	PC 15SL	-	-	Eagle Plus	-	-
	CEM II B-S	RH30SL	-	-	Eagle Plus	-	-
32,5R	-	-	-	-	-	-	-
32,5	CEM II A-V	PC 15FA	All Purpose Cement	-	-	Surebuild	-
	CEM II A-W	PC 15FA	-	-	-	Surebuild	-
	CEM II A-L	-	All Purpose Cement	-	-	Surebuild	-
	CEM II B-V or W	PC25FA/PFA C**	-	Structrete	-	Surecrete	-
	CEM III A	PBFC	-	BFC	Eagle Pro	-	PBFC
	CEM IIIA	RHSL	-	-	-	-	RHSL
22,5	MC 22.5X	PFAC ***	Multipurpose Cement	Durabuild	-	-	-
	MC22.5X	PFAC***	-	Buildcrete	-	-	-
12,5	MC 12,5	Walcrete	Mortar Cement	Wallcrete	-	Masonry	-
	MC 12,5	Mortacem	-	-	-	-	-

**Notes:** \* OPC cements previously performed approximately as CEM 1 32,5R products

\*\* PC25FA cements under the old standards achieved lower compressive strengths than the OPC's of the time

\*\*\* Some PFAC cements meet the new standard for MC 22,5X. Others required modification before meeting the requirements for MC 22,5X"

Add the following new clauses:

#### B1230 DAILY RECORDS

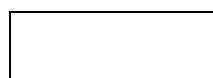
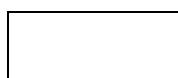
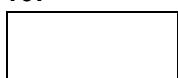
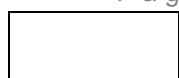
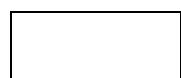
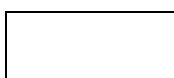
The Contractor shall furnish the Engineer daily with records of work executed by him for each activity. The records shall include information such as description, location, measurement, plant and labour hours, where applicable, and all other information the Engineer may require for the record and measurement purposes.

No separate payment items will be scheduled for the administrative costs incurred by the Contractor to provide the Engineer with the activity sheets and other information that will be required. These costs will be deemed to be inclusive of the rates tendered for the works.

#### B1231 MEASUREMENT AND PAYMENT FOR CERTAIN GENERAL ITEMS

Payment will be made under this section for certain items as follows:

Add the following new Payment Items:



Item	Unit				
<b>B1201 Community Liaison Officer</b>					
(a) Remuneration/subsistence and travel of CLO .....	provisional sum				
(b) Handling costs, profits and all other charges in respect of Item 12.01 (a) .....	percentage (%)				
"A provisional sum is included to allow for the salary of a person working full time as the Community Liaison Officer for the duration of the construction on this Contract. The sum also includes for costs such as transport, office space, communication and any other requirement necessary. The Contractor shall ensure that the salary and other expenses such as payment to the Community Liaison Officer members are paid timeously in accordance with the payment dates of his own staff".					
A separate item for overheads, charges and profit on the above item is applicable.					
<b>B1202 PROJECT STEERING COMMITTEE (PSC)</b>					
(a) Remuneration/subsistence and travel of PSC .....	provisional sum				
(b) Handling costs, profits and all other charges in respect of Item 12.02 (a) .....	percentage (%)				
"A provisional sum is included to allow for the "stipend" of person(s) working full time as the members of the Project Steering Committee (PSC) for the duration of the construction on this Contract".					
A separate item for overheads, charges and profit on the above item is applicable.					
<b>B1203 RELOCATION OF EXISTING SERVICES</b>					
(a) Payment for the relocation and/or protection of existing services .....	provisional sum				
(a) Handling costs, profits and all other charges in respect of Item 12.03 (a) .....	percentage (%)				
"The stated provisional sum shall be expended only as ordered and approved by the Engineer for the cost of re-locating and/or protection existing services. The sum includes for all labour, plant, specials, and materials required to complete the work.					
<b>B1204 PAYMENT FOR ENVIRONMENTAL CONTROL MONITORING (ECO)</b>					
(a) Payment for environmental control officer .....	provisional sum				
(a) Handling costs, profits and all other charges in respect of Item 12.04 (a) .....	percentage (%)				
"The stated provisional sum shall be expended only as ordered and approved by the Engineer for the cost of payment for environmental control monitoring. The sum includes for all activities and sub-activities required to complete the work.					
<b>SECTION 1300: CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</b>					
<b>B13.01 The Contractor's general obligations</b>					
Add the following:					
"Two Employer's nameboards shall be erected within one month of the commencement of construction and shall be placed where ordered by the Engineer. Any damage to this board shall be repaired within 14 days of a written instruction received from the Engineer. For details of the board refer to the Standard Drawings contained in this document.					
Page   168					
<input type="text"/> <i>Contractor</i>	<input type="text"/> <i>Witness 1</i>	<input type="text"/> <i>Witness 2</i>	<input type="text"/> <i>Employer</i>	<input type="text"/> <i>Witness 1</i>	<input type="text"/> <i>Witness 2</i>

Erection of two Contractor's nameboards that comply with the drawing(s) provided are required in the area of the Works, at a positions approved by the Engineer, who may at any time order their removal if any objections are received.

The board shall be manufactured from materials specified in but shall conform in the painting, decorating and detail with the recommendations to the drawing attached.

All construction signage shall be removed 14 days prior to the date of the Final Approval Certificate.

### B1303 PAYMENT

#### B13.01 The Contractor's general obligations

*Add the following:*

"References to Clause 49 must be amended to read Clause 6.8.1"

"References to Clause 53 must be amended to read Clause 6.11"

*Add the following:*

The Scope shall also include the requirements of the Occupational Health and Safety specifications and relevant payment items contained in the tender documentation.

*Add the following to subclause (i):*

"The tendered sum for sub item 13.01(a) also includes full compensation for the complete relocation of the Contractor's camp or temporary road camps from one road or area to another during the course of the contract as per the approved programme.

The Contractor must make allowances for the provision and erection of two (2) contract name boards, as per the drawings, under item 13.01(a), Contractor's General Obligations (separate item).

Under this payment item he shall also make allowance for the provision of two labourers to assist the Resident Engineer as and when required for checking and measuring the various items of work.

*Add the following after the fourth paragraph:*

"Should the combined total tendered for subitems (a), (b), and (c) exceed 20% of the tender sum (excluding CPA, contingencies and VAT), the tenderer shall state his reasons in writing for tendering in this manner."

*Add the following at the end of the pay item:*

"The amount payable to the Contractor for time related costs arising from extensions of time granted by the Employer, where the Contractor is fairly entitled to such compensation in terms of Clause 42 of the General Conditions of Contract, shall be calculated as follows:

- (i) Account shall be taken of all time-related items scheduled in Section 1300, 1400 and 1500.
- (ii) All pay items for which the unit of measurement is "month" shall be deemed to be based upon an average of 22 working days per month.
- (iii) Payment will be made only for items for which the unit of measurement is "month".

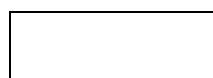
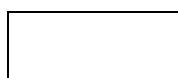
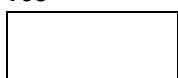
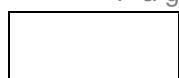
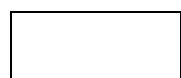
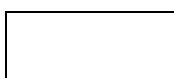
### SECTION 1400: HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL

#### B1402 OFFICES AND LABORATORIES

##### (c) Laboratories

"No on-site laboratories are required. The Contractor may make use of SANAS accredited laboratories for all his process control testing."

### SECTION 1500: ACCOMMODATION OF TRAFFIC



**B1501 SCOPE**

Add the following:

"This section also covers the providing of additional information signs for motorists and releasing necessary notices to the media and public.

A high standard of traffic control and accommodation of traffic is to be maintained throughout the contract period.

The contractor makes provision for stopping the work should the contractor neglect to repair or replace damaged or broken temporary road signs, applying penalties for negligence regarding the accommodation of traffic.

The accommodation of traffic shall be in accordance with the requirements of Chapter 13 of Volume 2 of South African Road Traffic Signs Manual."

**B1502 GENERAL REQUIREMENTS****(a) Safety**

*Add the following to Sub Clause 1502 (a) and (b):*

"The entire site as described in Part A will be handed over to the contractor.

The contractor, before starting work of any part on the site, shall submit to the Engineer his planning for accommodating traffic on that section."

**(f) Providing temporary deviations**

*Add the following paragraph:*

"All the diversion, bypasses and accesses, etc." must be adequately set up for use during the day or at night, whatever the case may be, and must comply with the standards specified".

"The contractor shall keep the Engineer, traffic authorities and emergency services fully informed with regard to changes in the traffic flow, paths or routes and shall obtain their approval for these changes."

**(f) Approval of temporary deviations**

*Add the following:*

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

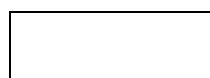
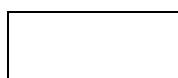
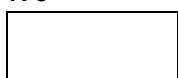
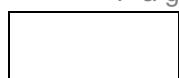
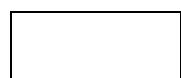
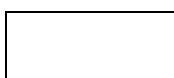
**(i) Traffic Safety Officer**

*Add the following after the second paragraph:*

"The Contractor shall submit a CV of the candidate to the Engineer for approval before the Traffic Safety Officer is appointed. The Traffic Safety Officer shall be made available to discuss road safety and traffic accommodation matters whenever required by the Engineer."

*Add the following sub-subclauses:*

- (ix) Ensure that all obstructions, soil and gravel heaps, related to the Contractor's activities be removed before nightfall, where applicable or instructed by the Engineer, and that the roads are safe for night traffic.
- (x) The Traffic Safety Officer shall, in addition to the duties listed in paragraph 1502 (i), also be responsible for removal of broken down vehicles off the roadway and implementing actions requested by the traffic authorities with regard to the work to be



carried out, be responsible for the erection and maintenance of all traffic signs necessary for the accommodation of traffic."

*Add the following subclauses:*

**(j) "Failure to comply with provisions for the accommodation of traffic**

The failure or refusal of the Contractor to take the necessary precautions for the safety and convenience of the public as specified or instructed by the Engineer, shall be sufficient cause for the suspension of all work under this Contract without any additional compensation to the Contractor until the required accommodation of traffic has been completed to the satisfaction of the Engineer.

The above shall be sufficient cause for the Engineer to deduct penalties as follows:

A fixed penalty of **R 500** per occurrence shall be deducted for each and every occurrence of non-compliance with any of the requirements of Section 1500 of the Standard Specifications and Section B1500 of the Scope of Works.

In addition a time-related penalty of **R 300** per day over and above the fixed penalty shall be deducted for non-compliance to rectify any defects in the accommodation of traffic within the allowable time after an instruction to this effect has been given by the Engineer. The Engineer's instruction shall state the allowable time, which shall be the time in hours for reinstatement of the defects. Should the Contractor fail to adhere to this instruction, the time-related penalty shall be applied from the time the instruction was given.

**(k) Extension of time for completion**

Accommodation of public traffic on the works or any delays caused thereby, as well as any suspensions due to failure by the Contractor to comply with the provisions for the accommodation of traffic, will not be regarded as special circumstances for the extension of time.

**(l) Traffic safety equipment for the Engineer**

The Engineer shall be provided with the following traffic safety equipment:

**(i) Amber flashing lights**

The Contractor shall provide the Engineer and the Engineer's Representative with amber rotating warning lights. All lights shall be operational whenever the vehicles operate within the road reserve. All lights shall have a minimum height of 200 mm and 50 watt output, be of the revolving reflector type and shall have a magnetic base, flexible cable and a connection suitable for insertion into a 12V automobile cigarette lighter socket.

**(ii) Construction sticker**

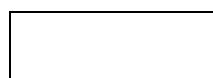
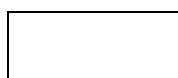
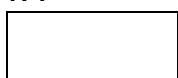
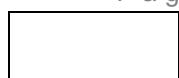
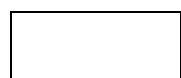
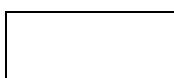
The Contractor shall supply the Engineer and the Engineer's Representative with magnetic "construction" stickers. The stickers must read "CONSTRUCTION VEHICLE" in 170 mm letters on a prominent background.

**(iii) Safety jackets**

The Contractor shall provide the Engineer, the Engineer's Representative and visitors with safety jackets for moving around on site. The jackets shall be of an approved type, orange in colour and shall be to the approval of the Engineer. The Contractor is to allow for ten jackets.

**(iv) Hard hats**

The Contractor shall provide the Engineer and visitors with hard hats for moving around on site where they may be required. The Contractor is to allow for ten hard hats.



No additional payment will be made for the above items and the costs will be deemed to be inclusive in the establishment costs."

**B1503 TEMPORARY TRAFFIC-CONTROL FACILITIES**

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

"The Contractor shall provide, erect and maintain the necessary traffic-control devices including the Variable Message Trailer/s (VMT), road signs, channelization devices, barricades, warning devices and road markings (hereinafter referred to as traffic-control devices) in accordance with these special provisions and as shown on the drawings and the South African Road Traffic Signs Manual, in particular, in Chapter 13 of Volume 2 and remove them when no longer required. It shall be incumbent upon the Contractor to see to it that the abovementioned traffic-control devices are present where required at all times and are functioning properly, and he shall replace any that have been damaged, lost, stolen or obliterated at his own cost."

*Replace the third paragraph with the following:*

"The type of construction, spacing and placement of traffic-control devices shall be in accordance with Chapter 13 of Volume 2 of the South African Road Traffic Signs Manual. The recommended arrangements of the traffic control devices illustrated in Chapter 13 of Volume 2 of the South African Road Traffic Signs Manual shall not be departed from without prior approval of the Engineer. The arrangements expected to be most commonly used in the Contract are set out in the Routine Road Maintenance Procedures Manual of the Department of Roads and Public Works of the Eastern Province.

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

**(b) Road signs and barricades**

*Add the following:*

"No work may proceed on any section where accommodation of traffic is required until such time as the relevant requirements with regards to signposting are met and written approval of the Engineer is obtained. The Contractor shall keep sufficient surplus signs, delineators and barricades on the site to allow for the immediate replacement of damaged or missing items, in any case, within three hours of instructions having been given by the Engineer. Delineators shall be of the flexible plastic reversible variety and not of the rigid metal variety.

Should the Contractor fail to respond to an instruction to re-erect a road sign within three hours or fail to comply with the requirements, the work on that section may be suspended without any compensation to the Contractor.

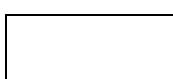
No separate payment items will be scheduled for the provision, erection and relocation of any signage, barricades, traffic control devices required to execute the works and these will be deemed to have been included in the rates of the different maintenance / construction activities."

**(c) Channelisation devices and barricades**

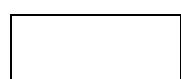
*Add the following paragraphs:*

"Delineators shall be of plastic and shall be capable of withstanding winds caused by passing traffic in typical working conditions without falling over. To achieve this, the base shall be ballasted using sand bags.

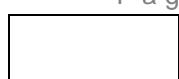
Traffic cones manufactured in a fluorescent red-orange or red plastic material shall be used



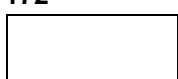
Contractor



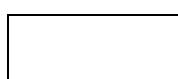
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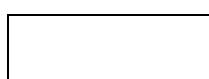
Witness 2



Employer



Witness 1



Witness 2

only at short term lane deviations during daylight. Cones used on all deviations shall be 750 mm high. Lane closures which continue into the night time shall be demarcated by delineators only."

**(e) Warning devices**

*Add the following:*

"All construction vehicles and plant used on the works shall be equipped with rotating amber flashing lights and warning boards as specified. Rotating lights shall have an amber lens of minimum height of 200 mm and shall be mounted to ensure clear visibility from all directions. The lights on construction vehicles shall not be switched on while vehicles are being operated on unrestricted sections of a public road, but shall be switched on while construction vehicles are operating within the accommodation of traffic area, as the vehicles decelerate to enter a construction area, and as the vehicles accelerate to the general speed when entering the road from a construction area. Lights on plant shall operate continuously while the plant is working alongside sections of road open to public traffic.

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

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

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

**B1517 MEASUREMENT AND PAYMENT**

*Delete the contents of this clause and replace with the following:*

"Accommodation of traffic will not be paid for separately and any costs associated with it, unless expressly stated and allowed for, must be included in the rates of the various items where accommodation of traffic is required."

**SECTION 1600: OVERHAUL**

**B1602 DEFINITIONS**

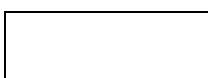
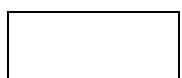
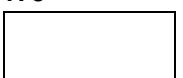
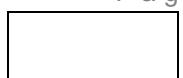
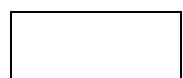
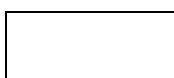
**(b) Free-haul distance**

*Replace Sub Clause 1602(b) with the following:*

*"Overhaul shall only be paid on material which is been transported further than free-haul distance of one kilometre. Pay Item 16.01 will not be applicable to this contract.*

All overhaul on material transported further than 2.0 km will be measured as the product of the volume of material transported and the additional transport distance involved, as defined in Sub-clause 1602(e).

Overhaul is not applicable to material obtained from a commercial source"



**SECTION 1700: CLEARING AND GRUBBING****B1702 DESCRIPTION OF THE WORK****(b) Grubbing**

*Delete the contents of this Clause and replace with the following.*

“ In the road reserve all stumps and roots are to be cut to the following heights above ground level and are to be treated with Garlan 4 with Red Dye:

- 0m to 3m from the edge of roadway : - Flush with the natural ground level
- 3m to 9m from the edge of roadway: - Maximum height of 100mm above the natural ground level.

All trees of girth larger than 0,5m will not be measured separately and will be deemed inclusive of the rate.”

*Add the following new Clause*

**(c) “Conversation of topsoil”**

“The topsoil up to a depth of 150 mm, if available and approved by the Engineer, shall be removed from the above specified cleared areas and stockpiled not higher than 2m on approved sites for later reuse. Until required for spreading, the stockpiles of topsoil material shall be stabilized by watering or other approved means to limit dust pollution”.

**B1703 EXECUTION OF WORK**

*Add the following new Clause*

**(b) “Areas to be cleared”**

The total road reserve width shall be cleared. The Contractor shall only be paid for areas cleared, where authorised by the Engineer.

*Add the following new Clause*

**(b) “Cutting of trees”**

No trees with a trunk girth of more than 1 m shall be removed without the written permission of the Engineer.

*Add the following new Clause*

**(c) “Disposal of material”**

Unless otherwise ordered by the Engineer, the Contractor shall dispose of material resulting from clearing and demolition operations at a site to be determined by the Contractor. Such a site shall have the approval of the Engineer, the Local Authority and the Environmental Officer. Payment for the clearing, loading, transport, dumping fees and any other requirement or costs incurred shall be included in the rate submitted.

The Contractor may be sharing the spoil site with other contractors working in the same area. A site management plan shall be followed by all contractors working in the area. Material shall be dumped in an organised manner and worked off to the satisfaction of the Engineer and Local Authority.

*Add the following new Clause*

## (f) "Clearing and grubbing narrow widths"

The Engineer may require clearing and grubbing of narrow widths between 0.5 and 5m wide to be conducted adjacent to existing roadways in order for them to be widened, or for the construction of new drains and mitre drains. The description and execution of the works will be conducted in the same manner as set out in sections 1702 (a), (b) and 1703 (a)."

**B1704 MEASUREMENT AND PAYMENT**

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

*Add the following paragraph:*

"The rate shall also allow for the gathering, cutting up, shredding if required, loading, transporting and

disposing of at local villages located along the said roadways."

Item	Unit
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**B17.02 Removal and grubbing of large trees and tree stumps** ..... Number (No)

*Add the following:*

"Clearing and grubbing for the tree trunks more than 1m shall be removed without written permission of the Engineer. Payment shall be regarded as included in the rates tendered for the applicable items for the abovementioned work".

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

**B17.04 Clearing and grubbing at inlets and outlets of hydraulic structure**...square metre (m<sup>2</sup>)

*Add the following:*

Payment shall be regarded as included in the rates tendered for the applicable items for the abovementioned work".

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

**B17.05 Clearing out of hydraulic structures**.....cubic metre (m<sup>3</sup>)

*Add the following:*

*Payment shall be regarded as included in the rates tendered for the applicable items for the abovementioned work".*

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

**B17.06 Removal of undesired vegetation** .....square metre (m<sup>2</sup>)

The unit of measurement shall be square metres of ground cleared using mechanical or manual labour methods, to selectively remove undesirable vegetation as instructed by the Engineer, including trees with a girth of up to and including 0,5m.

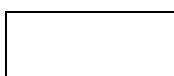
The removal of undesirable vegetation within areas designated for Clear and Grub (Item17.01 and 17.04) will not be paid for separately under this item.

The removal of undesirable trees with a girth in excess of 0,5m will be paid under item 17.02.

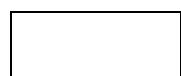
The tendered rate shall include for cutting the off-cuts into manageable sizes, loading, off-loading and spreading and hauling with a free haul distance of 1,0km.

Item	Unit
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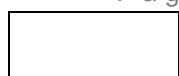
**B17.07 Clearing and grubbing narrow widths** .....square metre (m<sup>2</sup>)



Contractor



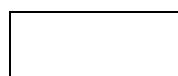
Witness 1



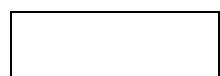
Witness 2



Employer



Witness 1



Witness 2

The unit of measurement shall be square metres of ground cleared and grubbed as directed by the Engineer. This activity is only to take place under the written instruction of the Engineer.

The tendered rate shall include for all work necessary for clearing and grubbing the surface in narrow widths, the removal and grubbing of trees and tree stumps ( except large trees and stumps as defined and measured separately ), cutting branches, backfilling of cavities, and the removal, transportation and disposal of material, all as specified.

**Item** ..... **Unit**

**B17.08 Removal and Conversation of topsoil** ..... square metre (m<sup>2</sup>)

The unit of measurement shall be square metres.

The tendered rate shall be for the removal of in situ topsoil and shall also cover the cost of stabilizing and protecting the stockpile of topsoil.

**Item** ..... **Unit**

**B17.09 Mechanical cleaning of hydraulic structures, pipes and portal culverts .. hour (hr)**

The unit of measurement shall be the number of hours of operation of a high pressure jetting machine (minimum pressure 120 bar and flow rate of 260 l/min) as instructed by the Engineer. Non-working hours for transport, breakdown, lack of operator or any other reason shall not be measured.

The tendered rate shall be an all-inclusive charge for the use of the plant and operator, transport costs to and from the site and all other handling costs, profit and other charges. The tendered rate shall also allow for loading the materials onto trucks, for transporting the material within a free-haul distance of 1,0km and for spoiling the material to a site agreed to with the Engineer.

**Item** ..... **Unit**

**B17.10 Shredding of vegetation cuttings in situ** ..... cubic metre (m<sup>3</sup>)

The unit of measurement shall be the volume of shredded vegetation generated from the cuttings, the volume determined from the rated capacity of the truck or container used to remove the shredded material.

The tendered rate shall include full compensation for all plant, labour and materials for stockpiling the cut material, loading and shredding and final loading of shredded vegetation onto trucks off loading and spreading and hauling with a free haul distance of 1,0km or stockpile as directed."

**SECTION 1900: DAYWORKS****CONTENTS**

- B1901 SCOPE
- B1902 ORDERING OF DAYWORK
- B1903 MEASUREMENT AND PAYMENT

**B1901 SCOPE**

This Section covers the listing of day work items in accordance with the General Conditions of Contract (Clause 6.5.1) for determining payment for work which cannot be quantified in specific units in the Bill of Quantities, or work ordered by the Engineer during the construction period which was not foreseen at tender stage and for which no applicable rate exists in the Bill of Quantities.

**B1902 ORDERING OF DAYWORK**

No dayworks shall be undertaken unless written authorisation has been obtained from the Engineer.

**B1903 MEASUREMENT AND PAYMENT**

Item	Unit
<b>B19.01 Personnel</b>	
(a) Unskilled labour .....	hour (hr)
(b) Semi-skilled labour.....	hour (hr)
(c) Skilled labour .....	hour (hr)
(d) Ganger .....	hour (hr)
(e) Flagmen .....	hour (hr)

Item	Unit
<b>B19.02 Plant</b>	
(a) Flat bed truck (specify size) .....	hour (h)
(b) Tipper Trucks - 3 to 5 ton capacity .....	hour (h)
(c) Tipper Trucks - More than 5 ton .....	hour (h)
(d) Loader (0,5m <sup>3</sup> ) bucket .....	hour (h)
(e) TLB ( digger loader ) .....	hour (h)
(f) Excavator. (20-30 ton) .....	hour (h)
(g) Grader (AT 140 G or similar) .....	hour (h)
(h) Compactor (Bomag 90) .....	hour (h)
(i) Water truck (5000 litre) .....	hour (h)
(j) Dozer (D7 or similar) .....	hour (h)
(k) Mechanical broom .....	hour (h)
(l) Tractor-trailor combination (43 kW, 3 ton min) .....	hour (h)
(m) Suitable truck/bus for transporting labourers (30 people minimum) .....	hour (h)
(n) Safety vehicle for pre-marking purposes .....	hour (h)
(o) Compressor (air) including hoses and tools (specify) .....	hour (h)
(p) Dewatering pump including generators and accessories (specify size) .....	hour (h)
(q) Mobile electric welding sets and accessories (specify size) .....	hour (h)
(r) Cutting torch with mobile electric & oxy acetylene installation .....	hour (h)
(s) Mobile concrete mixers (specify size) .....	hour (h)
(t) Light delivery vehicle (LDV) .....	hour (h)
(u) Centre-mount crane (specify size) .....	hour (h)
(v) Low bed truck (specify size).....	hour (h)

(w) Other (specify)..... hour (h)

Item	Unit
<b>B19.03 Materials</b>	
(a) Procurement of materials.....	provisional sum
(b) Contractor's handling costs, profit and all other charges in respect of Item B19.03 (a).....	percentage (%)

The unit of measurement for items B19.01 and B19.02 shall be the hour for the item of plant or personnel. Non working hours for transport breakdown, lack of operator or any other reason shall not be measured. The time shall be taken from the time that the personnel and/or plant depart until return.

Measurement shall only be for work instructed and directed by the Engineer, where the Engineer considers no other appropriate rate is available in the Bill of Quantities. Prior to the commencement of any work by the labourers described under item B19.01, the Contractor must obtain written consent from the Engineer regarding the classification of all labourers in terms of "unskilled", "semi-skilled" and "skilled" labourers.

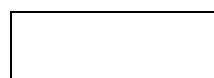
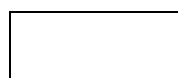
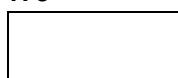
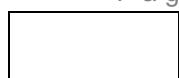
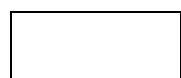
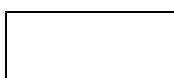
The tendered rates for labour for item B19.01 shall include full compensation to cover overhead charges and profit, leave pay, bonuses, subsistence, allowances, employer's contributions, additional payment for overtime, where applicable, insurances, housing, site supervision, use of small hand tools and appliances, non-mechanical plant and equipment and consumable stores, for all administrative, supervisory, operative and contingent costs, relating to the supply of personnel.

The tendered rates for plant for item B19.02 shall be an all-inclusive hire charge for the use of the vehicle and driver or plant/equipment and operator and shall apply only to vehicles plant and equipment nominated in writing by the Engineer, for all administrative, supervisory operative and contingent cost, and profit, relating to the running of the plant.

The unit of measurement for item B19.03 (a) shall be the amount actually paid for the procurement of materials to be purchased and shall be made in accordance with the provision of the general conditions of Contract. Only the actual quantities of materials used, as verified by the Engineer, shall be paid for.

The percentage tendered for item B19.03 (b) shall be percentage of the amounts actually paid for the procurement of materials as ordered under item B19.03 (a) and shall be in full and final compensation in respect of the Contractor's handling costs, profit and all other charges in connection with the procurement and supply of the materials to the point of usage.

The abovementioned tendered rates shall be full compensation for the various items as specified and no further profit shall be paid."



**SECTION 2100: DRAINS****B2101 SCOPE**

*Replace the first paragraph with the following:*

“This Section covers all the activities for rehabilitative, new and maintenance work in connection with the excavation and construction of open drains, subsoil drainage and banks and dykes at the location and to the sizes, shapes, grades and dimensions shown on the drawings or as directed by the Engineer, and the test flushing of the subsoil drains.”

**B2102 OPEN DRAINS**

*Add the following subclause:*

**“(h) Concrete channels, kerb-and channel combinations, concrete side drains and median drains**

Concrete channels shall be cleaned when instructed by the Engineer. Material from the channels, kerb-and-channel combinations, side drains in cut and median drains shall either be loaded and transported to designated spoil sites or disposed of adjacent to channels where it cannot be washed back into the channel within the road reserve as directed by the Engineer.

Vegetation growing in channel joints and cracks shall be removed with roots to prevent re-growth. Vegetation growing over channels from the edges shall be trimmed at the concrete edges and disposed of. Undesirable vegetation shall be removed with roots and spoiled where directed by the Engineer.

Concrete drainage channels shall be clear of any obstruction such that the concrete surfaces are clearly visible. All concrete drains and channels, chutes and the like are to be swept after all obstructions and debris has been removed. Silt, debris and vegetation removed shall not be thrown up against cut or down fill slopes.”

**B2104 SUBSOIL DRAINAGE**

*Add the following new clauses:*

**“(d) Exposing existing subsoil pipes**

Where instructed by the Engineer, existing subsoil pipes shall be exposed for inspection. The material on top of the pipe shall be carefully removed by hand. Care shall be taken not to damage the filter fabric and pipe during excavation.

Repair work, if required, shall be carried out as directed by the Engineer. It may involve the replacement of the existing pipe and the backfill with material similar to that encountered in the existing system.

**“(e) Draining of distressed areas**

Where the presence of subsurface water has caused failures of the pavement layers the Engineer may require the installation of subsoil drains through the road to drain the excavation before re-instatement of the pavement layers.

The subsoil drainage system to be installed shall be as instructed by the Engineer.

Where asphalt premix is to be removed for the installation of a subsoil drain the asphalt shall be cut neatly and perpendicular with approved sawing equipment to the width instructed by the Engineer before excavation.



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

Payment for the excavation of the asphalt premix layers and the reconstruction of the pavement layers shall be made under the relevant sections.

**(f) Maintenance of subsoil drains**

When instructed by the Engineer, blocked subsoil drains shall be unblocked by rodding through rodding eyes provided for the purpose and thorough flushing of the pipes.

Should the Contractor notice the existence of blocked or damaged subsoil drains, the Engineer shall be duly notified to issue an instruction for the execution of the relevant maintenance work."

**B2107 MEASUREMENT AND PAYMENT**

Item	Unit
<b>B21.01 Excavation for open drains.....</b>	cubic metre (m <sup>3</sup> )

*Add the following to the penultimate paragraph:*

"The tendered rate shall also include full compensation for trimming the open drains. Only those drains designated by the Engineer for excavation will be measured. The above rate will be deemed inclusive where blading is specified in Section 3400, and will not be measured separately.

Where blading or road bed preparation is specified (Section 3400), payment for the formation of side and mitre drains up to the road reserve will be included in the blading or road bed preparation rate. However, where new drains are to be constructed to extend beyond the road reserve limits, payment will be made under this item for the length of drain outside the road reserve."

Item	Unit
<b>B21.02 Clearing and shaping existing open drains .....</b>	cubic metre (m <sup>3</sup> )

*Add the following to the penultimate paragraph:*

"The tendered rate shall also include full compensation for trimming the open drains. Only those drains designated by the Engineer for clearing and shaping will be measured. The above rate will be deemed inclusive where blading is specified in Section 3400, and will not be measured separately.

Where blading is specified (Section 3400), payment for the formation and clearing of side and mitre drains within the road reserve will be included in the blading rate. However, where drains extend beyond the road reserve limits, payment will be made under this item for the length of drain outside the road reserve."

*Add the following new items:*

Item	Unit
<b>B21.15 Overhaul for material hauled in excess of 1,0km free-haul (normal overhaul).....</b>	meter (m <sup>3</sup> /km)

The unit of measurement and payment for overhauling material shall be in accordance with section 1600.

*Delete item 21.18 and replace with the following:*

Item	Unit
<b>B21.18 Clearing of concrete drainage channels</b>	
(a) Side drains, median drains and the like .....	square metre (m <sup>2</sup> )
(b) Channels in kerbing-channeling combinations .....	metre (m)
(c) Other drains and channels within the following invert ranges	



(i)	Less than 1.0m .....	square metre (m <sup>2</sup> )
(ii)	1.0m to 2.0m.....	square metre (m <sup>2</sup> )
(iii)	2.0m to 3.0m.....	square metre (m <sup>2</sup> )
(iv)	Exceeding 3.0m .....	square metre (m <sup>2</sup> )

The unit of measurement shall be the square metre of channel cleared, measured in plan (no payment shall be made for vertical surfaces).

The tendered rates shall include full compensation for all labour plant and equipment required for removing the material from the channels irrespective of the depth of silt and debris and for loading, protecting the existing drains and channels, dealing with any surface or sub-surface water, off-loading and spreading when material removed is intended for spoiling at a designated spoil site.

The tendered rates shall include for transporting the excavated material to spoil sites within a free haul distance of 1,0km.

Where material is disposed of adjacent to channels, the tendered rate shall include full compensation for removing the material from the channels, irrespective of the depth of silt and debris, protecting the existing drains and channels, dealing with any surface or sub-surface water, spoiling and spreading the material adjacent to the channel where it cannot be washed back into the channel."

**Item .....Unit**  
**B21.16 Excavation for the clearing of existing concrete drainage channels**

(a)	Manholes, inlet and outlet structures .....	cubic metre (m <sup>3</sup> )
(b)	Culvert barrels.....	cubic metre (m <sup>3</sup> )
(c)	Concrete side drains .....	cubic metre (m <sup>3</sup> )

The unit of measurement shall be cubic metre of material excavated and removed, measured in place before excavation.

The tendered rate shall include full compensation for excavating the material, protecting the existing drainage structures, dealing with any surface or subsurfaces water.

**Item .....Unit**  
**B21.18 ..... cubic metre (m<sup>3</sup>)**

The unit of measurement shall be cubic metre of compacted material and the quantity shall be calculated from the authorized dimensions given on the drawings.

The tendered rate shall include full compensation for procuring, as if from soft excavation for borrowpits, breaking down, placing and compacting the material in 150mm layers, transporting for a free haul distance of 1.0km, and for shaping the top surface in accordance with the drawings.

**Item .....Unit**  
**B21.19 Selected backfill material under concrete-lined side drains compacted to 93% of modified AASHTO density.....cubic metre (m<sup>3</sup>)**

The unit of measurement shall be cubic metre of compacted material and the quantity shall be calculated from the authorized dimensions given on the drawings.

The tendered rate shall include full compensation for procuring, as if from soft excavation for borrowpits, breaking down, placing and compacting the material in 150mm layers, transporting for a free haul distance of 1.0km, and for shaping the top surface in accordance with the drawings.

*Add the following new items:*

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

**B21.20 Clearing and shaping side and mitre drains by road grader .....** meter (m)

The unit of measurement shall be the linear meter of mitre and side drain formed, cleared, opened up and shaped. The length of mitre drain will be measured from the outside of the side road drain to the approved extremity of the mitre drain. Only those mitre and side drains designated by the Engineer for clearing and shaping will be measured. Where blading is specified (Section 3400), payment for the formation and clearing of side and mitre drains up to the road reserve will be included in the blading rate. However, where roads extend beyond the road reserve limits, payment will be made under this item for the length of drain outside the road reserve.”

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

**B21.21 Exposing of existing subsoil drains .....** (m<sup>3</sup>)

The unit of measurement shall be the cubic meter of material removed by hand to expose the drain.

The rate tendered shall include for full compensation for all labour and tools required for removing the material. The re-instatement of the drain shall be paid for under the relevant items for constructing a new drain.

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

**B21.22 Clearing of subsoil drains.....** (m)

The unit of measurement shall be meter of drain cleared on the instruction of the Engineer.

The tendered rate shall include full compensation for all labour equipment, tools and transport required for clearing subsoil drains and for disposal of the cleared material at approved sites.”

**SECTION 2200: PREFABRICATED CULVERTS****B2201 SCOPE**

*Amend the first paragraph to read:*

“This Section covers all the activities in connection with the construction and maintenance of prefabricated units of culverts and other closed conduits such as storm water ducts, tremies and service ducts, together with inlet and outlet structures, manholes and other appurtenant structures.”

**B2203 MATERIALS****(b) Portal and rectangular prefabricated concrete culvert units**

*Add the following:*

“Should a pipe unit be specified as half of the standard length, the actual length of the unit will be measured for payment as it is accepted that only certain lengths are available from the manufacturers. The tendered rate for concrete pipe culverts shall also include any additional costs with respect to units that are half the standard length. The standard length of a concrete pipe will be taken as 2,44m or 2,5m depending on supplier. All pipe joints are to be wrapped with U24 Bedum or similar approved material. The cost of the wrapping of the joints will be deemed to be inclusive in the installation rate of the pipe.”

**(d) Fine granular material**

*Add the following:*

“Fine granular bedding material shall comply with the requirements of the Engineer.”

**B2206 PREPARATION FOR CONSTRUCTION BY EMBANKMENT METHOD****MATERIALS**

*Add the following:*

“Where trenches cross existing surfaced roads the following will apply:

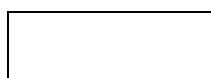
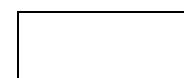
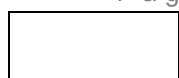
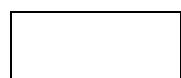
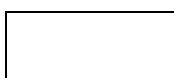
1. The service (pipe, cable etc.) shall be laid on a bedding cradle, and covered with a fill blanket, as specified in Section 2200 Prefabricated Culverts (Bedding - Pipes) or in the Project Specification.

The rate for placing and compacting bedding and blanket material shall be included in the items for excavation and backfilling. No additional payment will be made for placing and compacting bedding and blanket using material selected from trench excavations. Where material excavated from trenches is unsuitable for backfill bedding or blanket material and suitable material cannot be reasonably selected from adjacent trench excavations or stockpiles within free haul distance on the site, then the Engineer will order the use of material from commercial sources.

The remaining portion of the trench, from the top of the fill blanket to the road surface, shall be filled with cellular trench backfill material.

(a) The specification for this material is as follows:-

- (i) Definition : Material shall consist of a cellular light-weight concrete incorporating large volumes of controlled micro-air cement and sand.
- (ii) Density Range : 150 - 1400 kg/m<sup>3</sup> and have an equivalent CBR value greater than 100.
- (iii) Consistency : Material shall be of a pickable nature after final setting.



(iv) Admixture : The admixture is a pre-foam organic compound accelerated by the addition of calcium chloride. Chloride free additive must be used where the outer casing of the service being covered is metallic.

(v) Setting Times : The finished product must achieve initial set within 90 minutes. It must then be able to carry light traffic.

(vi) Specification : British Standards draft S.W.P. 146 of July 1990.

(b) The cellular backfill material (hereinafter called "trenchfill") is ordered from the supplier, and is delivered to site in a truck-mixer. The material is poured directly into the trench, and no vibrating or additional compaction is necessary.

(c) The trenchfill shall be cast flush with the surrounding road surface, and trowelled to an even surface.

(d) After the trenchfill has set, either the same day or the following day, the top 40mm of the trenchfill must be scabbled off using a pick, or paving breaker and the depression reinstated using 40mm gap graded hot asphalt. After compaction, the asphalt must be finished flush with the surrounding road surface.

(e) During the time period between pouring the trenchfill into the trench, and the setting of this material, it is imperative that no person or animal be allowed to gain access to the trench. Suitable barricades shall be provided around the trench and a guard placed on duty at the trench until the material sets.

Should the trenchfill not be set by nightfall, safety lamps shall be placed on the barricades.

The responsibility for public safety lies with the organisation carrying out the excavation and backfill operations.

## B2207 UNSUITABLE FOUNDING CONDITION

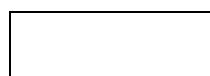
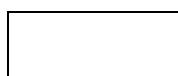
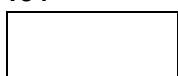
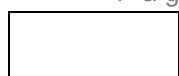
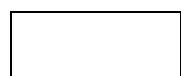
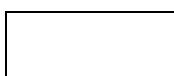
### MATERIALS

*Add the following:*

"Notwithstanding Subclause 3303 of COLTO, in terms of which the Contractor has a choice regarding methods of selection, the Contractor is required to use selective methods of excavation. The Contractor shall selectively remove and keep separate the sandy material from unsuitable material and place it adjacent to the trench for reuse as backfill, selected fill, selected granular material or for other use as ordered by the Engineer.

Material which, in terms of Subclause 2203 of COLTO, is too wet for immediate use in the trench (but which is otherwise suitable) will not be regarded as "unsuitable" material and, if so ordered by the Engineer, the Contractor shall spread such material in a suitable area until it has dried sufficiently for later use. Should the material which is replaced in the trench become too wet again, due to the fact that the Contractor made insufficient provision for the handling and removal of groundwater in accordance with Subclause 2207, the Contractor shall replace the material at his own cost with material which is, in the opinion of the Engineer, suitable.

When preparing his programme and construction methods, the Contractor shall make allowance for selective excavation and the handling and drying out of material which is too wet for immediate use. Unless otherwise ordered by the Engineer, all excavated material from pipe trenches shall be kept within the road reserve, but not on the roadway. The toe of the bank of excavated material shall be trimmed well back from the edge of the trench so as to leave a minimum 0.6 m clearance between



the toe of the bank and the edge of the trench. The Contractor shall keep this strip clear of excavated material at all times.

The Contractor shall take steps to avoid burying or contaminating topsoil which shall be set aside for replacing, as far as practical, on the surface from which it was excavated.

## B2207 EXECUTION OF WORK

### (a) Stormwater, seepage and dewatering excavations

*Add the following:*

“In addition to the Contractor’s responsibilities for dealing with water, the Engineer may order the Contractor to place a crushed stone bedding layer (minimum thickness 150 mm) on the trench bottom. Should the trench bottom conditions remain unstable due to the nature of the soil and the degree of saturation, the Engineer may order the Contractor to install a filter fabric on the trench bottom prior to the provision of the stone layer. Should the material in the trench bottom or the bedding material be of such a nature that it can penetrate the stone layer; the Engineer may instruct the Contractor to enclose the stone layer completely within a geotextile filter blanket which shall comply with the requirements below, and shall have overlaps of at least 200 mm.

The Contractor will only be paid by providing and laying the stone bedding layer and filter fabric after receipt of a written order to do so from the Engineer.

The cost of dealing with water as specified in Sub-clause 2207a, as amended will be held to have been included in the tendered sums.

### (b) Stone bedding in water-logged conditions

*Add the following:*

“Where the use of a layer of crushed stone in the trench bottom has been authorized by the Engineer, it will be measured by volume calculated according to length multiplied by the minimum base width and specified thickness. The tendered rate shall cover the cost of preparation of the trench bottom to accommodate the layer of stone, the supply and placing of the layer of stone over at least the specified width and all related activities in order to produce a stable platform.

### (c) Minimum base widths

*Add the following:*

“Notwithstanding the requirements of clause 2207(c) the minimum widths for trenches shall be as detailed in the Schedule of Quantities. OR

A side allowance of 300 mm shall be applicable to all pipes unless amended by the Engineer.

### (d) Trench bottom

*Add the following:*

“Where the Contractor’s method of working results in quagmire conditions in the trench bottom, the Contractor shall excavate and stabilize the trench at his own cost to the approval of the Engineer.

## B2208 CLASSIFICATION OF EXCAVATION MATERIALS

*Add the following:*

“For mechanical excavation the classification shall be as specified in Section 3300 Mass Earthwork (Excavations), as amended.

## B2209 DISPOSAL OF EXCAVATED MATERIAL

## MATERIALS

*Add the following:*

“All surplus material and unsuitable material not required for backfilling shall be disposed of at suitable sites to be located by the Contractor. All such sites shall require the approval of the Engineer and the Local Authority. No additional payment will be made for the transportation of such material’. Dumping shall proceed in an orderly manner with coarse material placed at the bottom and covered with finer material, where possible. Upon completion of dumping the material shall be shaped to provide free-draining surfaces and slopes and finished off to the satisfaction of the Engineer. Also see clause 1703(C).

### B2210 LAYING AND BEDDING OF PREFABRICATED CULVERTS MATERIALS

#### (b) Portal and rectangular prefabricated concrete culvert units

*Add the following:*

“All pipes should be laid as per class B and C bedding classes.”

“Selected bedding material shall comply with the following requirements”:

A maximum particle size of 20 mm

A minimum grading modulus of 0, 5

A minimum CBR of 15% at 93% of modified AASHTO maximum density

A maximum plasticity index of 10.

The Bedding shall be compacted to at least 93% of modified AASHTO maximum density (100% for sand).

### B2211 BACKFILLING OF PREFABRICATED CULVERTS

*Add the following:*

“Selected fill material shall be free from vegetation and from lumps and stones of diameter exceeding 30 mm, and shall be obtained from the trench excavations or other necessary excavations on the site, on the approval of the Engineer. The material shall have a PI<6”.

### B2212 INLET AND OUTLET STRUCTURES, CATCHPITS AND MANHOLES

#### (a) Excavation and backfilling

*Amend the first paragraph to read as follows:*

“The width of excavation shall be the net external dimensions of structure plus 0,5 meter working space along or around the structure. The specifications given elsewhere in this Section for backfilling the culverts shall apply mutatis mutandis to inlet and outlet structures, catchpits and manholes. If wet soilcrete is used with vibrators the extra working space can be reduced to 150 mm.”

*Add the following subclause:*

#### (c) Bricks

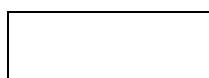
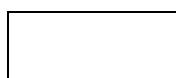
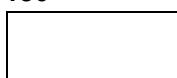
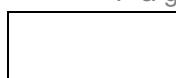
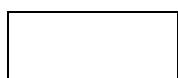
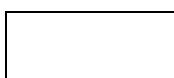
“Bricks used in stormwater structures shall be Burnt clay engineering bricks, having a nominal compressive strength of 28 MPa, and complying with the requirements of SABS 227”.

*Add the following subclause:*

#### (f) Prefabricated concrete chambers and shaft

“Pipes with interlocking joints, where they pass under roads and also on curved pipelines in verges, shall be wrapped with two layers of hessian soaked in cementitious grout. The wrapping shall be 400mm wide and placed centrally over each joint.

Unless otherwise stated in the Schedule of Quantities or indicated on the drawing, pipes with interlocking joints shall be used”.



"Lifting holes should be suitably closed off to prevent the ingress of soil".

*Amend the following subclause:*

**(g) Benching**

"The concrete topping should consist of a 1:2:3 cement, sand and 7mm stone mix by weight. The sand proportion may be varied between 1, 5 and 2, 5 to obtain ideal workability."

*Add the following clause:*

**"B2215 SERVICE DUCTS**

**MATERIALS**

**(a) Ducts**

*Add the following:*

"Ducts for electrical services shall be UPVC "Kabelflex" 160mm dia, supplied by the Contractor. The rate tendered by the Contractor shall include for installation of draw-wires and end caps".

**(b) Bedding**

*Add the following:*

"The provisions of Section 2200 Prefabricated Culverts (Pipes bedding) and the relevant project specification shall apply mutatis mutandis and payment shall be made under the appropriate payment clauses of Section 2200".

**(c) Backfilling**

*Add the following:*

"The provisions of Section 2200 Prefabricated Culverts backfilling (Pipes) and the relevant project specification shall apply mutatis mutandis and payment shall be made under the appropriate payment clauses of Section 2200".

**(d) Cable duct marker**

*Add the following:*

"Cable duct markers shall be provided as specified in Sub-clause 2215".

**EXECUTION OF WORK**

**(a) Excavation of trenches**

*Add the following:*

"Trench width shall be in accordance with the provisions of section 3300: Mass Earthworks (Excavations). The minimum depth of cover over ducts shall be 600 mm from the final road level".

**(b) Excavation of trenches at road crossings**

*Add the following:*

"The minimum depth of cover over ducts shall be 600 mm where construction traffic is liable to cross them. Road crossings shall therefore be constructed after the construction of the roadworks has reached the stage where the required cover is available".

**(c) Bedding and compaction of bedding**

*Add the following:*

"All ducts shall be laid on a Class C bedding according to the provisions of Section 2200 Prefabricated Culverts (Pipes bedding). Backfilling shall be according to the provisions of section 3300: Mass Earthworks (Excavations)."

**(d) Backfilling and compaction**

*Add the following:*

"As for the reinstatement of road crossings.

**(e) Road crossing**

*Add the following:*

"Ducts for road crossings shall be effectively sealed by means of end caps".

**(f) Position to be marked**

*Add the following:*

"The lettering height shall be at least 70 mm.

The positions of ducts shall be marked by means of incisions on top of the kerb. The dimensions of such incisions shall be at least 40 mm long, 3 mm wide and 5 mm deep and the spacing, where more than one incision is required, shall be 20 mm. Ducts for Telkom crossings and electrical crossings shall be marked with green and red painted incisions respectively.

The draw wire, as specified in Sub-clause 2215, shall be secured to a 150 x 150 x 150 mm grade 20 MPa/19 mm concrete marker, which shall be installed with a depth of cover of 50-100 mm below the top of kerb or sidewalk level".

**(g) Draw and joint boxes for Telkom cables**

*Add the following:*

"Draw and joint boxes shall be constructed strictly in accordance with the positions and details given on the plans.

**TESTING**

*Add the following:*

"The Contractor shall, for at least one out of every five road crossings, submit density tests to the Engineer at his own expenses. The decision as to which road crossing densities shall be tested, rests with the Engineer. The Contractor shall, if such densities fail to meet the minimum requirements, prove at his expense that all the other densities do comply with the specified minimum requirements".

**B2217 STORMWATER DUCTS, TREMIES AND OTHER CLOSED CONDUITS MATERIALS (Water)**

**(a) General**

*Add the following:*

"Where the pipe diameters are indicated on the drawings or referred to in this specification they shall be held to be nominal internal diameter unless specifically stated as outside diameter".

**(b) HDPE pipes**

*Add the following:*

"HDPE pipes and fittings shall be type IV to SABS 533. All fittings used to join HDPE pipes shall be of the compression type approved by the Engineer. Take off points for erf connections shall be approved tees.

**(c) Polycop pipes and fittings**

*Add the following:*

"Polycop pipes shall be class 16 and fittings shall be brass "Conex" or approved equivalent".

**EXECUTION OF WORK**

**(a) Existing erf connections across roadway**

*Add the following:*

"The existing erf connections shall be identified and cut on both sides of the box cut at least 1.0m outside working space. After box cut, these removed sections will be lowered if necessary and replaced by the same type and diameter pipe".

*Add the following clause:*

**B2218 CONSTRUCTION TOLERANCES**

The installation of prefabricated pipes, portal and rectangular culverts and ducts shall comply with the requirements stated below:

**(a) Level**

The permissible deviation from the specified level shall be  $\pm$  20mm.

**(b) Alignment and grade**

The permissible deviation of the alignment and grade of each culvert and pipeline shall be  $\pm$  20mm from the specified line and level, or from the line between culvert or pipe inverts at successive manholes or catch pits, as applicable, when measured over any 7m length, and all such deviations shall be gradual. Reverse falls are unacceptable."

**(c) Pipes into manholes/catchpits**

Pipes may protrude up to 300mm into a manhole/catchpit. This relaxation will only be permitted if the pipe does not have to be cut. The "dead space" formed at the end of the manhole is to be suitably benched to prevent the collection of silt and rubbish.

**(d) Record details**

The Contractor shall submit record cover and invert of manholes and catchpits levels, manhole and catchpit co-ordinates, distances between manholes and the grades of pipelines for which he requires payment, at the time he submits his monthly payment claim. A sample form is obtained from the Engineer.

**B2218 MEASUREMENT AND PAYMENT**

*Add the following new items:*

Item	.....	Unit
<b>B22.01</b>	<b>Excavations</b> .....	cubic metre
	( $m^3$ )	

The unit of measurement shall be cubic metre of material excavated within the specified widths over length and depths authorised by the engineer in each case.

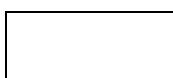
The rates for excavation of trenches shall also cover the cost of selection as specified in 2207 Selection, as amended. The costs of drying out of material suitable for bedding will be measured elsewhere.

The rate tendered for excavation in all materials shall include for intermediate material. Extra-over payment will be made for hard rock excavation provided the surface levels of the hard rock have been recorded on drawings signed by the Engineer before it is excavated.

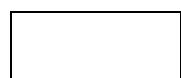
*Add the following new items:*

Item	.....	Unit
<b>B22.02</b>	<b>Backfilling</b> .....	cubic metre
	( $m^3$ )	

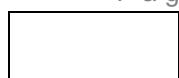
The unit of measurement shall be cubic metre of material in place after compaction. The quantity shall be calculated from the leading dimensions of the backfilling as specified by the engineer.



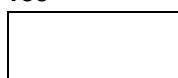
Contractor



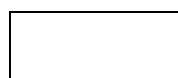
Witness 1



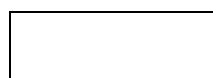
Witness 2



Employer



Witness 1



Witness 2

The tender tariff shall include full compensation for backfilling under, alongside and over conduits, for watering, and for compacting the backfill material to the specified density.

Item	.....	Unit
<b>B22.03</b>	<b>Concrete pipe culverts</b> ..... (m)	metre

The unit of measurement for concrete pipe culverts shall be the metre of culvert laid as shown on the drawings or ordered by the engineer. The length shall be measured along the soffit of the culvert.

The tender rates shall include full compensation for providing, testing, loading, transporting and unloading the culverts, for providing and placing the selected granular material, where required, and for the installation, laying and joining of the culverts, as specified.

Should it be inevitable for a section to be cut off from a concrete pipe unit of standard length, the full standard length of the unit shall be measured for payment. No additional compensation for cutting and disposing of such section will be paid.

When a half-length pipe unit is required, i.e. a pipe unit of which the length is equal to half the standard length, and provided that such half-length pipe units are normally supplied by the manufacturers, the actual length of such half-length pipe unit will be measured for payment, and no additional compensation will be paid in respect of such half-length pipe unit.

Upon payment, differentiation shall be made between the various types and sizes of culverts and between the culverts placed on A, B, C and D classes of bedding.

Item	.....	Unit
<b>B22.05</b>	<b>Portal and rectangular culverts</b> ..... (m)	metre
a)	<b>Complete with prefabricated floor slab (size and type)</b> .....	metre (m)
b)	<b>Without prefabricated floor slabs (size and type indicated)</b> .....	metre (m)

The unit of measurement for prefabricated portal or rectangular culverts shall be the metre of culvert laid as shown on the drawings or as directed by the engineer.

The length shall be measured along the soffit of the culvert.

The tender rates shall include full compensation for supplying, testing, loading, transporting and off-loading all culverts, providing and placing the fine grained material where required for installing the culverts, and installing, laying and jointing the culverts as specified, including cutting them on site and waste.

Payment will be made separately for floor slabs of cast in situ concrete.

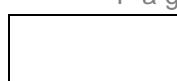
Payment shall distinguish between the different sizes and types of culverts and between culverts installed with or without prefabricated floor slabs

Item	.....	Unit
<b>B22.10</b>	<b>Steel reinforcement</b>	
b)	<b>High-tensile steel bars</b> .....	ton (t)
c)	<b>Welded steel fabric</b> .....	kilogram (kg)

Measurements and payment for steel reinforcement shall be made as specified in section 6300 of these specifications. .....

Item	.....	Unit
<b>B22.12</b>	<b>Removing existing concrete</b> ..... (m <sup>3</sup> )	cubic metre
a)	<b>Plain concrete</b> .....	cubic metre (m <sup>3</sup> )
b)	<b>Reinforced concrete</b> .....	cubic metre (m <sup>3</sup> )

The unit of measurement shall be the cubic metre of existing concrete removed. .....



The tender rates shall include full compensation for all demolition and for loading, transporting and disposing of the products of demolition, including a free-haul of 1,0km.

Payment shall distinguish between plain and reinforced concrete. For the purposes of this item, reinforced concrete shall be defined as concrete containing at least 0.2% of steel reinforcement measured by volume.

The tendered rates shall also include full compensation for cutting straight grooves of the specified depth at joint positions where shown on the drawing.

Item	.....	Unit
<b>B22.13</b>	<b>Removing and re-laying existing pipes</b> .....	metre (m)

The unit of measurement shall be metre of existing pipe removed and re-laid. .....

The tendered rates shall include full compensation for lifting, loading, transporting for a free-haul distance of 5,0km, off-loading, and laying pipes according to the specifications.

Payment for any excavation and backfilling required for the removal and relaying of existing pipes shall be made separately under items 22.01 and 22.02.

Where existing pipes are loaded, transported and used in temporary deviations, they shall not be measured for payment under this item, but payment therefor shall be made in terms of section 1500.

Item	.....	Unit
<b>B22.14</b>	<b>Removing and stacking prefabricated culverts</b> .....	metre (m)

The unit of measurement shall be metre of existing prefabricated culverts removed and stacked.

The tendered rates shall include full compensation for lifting, loading, transporting to stack, off-loading, and stacking prefabricated culverts.

Payment for any excavation and backfilling required for the removing and stacking the existing prefabricated culverts shall be made separately under items 22.01 and 22.02. The free-haul distance shall be 5,0km.

Item	.....	Unit
<b>B22.17</b>	<b>Manholes, catchpits, precast inlet and outlet structure complete</b> .....	number (No)
a)	<b>Manholes</b> .....	number (No)
c)	<b>Precast inlet structure for single pipe</b> .....	number (No)
c)	<b>Precast outlet structure for single pipe</b> .....	number (No)

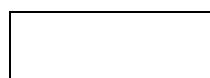
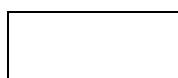
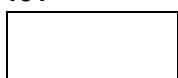
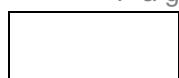
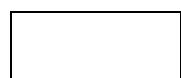
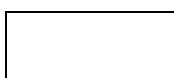
The unit of measurement, in the case of subitems (a), (b) and (c) above, shall be the complete unit as shown on the drawings, including all concrete, brickwork, covers, frames, grids and other accessories.

The tendered rates shall include full compensation for procuring, furnishing and installing, and the laying where applicable, the complete units except for excavation and backfilling, which shall be measured separately. The connecting up to and building any conduits into the walls of the various structures.

Where the above items of work cannot be conveniently standardised for payment according to complete units, the various type of work and items of material provided shall be measured

Concrete and formwork shall be measured and paid for under subitems 22.07 (c) and (d) respectively, excavation under item 22.01, and backfilling under item 22.02.

Item	.....	Unit
------	-------	------



<b>B22.21</b>	<b>Accessories</b> .....	number
	(No)	
a)	<b>Manholes cover including frames (Heavy duty)</b> .....	number (No)
b)	<b>Inlet grids including frames (heavy duty)</b> .....	number (No)

The unit of measurement shall be the number of each type of accessory delivered and installed.

The tendered rates shall include full compensation for procuring, furnishing and installing the accessories.

<b>Item</b>	.....	<b>Unit</b>
<b>B22.23</b>	<b>Service ducts</b> .....	metre (m)

The unit of measurement shall be metre of service duct laid.

The tendered rates shall include full compensation for procuring, providing, and laying the pipes, including end stoppers, draw wires and complete installation, but shall exclude excavation, backfilling, and encasing with concrete, which shall be measured for payment under the appropriate items of payment of this section.

<b>Item</b>	.....	<b>Unit</b>
<b>B22.24</b>	<b>Duct marker blocks</b> .....	number

(No)

The unit of measurement shall be the number of marker blocks installed. ....

The tendered rates shall include full compensation for manufacturing, delivering and installing the marker blocks, complete as shown on the drawing.

<b>Item</b>	.....	<b>Unit</b>
<b>B22.26</b>	<b>Hand excavation to determine the position of existing services</b> ...cubic metre (m <sup>3</sup> )	

The unit of measurement shall be the cubic metre of material excavated within the lengths and widths authorised by the engineer and the depth required to expose the service. Excavation in excess of the authorised dimensions shall not be measured for payment.

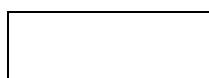
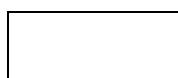
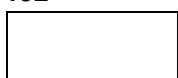
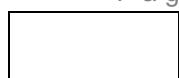
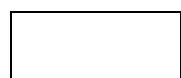
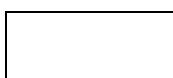
The tender rates shall include full compensation for all excavation, backfilling, compacting to 90% of modified AASHT density, disposing of any surplus excavated material, keeping the excavation safe, dealing with any surface or subsurface water, taking special care to ensure that services are not damaged in any way and any other operation necessary for completing the work. The tender rate shall also include the transporting of surplus excavated material for a freehaul distance of 1.0km. Any damage to a service caused by the contractor shall be repaired at his own cost, to the satisfaction of the owner of the service and the engineer.

No distinction will be made between hard and soft material, neither will distinction be made between the various types of services to be exposed or depths to which excavations are taken.

<b>Item</b>	.....	<b>Unit</b>
<b>B22.27</b>	<b>Reinstating trenches crossing the roads</b> .....	square metre(m <sup>2</sup> )
a)	<b>Selected layers</b> .....	square metre (m <sup>2</sup> )
b)	<b>Subbase</b> .....	square metre (m <sup>2</sup> )
c)	<b>Base (Including prime coat)</b> .....	square metre (m <sup>2</sup> )
d)	<b>Bituminous surfacing (Including tack coat)</b> .....	square metre (m <sup>2</sup> )
e)	<b>Kerb</b> .....	metre (m)

The unit of measurement of sub-items (a) to (d) shall be the square metre of the layer reinstated where instructed by the engineer.

The unit of measurement of sub-items (e) shall be the metre of kerb replaced due to trench excavation where instructed by the engineer.



Any reinstatement required beyond the agreed or instructed dimensions owing to damage caused by the contractor will not be measured for payment. ....

The appropriate sections of the specification shall also be applicable to the reinstatement of the trenches.

The tender rates shall include full compensation for procuring, furnishing, placing, compacting, and finishing all materials, providing all labour and constructional plant, cutting and preparing the edges of the existing surfacing and protecting and maintaining the completed reinstatement as specified.

## SECTION 3100: BORROW MATERIAL

### B3102 NEGOTIATIONS WITH OWNERS AND AUTHORITIES

*Insert the following additional sub clause*

(d) The contractor shall comply with the requirements of the Environmental Scoping Report and the Environmental Management Programme Report with regard to his activities at borrow pits and the rehabilitation thereof before completion of the contract. The contractor shall prepare a mining plan for the approval of the Department: Mineral and Energy with regard to any dolerite and mudstone rock quarry being opened under the contract.

### B3103 OBTAINING BORROW MATERIALS

#### (a) General

*Add the following paragraph*

The contractor shall note that natural materials which meet the requirements for the selected

and sub-base layers are scarce, even when the properties are improved via stabilization.

Therefore, careful selection of materials will be required in the borrow pits. The contractor shall refer to Section

3200 of the standard specifications with regard to his liabilities in respect of the contamination of good quality materials.

### B3104 OPENING AND WORKING BORROW PITS AND HAUL ROADS

#### a) Removing topsoil

*Add the following paragraph:*

The topsoil to be stockpiled shall be placed between the road and the physical borrow pit area so as to provide a temporary visual screen in front of the borrow activities. The topsoil shall not be stockpiled longer than 6 months, nor shall the stockpile be higher than 2.0m

#### g) Unproclaim private access roads

*Add the following:*

The contractor is responsible for proper maintenance of haul roads in cases where the material from the borrow pit areas and quarries has to be transported over secondary, tertiary, private or access

roads. At the completion of activities in the borrow pits the haul roads shall be restored to their original state and to the satisfaction of the Engineer.

Expropriation of borrow pits on private property by the Employer will include access roads to the borrow pits. However, the contractor is fully responsible for the negotiating details of the right of access to the borrow pits with the private owners as well as for the building, maintenance and later removal of all access roads. No additional payment will be made for this work and full remuneration will be deemed to be included in the tender rates for the various items where the material is to be used.

The construction and maintenance of the quarry haul road to the required standard for the effective transport of crushed stone products shall be the contractor's responsibility. No specific payment will be made for maintenance. All maintenance activities are deemed to be included in the tender rates for the relevant items requiring crushed stone products.

## B 3105 FINISHING OFF BORROW AREAS AND HAUL ROADS

### a) Borrow areas

*Add the following paragraphs:*

The rehabilitation and finishing off of borrow areas and quarries are not considered to be an item for inclusion in a snag list at the end of construction.

Failure to finish borrow areas, including the dolerite and mudstone rock quarry, to the satisfaction of the Engineer and satisfying all legal requirements, will result in the issue of the certificate of Practical Completion being delayed. Refer to clause 1210 of the standard specification as amended in these project specifications.

The Contractor shall take note of this provision in his contract programme.

## B3108 MEASUREMENT AND PAYMENT

*Item*

*Unit*

**B31.01 Excess overburden.....cubic metre (m<sup>3</sup>)**

The unit of measurement shall be the cubic metre of excess overburden measured in place before stripping. Such measurement shall be based on the depth of overburden as measured in the trial pits.

*Item*

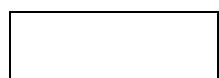
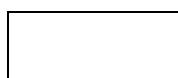
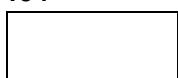
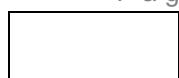
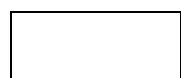
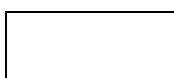
*Unit*

**B31.02 Excess overburden in borrow pits for obtaining crushed stone for pavement layers ...cubic metre (m<sup>3</sup>)**

The unit of measurement shall be the cubic metre of excess overburden measured in place before stripping. Such measurement shall be based on the depth of overburden as measured in the test pits.

*Item*

*Unit*



**B31.03 Finishing-off borrow areas in .....cubic metre (m<sup>3</sup>)**

- a) **Soft material** .....cubic metre (m<sup>3</sup>)
- b) **Intermediate material** .....cubic metre (m<sup>3</sup>)
- c) **Hard material** .....cubic metre (m<sup>3</sup>)

The unit of measurement shall be the cubic metre of excess overburden measured in place before stripping. Such measurement shall be based on the depth of overburden as measured in the test pits.

**B31.04/55.06 Providing temporary perimeter fences and gates at borrow pit areas as indicated by the Engineer .....kilometre (km)****a) Stock proof fence**

The unit of measurement shall be km length. The payment item shall include all removal of existing fencing, posts, etc. and constructing the completed new fence as per the standard specification. The rate shall also include a lockable gate per borrow area, shaping, levelling and maintenance for the duration of the contract period.

**B31.07 Rehabilitation of dolerite and mud stone rock quarry.....cubic metre (m<sup>3</sup>)**

The unit of measurement shall be the lump sum for the rehabilitation of the hard dolerite rock quarry and borrow pits approved by the Department: Mineral and Energy.

The tender rate shall include full compensation for all work associated with the rehabilitation of the quarry and borrow pits and obtaining approval from the relevant authorities. No payment will be made until the necessary approval has been obtained.

**SECTION 3300: MASS EARTHWORKS****B3301 SCOPE**

*Amend the first paragraph to read:*

“Mass earthworks shall also include drainage excavation where such excavation is classified as “cut” in terms of Clause 2102 of Section

**B3302 MATERIALS****(a) Roadbed and cut**

*Add the following:*

“The minimum CBR of the existing subgrade layer shall be +15 at 93% of modified AASHTO density. “The existing subgrade layer and all fill widening shall be compacted to a minimum of 93% of modified AASHTO density.”

**(b) Fill**

*Add the following:*

“The Contractor shall obtain selected subgrade material from a source of his own choice. The unit rate tendered shall include all procurement related costs, including haulage. The material quality shall comply with that of G7 natural gravel as specified in COLTO Specifications and shall be compacted to the specified of Mod AASHTO Density”.

**B3303 CLASSIFICATION OF CUT AND BORROW EXCAVATION**

**(a) Classes of excavation***Amend the first paragraph to read as follows:*

“The Contractor may use any method he chooses to excavate any class of material but the chosen method of excavation shall not determine the classification of the excavation. The Engineer will decide on the classification of the materials. In the first instance the classification will be based on inspection of the material to be excavated and on the criteria given below.”

All material encountered in any excavations for any purpose including restricted excavations will be classified as follows.”

1. Excavation in All Materials. This category of excavation includes; excavation in all sandy and disturbed material; excavation in Clay; excavation in undisturbed and weathered Shale (clay); Sandstone; Mudstone and excavation in ripable rock.
2. Excavation in hard rock will require blasting or rock splitting. Areas where rock splitting is required will be indicated on site by the Engineer.

Extra-over payment will be made for hard rock excavation and boulder excavation class A and B provided the surface levels of the hard rock have been recorded on drawings signed by the Engineer before it is excavated.

**B3305 TREATING THE ROADBED****(c) Preparation and compaction of roadbed***Amend the first paragraph to read as follows:*

“The roadbed shall be scarified to a depth of 200 mm, watered, shaped and compacted to 93 % of AASHTO density (100 % for sand), except where otherwise ordered by the Engineer.

Where the existing subgrade material does not conform to the G8 specifications (CBR>15) as per the TRH 20, the Contractor is to notify the Engineer and request approval for inclusion of a selected sub-grade layer. In this case the box floor shall be lowered by an additional 450mm, levelled and compacted with two passes of a vibratory roller”.

**B3306 CUT AND BORROW****(a) Dimensions of cuts***Delete the third paragraph Clause 3306(a), apart from the first**Add replace with the following:*

“Cut and borrow to fill will be measured under item 33.01. The contractor shall take note of the nature of the earthworks alongside the existing road. No extra over item will be paid in respect to the nature of the site or due to the dimensions of a particular cutting.

**(b) The use of cut material***Amend the first paragraph to read as follows:*

“All movement of cut to fill and cut and spoil material shall be regarded as freehaul. In addition, all movement of topsoil, overburden soil or any other material within the boundary of the site or to a spoil site selected by the Contractor shall be regarded as freehaul.

“No payment will be allowed for overhaul. The tendered rates for all earthworks are to include haulage cost of material whether imported from commercial sources or not”.

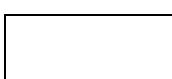
**(e) The temporary stockpiling of materials***Amend the first paragraph to read as follows:*

“The Contractor shall plan his activities so that materials excavated from cuttings and borrow areas can be directly transported and placed at the designated points.

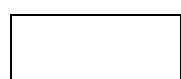
The temporary stockpiling of material will not be paid for separately unless instructed by the engineer, and full compensation will be deemed to have been included in the rates tendered for the various payment items for the work for which the stockpiled material is to be used.”

*Add the following subclause:***(f) Disposal of surplus material**

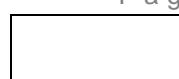
“The engineer will select spoil sites during the contract. For pricing purposes contractors should allow for the full amount of overhaul. Before commencing to use a spoil site, the topsoil shall be stripped



Contractor



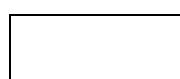
Witness 1



Witness 2



Employer



Witness 1



Witness 2

from the site and placed in temporary storage on the site for later use in topsoiling the completed spoil, as referred to in the Project Specification Section 1700, Clearing and Grubbing."

### B3311 QUALITY OF MATERIALS AND WORKMANSHIP

*Amend the first paragraph to read as follows:*

"No density shall be less than the specified minimum density for the relevant layer.

The cost of all routine testing done by the Engineer, and of which the results do not comply with the specified minimum requirement for the material, shall be borne by the Contractor and will be subtracted from the monthly payment certificates".

### B3312 MEASUREMENT AND PAYMENT

*Add the following new items:*

**Item      Unit**

<b>B33.01</b>	<b>Cut and borrow to fill, including free-haul up to 1,0km.....</b>	<b>cubic metre</b>
	(m <sup>3</sup> )	
(a)	<b>Material in compacted layer thickness of 200mm and less</b>	
(ii)	<b>Compacted to 93% of mod AASHTO .....</b>	<b>cubic metre (m<sup>3</sup>)</b>
(e)	<b>Pioneer layer (as specified in subclause 3307 (c)) .....</b>	<b>cubic metre (m<sup>3</sup>)</b>

The unit of measurement shall be cubic metres of material measured in the compacted fill.

The tendered rate shall also include full compensation for supply and installation of synthetic-fibre filter material where specified or indicated on the drawings.

*Add the following items:*

<b>Item</b>		<b>Unit</b>
<b>B33.03</b>	<b>Extra over for Item 33.01 for excavation of material in:</b>	
(a)	<b>Soft excavation .....</b>	<b>cubic metre (m<sup>3</sup>)</b>
(c)	<b>Hard excavation .....</b>	<b>cubic metre (m<sup>3</sup>)</b>
(d)	<b>Boulder excavation Class A .....</b>	<b>cubic metre (m<sup>3</sup>)</b>
(e)	<b>Boulder excavation Class B .....</b>	<b>cubic metre (m<sup>3</sup>)</b>

The unit of measurement shall be the cubic metre of material removed as specified.

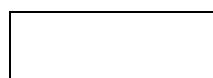
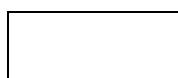
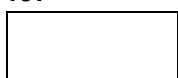
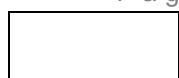
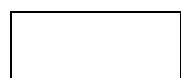
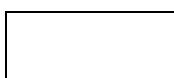
Measurement of items (a), (b) and (c) shall be in the original position in the cut or borrow pit and the quantity shall be computed by the method of average end areas from levelled cross-sections at intervals not exceeding 20m measured along the centre line of the road in the case of cuts and at intervals not exceeding 10m and parallel to one another in the case of borrow pits before and after the removal on the material.

Measurements of boulder excavations class B shall be by the volume of individual boulders being measured after removal or where this is considered to be impracticable n-by taking the in-situ volume of boulders excavation to be equivalent to 50% of the loose volume in the hauling vehicles.

The tendered rate shall be paid as extra over the rates applying to soft excavation in item 33.01 and shall include full compensation for additional costs to excavate and breakdown the various classes of material, including the cost of all the necessary additional effort, plant, tools, materials, labour and supervision.

<b>Item</b>		<b>Unit</b>
<b>B33.04</b>	<b>Cut to spoil, including free-haul up to 1,0km. Material obtained from:.....</b>	<b>Cubic metre (m<sup>3</sup>)</b>

The unit of measurement shall be cubic metres of material measured in its original position in cut and computed by the method of average end areas from levelled cross-section taken along the ground line



after clearing and grubbing and the removal of topsoil, if any, but prior to excavating the cut, with the final specified or authorised cross section of the cut super-imposed thereon at intervals not exceeding 20m along the centre line of the road.

The tendered rate for cut to spoil shall include full compensation for excavating from the road prism and roadbed in the various classes of excavation, for loading, transporting the material for a free-haul, off-loading and disposing of the material as specified, including shaping and levelling-off any piles of spoil material.

Measurement of boulder excavation class B shall be by the volume of individual boulders being measured after removal, or, where this is considered to be impracticable, by taking the in situ volume of boulder excavation to be equivalent to 50% of the loose volume in the hauling vehicles.

Where measurement by cross-section is considered by the engineer to be impracticable, cut to spoil may be measured in the hauling vehicles, by taking the in situ volume of the material in the case of soils and gravel to be the equivalent of 70% of the loose volume in the haul vehicle, and, in the case of boulder material, as equal to 50% of the loose volume in the haul vehicle.

The payment item will also apply to the removal of unsuitable roadbed material, provided that it is stable material, and that instruction in respect of its removal be given before the excavations reach the level of the roadbed material to be removed, all as described in subclause 3305(a).

**B33.10 Roadbed preparation and the compaction of material.....cubic metre (m<sup>3</sup>)**  
**(b) Compaction to 93% of modified AASHTO density .....cubic metre (m<sup>3</sup>)**

The unit of measurement shall be cubic metres of roadbed material prepared and compacted as specified in subclause 3305(c). The quantity shall be computed in accordance the authorised dimensions of the completed layers.

The tendered rate shall also include full compensation for shaping, scarifying, mixing of in situ and imported material if required, and preparing and compacting the material as specified.

**B33.12 In situ treatment of roadbed: .....cubic metre (m<sup>3</sup>)**

The unit of measurement shall be cubic metres of in situ material treated in situ as specified in subclause 3305(d), the quantity shall be calculated from the authorised dimensions of the in situ treatment.

The tendered rate shall also include full compensation for ripping or blasting, shaping, scarifying, sizing, knapping, rolling, mixing of in situ and imported material if required, and preparing and compacting the material as specified.

Payment shall distinguish between in situ treatment by ripping and in situ treatment by blasting. Surplus material shall be measured and paid for as in item 33.01 if placed in fill and item 33.04(a) if taken to spoil, and no payment shall apply under item 33.03.

**B33.13 Finishing-off cut and fills slopes, medians and interchange areas:**  
**(a) Cut slopes .....Square metre (m<sup>2</sup>)**  
**(b) Fill slopes .....Square metre (m<sup>2</sup>)**

The unit of measurement shall be the square metre of cut or fill slopes areas finished off as specified. The areas shall be measured from levelled cross-sections taken at 20m intervals measured along the centre line of the road and shall be the sloping area between the shoulder breakpoint and the toe of the fill in the case of fill slopes, and the sloping area between the top of cut slope and the toe in the case of cut slopes.

## SECTION 3400

## PAVEMENT LAYERS OF GRAVEL MATERIAL

### B3401 SCOPE



The section covers the construction of selected layers, subbase, base and shoulders with natural gravel and/or crushed or partially crushed material and also gravels wearing courses.

## B3402 MATERIALS

### (a) General

*Add the following to the second paragraph:*

“Materials to be used for the gravel wearing course shall be Type 1 as per Table 3402/4, with the following amendments:

- Maximum target size = 53 mm
- Oversize index = 10% maximum
- Maximum permitted oversize = 63 mm.”

## B3403 CONSTRUCTION

### (b) Placing and compacting

*Add the following new sub-subclause:*

“The gravel selected layer shall be 150mm thick unless shown other on the drawings.”

*Add the following new sub-subclause:*

“The subbase layer shall be 150mm thick unless shown other on the drawings.”

*Add the following new sub-subclause:*

“The base layer shall be 150mm thick unless shown other on the drawings.”

## B3406 QUALITY OF MATERIAL AND WORKMANSHIP

*Add the following new sub-subclause:*

“The Density measured at all test holes shall be a minimum of 95% Mod. AASHTO density for the section of layer works to be acceptable.)

(a) **Gravel wearing course Layer – minimum of 95% Mod AASHTO;**

## B3407 MEASUREMENT AND PAYMENT

*Add the following items:*

Item	Unit
<b>B34.01 Pavement layers constructed from gravel taken from borrow pit, including free haul up to 1.0km:</b>	
(h) <b>Gravel wearing course compacted to:</b> .....	Cubic metre (m <sup>3</sup> )

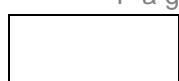
The unit of measurement shall be the cubic metre of compacted pavement layer and the quantity shall be calculated from the authorized dimensions of the compacted layer.

The tendered rate shall include full compensation for procuring, as if from softs excavation or pits, breaking down, placing and compacting. 5% by volume of oversize material, and the protection and maintenance of the layer and the conducting of control tests, all as specified.

*Add the following items:*

Item	Unit
<b>B34.02 Extra over for Item 34.01 for excavation of material in:</b>	
(a) <b>Intermediate excavation</b> .....	Cubic metre (m <sup>3</sup> )
(b) <b>Hard excavation</b> .....	Cubic metre (m <sup>3</sup> )

The unit of measurement shall be the cubic metre of compacted pavement layer and the quantity shall be calculated from the authorized dimensions of the compacted layer.



**SECTION 5100****PITCHING, STONEWORK AND PROTECTION AGAINST EROSION****B5101 SCOPE**

*Amend the first the first paragraph to read:*

“This Section covers the furnishing of materials and the construction as well as maintenance activities of a protective covering in stone pitching, cast in situ concrete pitching, bricks or prefabricated concrete blocks on exposed surfaces such as earth slopes, drains and stream beds, as well as heavier protective layers in the form of riprap and the construction of stone masonry for walls, as well as shown on the drawings or as ordered by the Engineer.

The Routine Road Maintenance Procedures Manual (RRMPM) of the Department of Roads and Public Works of the Eastern Cape describes the causes and type of defects, as well as providing a guide on how to conduct the works as indicated below.”

**B5108 MEASUREMENT AND PAYMENT:**

*Add the following new item:*

Item	Unit
<b>B51.08 Demolition of stone pitching and masonry walls</b>	
(a) Stone pitching .....	cubic metre (m <sup>3</sup> )
(b) Stone masonry walls .....	cubic metre (m <sup>3</sup> )

The unit of measurement shall be the cubic metre of stone pitching or masonry wall demolished.

The tendered rate shall include full compensation for all labour, plant and equipment required to demolish the existing structure and disposal of the demolition to an approved spoil site within a free-haul distance of 1km. For partial demolition, it shall also include for squaring out the exposed surface and preparing the existing surface for repair or to tie into new construction work.”

<b>SECTION 5200</b>	<b>GABIONS</b>
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<b>B5201</b>	<b>SCOPE</b>
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*Add the following sentence to the first paragraph:*

“This section will also cover all activities required to maintain and repair existing gabion structures. The Routine Road Maintenance Procedures Manual (RRMPM) of the Department of Roads and Public Works of the Eastern Cape describes the causes and type of defects, as well as providing a guide on how to conduct the works as indicated below.”

Generally gabions shall be flexible galvanized steel-wire-mesh cages packed with rock.

<b>B5205</b>	<b>MEASUREMENT AND PAYMENT:</b>
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<b>Item</b>		<b>Unit</b>
<b>B52.01</b>	<b>Foundation trench excavation and backfilling</b>	
(a)	In solid rock (material which required blasting).....	cubic metre (m <sup>3</sup> )
(b)	In all other classes of materialcubic	metre (m <sup>3</sup> )

The unit of measurement shall be the cubic metre of each class of excavation made in accordance with authorized dimensions.

The tendered rate shall include full compensation for excavating in each class of material, including unavoidable overbreak, the trimming of trenches and compacting the trench inverts, backfilling and compacting the backfill, and the disposing of surplus excavated material, including a free-haul of 1,0km.

<b>Item</b>		<b>Unit</b>
<b>B52.02</b>	<b>Surface preparation for bedding the gabions</b> .....	square metre (m <sup>2</sup> )

The unit of measurement for levelling and preparing surfaces for receiving the gabions shall be the square metre to the neat dimensions of revetments, aprons or wall foundations.

The tendered rate shall include full compensation for excavating, filling any cavities with rock, and levelling the ground surface so as to be ready for receiving the gabion cages for retaining walls, aprons and revetments.

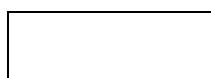
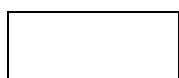
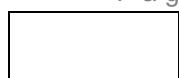
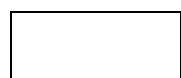
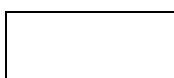
<b>Item</b>		<b>Unit</b>
<b>B52.03</b>	<b>Gabions</b>	
(b)	PVC-coated gabion boxes (2 x 1 x 0.5m and 1m spacing) .....	cubic metre (m <sup>3</sup> )
(d)	PVC-coated gabion mattresses (6 x 2 x 0.5m and 1m spacing) .....	cubic metre (m <sup>3</sup> )

The unit of measurement shall be the cubic metre of rock-filled cages and the quantity shall be calculated from the dimensions of the gabions indicated on the drawings or prescribed by the engineer, irrespective of any deformation or bulging of the completed gabions.

The tendered rate shall include full compensation for supplying all the materials, including rock fill, wire-mesh cages, galvanizing, PVC-coating, tying and connecting wires, loading, transporting and off-loading, the assembling and filling of the cages, and any other work necessary for constructing the gabions.

<b>Item</b>		<b>Unit</b>
<b>B52.04</b>	<b>Filter fabric</b>	

U14 bidim or similar.....square metre (m<sup>2</sup>)



The unit of measurement shall be the square metre of area covered with filter fabric placed in position.

The tendered rate shall include full compensation for supplying the filter fabric, cutting, and waste, placing, joining, overlapping, and securing the material in position.

*Add the following new item:*

Item	Unit
<b>B52.05 Dismantle and remove gabion structures .....</b>	(m <sup>3</sup> )

The unit of measurement shall be the cubic metre of gabion structure dismantled / demolished and removed to spoil.

The tendered rate shall include full compensation for all labour, plant and equipment, as well as all incidentals required to demolish the existing structure and disposal of the demolition to an approved spoil site within a free-haul distance of 1km.”

## SECTION 5600: ROAD SIGNS

### B5601 SCOPE

*Replace the contents of this clause with the following:*

“This Section covers the erection and maintenance of permanent road signs alongside and over the carriageway, ramps and cross roads at intersections and interchanges and at the locations indicated or directed by the Engineer. It also covers the cleaning of existing permanent road signs which faces appear dirty, faded or non-reflective as well as on the removal of illegal signs.

The Routine Road Maintenance Procedures Manual (RRMPM) of the Department of Roads and Public Works of the Eastern Cape describes the causes and type of defects, as well as providing a guide on how to conduct the works as indicated below.”

### B5603 MANUFACTURING OF ROAD SIGN BOARDS AND SUPPORTS

#### (a) Road sign boards

*Add the following:*

“The Contractor shall ensure that the signs and supports supplied by the manufacturers are correct in all respects.”

#### (f) Road sign supports

*Add the following:*

“All the ground-mounted signs shall be supported on creosote timber pole supports.”

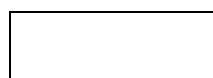
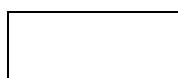
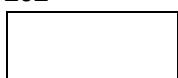
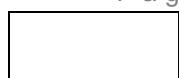
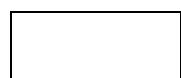
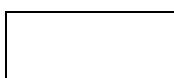
*Add the following new sub clauses:*

#### (h) Chromadek sections

“Chromadek sections shall be assembled in accordance with the details of the standard plans.

Where joints are approved by the engineer, they shall be constructed in accordance with the details shown on the standard plans and shall be covered on the rear face after assembly with a 20mm wide PVC corrosion protection tape. The PVC tape shall be covered by a 60mm wide self adhesive aluminium backed strip such as “Bostik Dit-Sit” or approved equivalent, all as indicated on the standard plans.

Retro-reflective material shall be applied to the section as specified for Aluminium Sections in Clause 5603(d) of the Standard Specifications, with the following additional requirement:



Where the letters or legends cross the horizontal joints of the sign panels the lettering or legend shall be cut along the joint and trimmed just short of the 3mm radius bend on the section.

**(i) Fastening details**

All fastening details to join the sign sections, to edge the assembled sign panel and to fasten the completed panel on to the timber supports shall be constructed in accordance with the details shown on the standard plans."

**(j) Date of erection and sign identity number**

The manufacturer's name, month and year of erection of the sign shall be placed in the bottom left-hand corner when facing the back of the sign. An eleven (11) digit identity number supplied by the engineer shall also be placed on the back of the sign above the date of erection. All lettering shall be 50mm high and shall be manufactured from 7 year cast enamel scotchcal or equivalent. All lettering will be located such that it is visible from the shoulder of the road. No reflective paint or reflective material will be permitted on the back of sign faces.

Single signs such as R and W series signs shall only have the manufacturer's name, date and month placed on the back.

**B5604 ROAD SIGN FACES AND PAINTING**

*Add the following new sub clauses*

**(e) Application of retro-reflective material**

All sign faces shall be faced with retro-reflective material. Painted front sign faces shall not be used. Colours, symbols, legends and borders shall comply with the regulations of the applicable Road Traffic Act, the South African Road Traffic Signs Manual, SABS 1519-1990, and the details shown on the Plans.

Where applied to Chromadek Sections retro-reflective material shall be applied as specified for aluminium sections in Clause 5603(d) of the Standard Specification, and of Clause B5603 (h) of this Project Specification.

**(f) Silkscreening**

Silkscreening or inking over retro-reflective materials shall not be acceptable.

**B5605 STORAGE AND HANDLING**

*Add the following:*

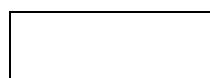
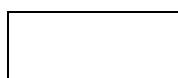
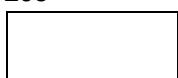
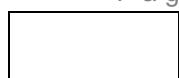
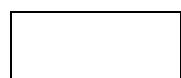
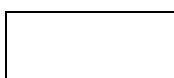
"The following shall not be allowed on the sign face:

- (a) Drilling of holes
- (b) Application of any form of adhesive
- (c) Cleaning with any chemicals that are not specifically approved by the manufacturer of the retro-reflective material, and
- (d) Covering the sign face with an impermeable material that does not allow free circulation of air.

**B5606 ERECTING ROAD SIGNS**

**(a) Position**

*Add the following:*



"All signs are to be placed, where practically possible, at the "preferred" location as indicated in the table on drawing ECS/56/1/C1. Variations will only be allowed if the topography does not allow the sign to be placed in the preferred position."

**(d) Field Welding**

*Replace the contents of this clause with the following:*

"No welding shall be allowed during the erection of any road signs."

**(e) Time of Erection**

*Replace the contents of this clause with the following:*

"Road signs shall be erected during and without disrupting the normal free flow of traffic."

*Add the following new sub clause:*

**(h) Fixing of signs to poles**

All sign faces will be affixed to the pole by means of clamps as indicated on drawing ECS/56/1/C7. An additional mild steel clamp ("ready-bar") will also be installed, together with one galvanised steel bolt fixed through the pole, as indicated on drawing CS/G/6/5.

W401 and W402 signs will only be affixed by means of two galvanised steel bolts through the face of the sign and pole.

**B5609 MEASUREMENT AND PAYMENT**

Item	Unit
<b>B56.01 Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class 1 retro-reflective material, where the sign board is constructed from:</b>	

**(c) Pre-painted galvanised steel plate (1.2mm chromadek or approved equivalent)**

*Replace subitems (i) to (iii) with the following:*

"(i) Sign type and size to be specified separately ..... number (No)"

*Replace the first paragraph after item (e) ii with the following:*

"The unit of payment will be the number of completed sign boards."

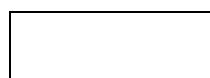
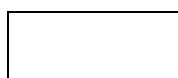
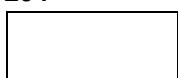
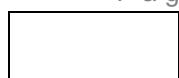
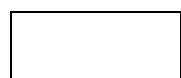
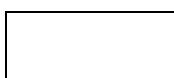
Item	Unit
<b>B56.03 Road sign supports</b>	
<b>(b) Timber (treated with tanalith)</b> .....	metre (m)

The unit of measurement for timber supporting structures shall be the metre of each diameter post used. Bolts and other accessories shall not be measured. Only the actual length of completed posts shall be measured. Cut-off sections shall not be measured.

The tendered rates for subitems (a) and (b) shall include full compensation for manufacturing and erecting the road, sign supports, including all bolts, screws, rivets, welding and accessories, together with the painting and galvanizing required, treatment of breakaway holes in timber supports.

Item	Unit
<b>B56.05 Excavation and backfilling for road sign supports (not applicable to kilometre posts)</b> .....	cubic metre (m <sup>3</sup> )

The unit of measurement shall be the cubic metre of excavation measured in place according to the neat dimensions of footings or excavations as shown on the drawings or directed by the engineer. In the case of timber posts not in concrete, the plan area of the excavated hole shall be taken as 0,15m<sup>2</sup>, irrespective of the actual size of the excavated hole



The tendered rate shall include full compensation for excavating, backfilling and compacting the backfilling material, for the disposal of all surplus excavated material, and for providing the backfill material.

**SECTION 8100: TESTING MATERIAL AND WORKMANSHIP**
**B8101 SCOPE**

During the progress of the work tests shall be conducted on materials and workmanship to ensure compliance with the requirements of the specifications.

Certain sampling test and testing procedures not covered in other sections of the sections of the specifications by reference to the standard mentioned in clause 8102 are given in this section.

**B8117 MEASUREMENT AND PAYMENT**

Item	Unit
“B81.02 Other special tests requested by the engineer .....	provisional sum

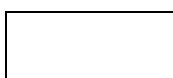
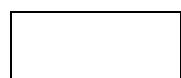
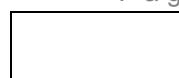
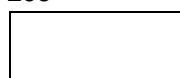
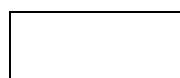
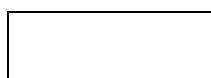
The provisional sum provided to cover the cost of special tests as requested by the engineer in terms of clause 8115 shall be expected in accordance with the provisions of the general conditions of contract. Payments will not be made for any special test should the test indicate that the specifications have not been compiled with.

**SECTION 9300: ENVIRONMENTAL MANAGEMENT PLAN IMPLEMENTATION**

This section of works is measured and payable under the preliminary and general section of the Bill of Quantities

**CONTENTS**

- B9301 SCOPE
- B9302 INTERPRETATIONS
- B9303 DEFINITIONS AND ABBREVIATIONS
- B9303 OBJECTIVES OF THE ENVIRONMENTAL MANAGEMENT PROCEDURES
- B9305 ROLES AND RESPONSIBILITIES
- B9306 METHOD STATEMENTS
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**B9301 SCOPE**







This Specification covers the requirements for the effective implementation of an Environmental Management Plan for controlling the impact on the environment during the road construction activities. The purpose of the Environmental Management Plan (EMP) is to help control those construction activities that can have potentially adverse environmental implications on the site and surrounding areas. In short, the EMP describes good environmental practice principles which must be applied for the duration of the construction activities.

The environmental specifications should be read in conjunction with the Environmental Assessment and Environmental Management Plan / Programme for materials sources as well as the conditions of authorisation issued by the Department of Economic Development and Environmental Affairs (DEDEA) and the Department of Minerals and Resources (DMR) respectively. It should be noted that the conditions of the DEDEA and DMR Authorisations are legally binding.

The contractor is furthermore required to comply with other relevant legislation which may apply to the proposed activities. This may include, but not be limited to:

- (i) A water utilization permit for water abstraction, issued in terms of the National Water Act (Act No 36 of 1998).
- (ii) Permit required for alterations to a river bank or permanent deviation of a stream flow, issued in terms of the National Water Act (Act No 36 of 1998).

Permit for atmospheric emissions produced by an asphalt plant, issued in terms of the Atmospheric Pollution Prevention Act (Act No 45 of 1965).

- (iii) Permit for the removal or destruction of protected plants, issued in terms of the National Forestry Act (Act No 84 of 1998).

## B9302 INTERPRETATIONS

### B9302.1 Supporting Documents

Where this specification is applicable, the following documents shall inter alia be read in conjunction with this document.

- (i) Statutory requirements of the National Environmental Management Act (Act No 107 of 1998) and regulations promulgated in terms of Section 24 of NEMA;
- (ii) Statutory requirements of the Minerals and Petroleum Resource Development Act (Act No 28 of 2002)
- (iii) Statutory requirements of the National Water Act (Act No 36 of 1998);
- (iv) Statutory requirements of the National Forests Act (Act No 84 of 1998); and
- (v) Statutory requirements of the National Heritage Resources Act (Act No 25 of 1999).

**Note 1:** In the Eastern Cape Province, the ECA and NEMA fall under the authority of the Department of Economic Development and Environment Affairs (DEDEA), whilst the MPRDA falls under the authority of the Department of Minerals and Energy (DME).

**Note 2:** Environmental Management Plans (EMP's) relating to road maintenance programmes need to be authorised by the DME in accordance with the requirements of the MPRDA.

### B9302.2 Applications

The provision of this specification shall apply in respect of all Contractors, Sub-contractors and to any of their site personnel, workforce or suppliers, who are engaged in the execution of the works.

## B9303 INTERPRETATIONS

DEDEA

Department of Economic Development and Environmental Affairs.

<b>DWAF</b>	Department of Water Affairs and Forestry
<b>EEA</b>	External Environmental Auditor
<b>EIA</b>	Environmental Impact Assessment
<b>ENVIRONMENT</b>	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 of combination of the aforementioned 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 wellbeing.
<b>ENVIRONMENTAL IMPACT</b>	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.
<b>INVASIVE ALIEN VEGETATION</b>	An 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.
<b>MSDS</b>	Material Safety Data Sheets.
<b>NO-GO AREAS</b>	Generally those areas outside the designated working areas, including but not limited to: existing services and infrastructure, occupied property; grave sites; cultivated lands, wetland areas, 'Special or Sensitive Environments' as defined in the EMP.
<b>RE</b>	Resident Engineer.
<b>TOPSOIL</b>	Natural soil covering, including all the vegetation and organic matter, with variable depth.
<b>WORKING AREAS</b>	Working areas are those areas required by the Contractor to construct the works, as approved by the Resident Engineer.

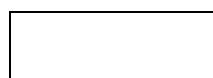
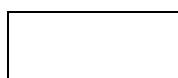
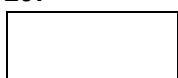
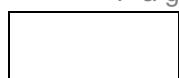
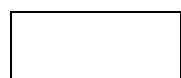
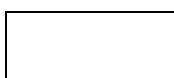
#### **B9304 OBJECTIVES OF THE ENVIRONMENTAL MANAGEMENT PLAN**

The Environmental Management Plan which is in accordance with the Environmental Policy of the Employer is intended primarily as a management tool, for the guidance of the Consulting Engineers, the Contractor and his subcontractors.

The objective of the Environmental Management Plan (EMP) is to control the impacts firstly of materials, plant and facilities and secondly construction activities. The effective implementation of an EMP will ensure that the required works are conducted in an environmentally sound manner and that the negative impacts of the works are minimised or prevented. This management plan contains the necessary environmental requirements to the Contractor and his staffs, including all subcontractors and on-site workers are required to adhere to.

The Environmental Management Plan outlines structures and procedures to be implemented by the Contractor and his subcontractors to minimise and manage potential environmental impacts which the Contractor's construction activities might have on the receiving environment.

An External Environmental Auditor (EEA) will be appointed by the client to ensure that the EMP is being effectively implemented. The EEA shall undertake monthly site inspections, the results of which will be reported to the Client, Consulting Engineer, and Contractor and to the relevant government departments.



**B9305 ROLES AND RESPONSIBILITIES****B9305.1 Responsibilities of the Resident Engineer**

Specific to environmental management, the role of the Resident Engineer will be to ensure enforcement of the Environmental Management Plan and Procedures and supplementary recommendations made by the EEA; review and approve the Method Statements submitted by the Contractor; and liaise with the Contractor, the EEA and DEDEA on environmental matters as necessary.

*Responsibilities* of the Resident Engineer will include, but not be limited to:

- Communicating the advice of the EEA and/or/contents of the EEA's reports;
- Issuing site instructions where applicable;
- Communicating to the EEA any new/amended construction activities;
- Informing the EEA of any infringements/accidents or incidents that have occurred on/off site;
- Implementing any Temporary Work Stoppages where serious environmental infringements and non-compliances have occurred;
- Issuing penalties as and when necessary; and,
- Maintaining a record of complaints and communicating these to the Contractor and EEA.

Should the RE be of the opinion that the environmental management measures are not being adhered to, and that the appropriate corrective action is not being implemented, the RE, advised by the EEA, will be at liberty to instruct the Contractor to cease the related operations until the contractor complies with the relevant requirements. The contractor will not be entitled to any extension of time for such stoppages.

**B9305.2 Responsibilities of the External Environmental Auditor (EEA)**

The role of the EEA will be to monitor, review and verify the implementation of the EMP and liaise with the Resident Engineer and/or Client, and DEDEA to confirm the level of compliance achieved and make appropriate recommendations on improvements/actions required.

The *responsibilities* of the EEA will include, at a minimum:

- Advising the Resident Engineer on the interpretation and enforcement of the Environmental Specifications;
- Assisting with the review of Method Statements;
- Demarcating particularly sensitive areas;
- Monitoring any basic physical changes to the environment as a consequence of the construction works – e.g. evidence of erosion, dust generation and littering;
- Undertaking regular site inspections and submitting reports on the level of compliance to the EMP demonstrated by the Contractor;

- Undertaking any damage assessments with the Resident Engineer where incidents, accidents and/or serious infringements have occurred on/off site, and advising on remedial actions required; and
- Updating the EMP as and when appropriate and communicating these changes to the Resident Engineer and Contractor.

### B9305.3 Responsibilities of the Contractor

The Contractor will be contractually required to undertake his activities in an environmentally responsible manner. The role of the Contractor will include the following, at a minimum:

- To implement the EMP (and any subsequent revisions) for the duration of the construction activities;
- To provide reasonable resources for the effective control and management of environmental risks associated with the construction activities, as per the EMP;
- To assign tasks to personnel as necessary and ensure appropriate accountability and responsibility is assigned to enable the carrying out of these duties;
- To maintain incident, training and other relevant administrative records; and
- To ensure all personnel, sub-contractors and other workers appointed by the Contractor are aware of the environmental responsibilities on site.

These roles will, at a minimum, translate into the following environmental responsibilities:

- Be familiar with the contents of the EMP and to comply with the EMP;
- Submit the necessary Method Statements and plans to the Resident Engineer for approval;
- Review the ECO Reports and take cognisance of the information/recommendations made;
- Notify the Resident Engineer immediately in the event of any accidental infringements of the Environmental Specifications and ensure appropriate remedial action is taken;
- Notify the Resident Engineer in advance of any amendments/changes to the proposed work activities to enable environmental impacts to be confirmed and mitigation measures identified; and
- Maintain records – e.g. photographic records, complaints records, training records and incident records.

### B9305.4 Responsibilities of the Environmental Representative

The Contractor shall on commencement of the Project appoint an Environmental Representative who, in addition to his normal duties, shall have direct responsibility for the implementation and monitoring of the Environmental Management Plan.

The Environmental Representative shall liaise with the RE, the EEA and the Contractor, in order to ensure effective implementation of the Environmental Management Plan at site level. The Environmental Representative will be responsible for the practical implementation and monitoring of the Environmental Management Plan and he shall report directly to the RE in this regard. The Environmental Representative shall periodically inspect and monitor operations on and off site and shall take the necessary action where required to ensure compliance with the requirements of the Environmental Management Plan. The Environmental Representative shall attend all regular site Works meetings for reporting, discussing and reviewing the performance of the Environmental Management Plan (which shall be a standard item on the agenda).



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

**B9306 METHOD STATEMENTS**

The Contractor shall be required to submit Method Statements to the EEA outlining proposed construction activities, phasing and procedures and methods to comply with the targets stipulated in the Environmental Management Plan. Method Statements shall, where applicable, include Site Establishment Drawings with sufficient detail to assess the potential impact of the site facilities or to assess the degree of safeguarding provided against pollution.

Method Statements shall indicate how the procedures will be applied in order to meet the relevant targets and are central to the proper implementation of the environmental Management Plan. It is anticipated that in addition to assessing the systems and performance of the Environmental Management Plan, the external audit will scrutinise the formulation of, and adherence to Method Statements in some detail.

Method Statements must be submitted at least 10 days prior to the proposed commencement of related activities and must be approved by the EEA, in consultation with the RE. The Environmental Representative shall keep copies of these Method Statements and letters of approval (including conditions attached) in a Method Statement file.

Any deviations from the approved Method Statements must be submitted to the EEA for approval and any amendments submitted to the RE.

The following Method Statements shall be submitted by the Contractor 714 days prior to the commencement:

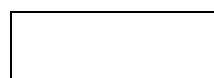
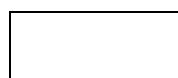
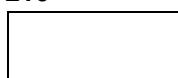
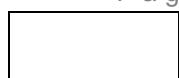
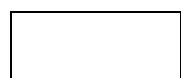
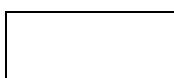
- Layout and preparation of the construction camp;
- Location, layout and preparation of cement/concrete batching facilities including the methods employed for the mixing of concrete including the management of runoff water from such areas;
- Contaminated water management plan, including the containment of runoff and contaminated water;
- Dust control;
- Source of water for compaction and dust suppression;
- Method for the control of erosion during bulk earthwork operations, including erosion of spoil material;
- Methods for abstracting water from rivers or other water sources including measures to prevent pollution and sedimentation;
- Emergency spillage procedures, including hydrocarbons, and compounds to be used;
- Emergency procedures for fire;
- Method of diverting stormwater during construction; and
- Solid waste control and removal of waste from Site;

**B9307 MATERIALS, PLANT AND FACILITIES****B9307.1 Materials handling, use and storage**

The Contractor shall ensure that any delivery drivers are informed of all procedures and restrictions (including "no go" areas) required to comply with the Specifications of the EMP.

The Contractor shall ensure that these delivery drivers are supervised during off loading by someone with an adequate understanding of the requirements of the EMP.

Materials shall be appropriately secured to ensure safe passage between destinations. Loads including, but not limited to sand, stone chip, fine vegetation, refuse, paper and cement, shall have appropriate cover to prevent them spilling from the vehicle during transit. The Contractor shall be responsible for any clean-up resulting from the failure by his employees or suppliers to properly secure transported materials.



All lay down areas for manufactured/imported material outside of the construction camp shall be subject to the RE's approval, which shall not unreasonably be withheld.

#### **B9307.2 Hazardous substances**

Hazardous chemical substances (as defined in the Regulations for Hazardous chemical Substances) used during construction shall be stored in secondary containers.

The relevant Material Safety Data Sheets (MSDS) shall be available on Site. Procedures detailed in the MSDS's shall be followed in the event of an emergency situation.

Potentially hazardous substances shall be stored, handled and disposed of in a suitable manner.

#### **B9307.3 Fuel (petrol and diesel) and oil**

The Contractor shall ensure that all fuels and chemicals are handled and stored in a manner so to minimise the risk of spills, leaks or structural failures.

Fuel may be stored on Site and the fuel storage area shall be located at the workshop or a fuel storage depot located within the construction camp.

The Contractor shall ensure that all liquid fuels (petrol and diesel) are stored in tanks with lids, which are kept firmly shut or in bowsers.

The tanks / bowsers shall be situated on a smooth impermeable surface (plastic or concrete) base with an earth bund (plastic must have sand on top to prevent damage and perishing). The impermeable lining shall extend to the crest of the bund and the volume inside the bund shall be 110% of the total capacity of all the storage tanks / bowsers.

The bunded area shall be covered.

The Contractor shall prevent unauthorised access into the fuel storage area.

The Contractor shall have on Site all the necessary materials and equipment to deal with spills of any of the substances stored on Site.

The Contractor shall set up a procedure to deal with a spillage or pollution event; this should include immediate communication with the RE and EEA. A number of the Contractor's staff shall be appropriately trained to deal with any spills or pollution threat.

No smoking shall be allowed within the vicinity of the fuel storage area.

The Contractor shall ensure that there is adequate fire-fighting equipment at the fuel stores.

Gas and fuels shall not be stored in the same storage area.

Where reasonably practical, plant shall be refuelled at the depot or at the workshop as applicable. If it is not reasonably practical then the surface under the refuelling area shall be protected against pollution to the reasonable satisfaction of the RE prior to any refuelling activities.

The Contractor shall ensure that there is always a supply of absorbent material readily available to absorb/breakdown and where possible be designed to encapsulate minor hydrocarbon spillage. The quantity of such materials shall be able to handle a minimum of 200 litre of hydrocarbon liquid spill. This material must be approved by the RE prior to any refuelling or maintenance activities.

Drip trays shall be inspected and emptied daily, and serviced when necessary. Drip trays shall be closely monitored during rain events to ensure that they do not overflow.

The appropriate signage must be erected at the diesel bowser and workshops.

#### **B9307.4 Ablution facilities**



A sufficient number of chemical toilets shall be provided by the Contractor in the construction camp area and at appropriate locations agreed by the RE. The ratio of toilets to site staff shall not exceed 1:20, and the closest toilet shall never be further than 100m away from the area where work is currently under way.

Toilets shall not be located in river courses or flood plains.

Washing, whether of the person or of personal effects and acts of excretion and urination are strictly prohibited other than at the facilities provided.

All temporary/portable toilets shall be secured to the ground to the satisfaction of the RE to prevent them toppling due to wind or any other cause.

All toilets are to be maintained in a clean, sanitary condition. The Contractor shall be responsible for cleaning, maintenance, servicing and emptying the toilets on a regular basis. The Contractor shall supply adequate toilet paper at all toilets.

The Contractor shall ensure that no spillage occurs when the toilets are cleaned or emptied and that the contents are properly stored and removed from Site.

Discharge of waste from toilets into the environment and burial of waste is strictly prohibited.

Septic tanks may be used only once the soil conditions have been checked and found to be suitable.

The contractor may make use of a waste water treatment plant (or sewage package plant) provided such a facility has been authorised and/or registered by the relevant authorities (DEDEA and DWAF) according to the NEMA EIA Regulations (Government Notice No R. 385) and the National Water Act (Act No 36 of 1998).

#### **B9307.5 Living Accommodation**

Living accommodation for workers on Site should comply with minimum standards.

All temporary structures shall be removed and the area rehabilitated on completion of the works.

The Contractor shall designate eating areas for his employees. The Contractor shall provide bins with lids in these areas.

The source of energy / fuel for use by the workers residing in the area must be clearly specified. There must be no collection of wood outside the designated area.

#### **B9307.6 Solid waste management**

Not on-site burying or dumping of any waste materials, vegetation, litter or refuse shall occur.

The Contractor shall provide sufficient bins with lids on Site to store the solid waste produced on a daily basis. Bins shall not be allowed to become overfull and shall be emptied a minimum of once daily.

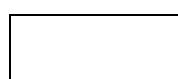
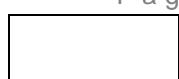
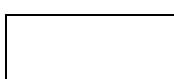
The waste may be temporarily stored on Site in a central waste area that is weatherproof and scavenger-proof, and which the RE has approved.

No burning of refuse is permitted.

All solid waste shall be disposed of offsite at least once weekly at an approved landfill site. The Contractor shall supply the RE with a certificate of disposal.

#### **B9307.7 Contaminated water**

The Contractor shall set up a contaminated water management system, which shall include collection facilities to be used to prevent pollution, as well as suitable methods of disposal of contaminated water.



The Contractor shall notify the RE immediately of any pollution incidents on Site.

The Contractor shall prevent discharge of any pollutants, such as cements, concrete, lime, chemicals and fuels into any watercourses or stormwater channels.

Water that has been contaminated with suspended solids, like soils and silt may be released into natural watercourses or stormwater channels. However, all suspended solids shall be removed from water before it is discharged by settling out these solids in settling ponds.

#### **B9307.8 Site camp**

All site establishment components (as well as equipment) shall be positioned to limit visual intrusion on neighbours and the size of area disturbed.

The Contractor shall provide the RE with a plan of the site camp showing the layout / positioning of all infrastructure including wash bays, fuel storage areas, materials storage areas, sewage infrastructure and buildings. The Contractor shall maintain a map of the site layout that indicates where the wash bays, fuel storage areas, topsoil sites etc are located. The RE and EEA must approve this.

Where site camps are to be established the feasibility of removing topsoil from the site, before site establishment, shall be investigated. Removed topsoil should then be stockpiled for use in rehabilitation of the site camp

The site camp shall not be located in an environmentally sensitive area. The site shall be located >100m from a watercourse / wetland.

All water requiring discharge, including wastewater from kitchen and ablution facilities, should be led to soak pits or discharged in a manner approved by the RE. No wastewater shall be discharged into rivers or streams.

Site camps and surrounds shall be maintained in a clean, tidy and orderly condition at all times.

The Contractor shall restore the site camp to its former condition upon completion of the works. This will include removal of all rubble and foundations, loosening of compacted soils and re-establishing groundcover. Where a homestead has been used as a site camp, the Contractor may be required to renovate the buildings once the works are complete.

#### **B9307.9 Lights**

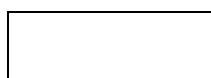
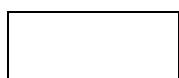
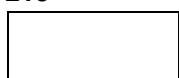
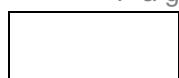
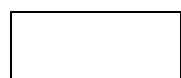
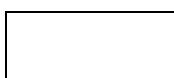
The Contractor shall ensure that any lighting installed on the Site for his activities does not interfere with road traffic or cause a reasonably avoidable disturbance to the surrounding community or other users of the area. Lighting installed shall be down lighting.

#### **B9307.10 Workshop, equipment maintenance and storage**

Where practical, all maintenance of equipment and vehicles on Site shall be performed in the workshop. If it is necessary to do maintenance outside of the workshop area, the Contractor shall obtain the approval of the RE prior to commencing activities.

The Contractor shall ensure that in his workshop and other plant maintenance facilities, including those areas where, after obtaining the RE's approval, the Contractor carries out emergency plant maintenance, there is no contamination of the soil or vegetation.

The workshop shall have a smooth impermeable concrete floor. The floor shall be bunded and sloped towards an oil trap or sump to contain any spillages of substances (e.g. oil).



When servicing equipment, drip trays shall be used to collect the waste oil and other lubricants.

Drip trays shall also be provided in construction areas for stationary plant (such as compressors) and for "parked" plant (such as scrapers, loaders, vehicles).

All vehicles and equipment shall be kept in good working order and serviced regularly. Leaking equipment shall be repaired immediately or removed from the Site.

The washing of equipment shall be restricted to urgent or preventative maintenance requirements only. All washing shall be undertaken in a wash bay area which must be equipped with a suitable impermeable floor and sump/oil trap. The use of detergents for washing shall be restricted to low phosphate and nitrate containing, low sudsing-type detergents.

#### **B9307.11 Drinking and construction water**

Water for drinking and construction purposes should be obtained from local reticulation works, or an approved source. Unless approved by the local authority and by DWAF, water should not be extracted from nearby dams and rivers, and construction activities should not be conducted in or directly adjacent to rivers and dams.

Water is a scarce resource throughout South Africa and certain parts of the Eastern Cape Province are prone to water shortages during periods of drought. Water, whether drinking or for operational purposes must be used responsibly.

### **B9308 CONSTRUCTION ACTIVITIES**

#### **B9308.1 Working Areas**

The road construction and associated activities may be conducted only in designated working areas. Limitation of these activities to specific working areas minimises the impact on the surrounding environment and facilitates control of the works. Sites should be divided into working areas and "no-go" areas:

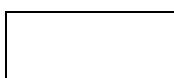
- Working areas are those areas required by the Contractor to undertake the works and as approved by the RE. These areas include the area of works, borrow areas and haul roads between the working sites and borrow areas. If necessary, the working areas may be demarcated during the period. The Contractor and his staff are not permitted to move around outside the designated working areas. The Contractor shall ensure that, insofar as he has the authority, no person, machinery, equipment or material enters the "no go" areas at any time.
- "No-go" areas are those areas outside of working areas. The Contractor shall erect and maintain permanent and/or temporary fences of the type and in the locations directed by the RE. Such fences shall, if so specified, be erected before undertaking designated activities.

Within the overall working area, the RE shall designate specific areas for the following:

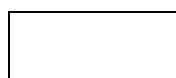
- Site Camp.
- Stockpiling and storage of construction materials.
- Stockpiling of topsoil for rehabilitation purposes.
- Spoiling of cleared vegetation (alien / invasive species).
- Sites for spoil materials.

#### **B9308.2 Protection of Flora and Fauna**

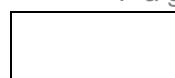
Natural features, indigenous flora and fauna in the vicinity of the project works should be protected and damage or disturbance prevented or minimised; specifically:



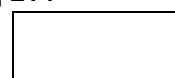
Contractor



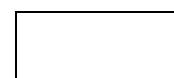
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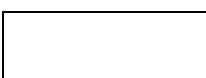
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Employer



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- No plant species may be removed unless agreed by the EEA or unless they are listed as alien invasive species.
- The minimum amount of vegetation must be removed. Excessive clearing of a site must be avoided. Disturbance outside of the immediate construction area must be avoided.
- No construction staff may have access to indigenous vegetation outside of the working corridor.
- The use of indigenous plants as firewood is prohibited.
- Where protected or Red Data Species are encountered and require removal, the EEA should be consulted and the plant(s) then replanted in a nearby 'safe' area of similar habitat. Permission should be obtained from DEDEA, Eastern Cape.
- All fauna (including domestic livestock) within and surrounding the site shall be protected; they shall not be caught, poisoned, trapped, snared or killed.
- No domestic animals shall be brought onto the site.

#### **B9308.3 Sites of Archaeological and or Cultural Interest**

The Contractor shall take responsible precautions to prevent any person from removing or damaging any fossils, coins, articles of value or antiquity and structures and other remains of archaeological interest discovered on the Site, immediately upon discovery thereof and before removal.

All archaeological sites identified in the environmental scoping must be demarcated with danger tape and placed out of bounds. Should disturbance of these sites be unavoidable, then an application must be made to the South African Heritage Resource Agency (SAHRA) via a qualified archaeologist.

Should an archaeological or cultural site be located during the upgrading of the route or any associated infrastructure, it should immediately be reported to the National Monuments Council. Failure to report a site of archaeological and/or cultural significance is a contravention of the National Heritage Act (Act No 25 of 1999).

All construction site staff must be briefed to immediately report any potential sites which are encountered during the construction of the road. In the event of finding what appears to be an archaeological site or a cultural and/or historic site or object, work should be terminated until a qualified archaeologist or historian can examine the item or find.

The contractors must check the area carefully for any graves. The relocation of graves must be undertaken in consultation with the affected families and through the Project Steering Committee. The correct procedures for the exhumation and reburial of the remains must be strictly adhered to.

#### **B9308.4 Protection of Natural Features**

The Contractor shall not deface, paint, damage or mark any natural features (e.g. rock formations) situated in or around the Site for survey or other purposes unless agreed beforehand with the RE.

Any features affected by the Contractor in contravention of this clause shall be restored/rehabilitated to the satisfaction of the RE.

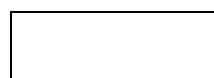
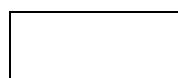
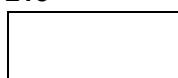
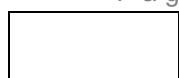
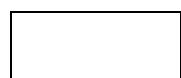
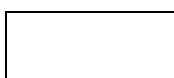
The Contractor shall not permit his employees to make use of any natural water sources (e.g. springs, streams, and open water bodies) for the purposes of swimming, personal washing and the washing of machinery or clothes.

#### **B9308.5 Aesthetics**

The Contractor shall take reasonable measures to ensure that construction activities do not have an unreasonable impact on the aesthetics of the area.

#### **B9308.6 Conservation and Stockpiling Of Topsoil**

Topsoil shall be removed from the following areas no longer than 10 days before construction begins:



All areas to be excavated;

- Areas to be occupied by roads, including the temporary haulage road;
- Areas for the storage of fuels;
- Areas to be used for batching / mixing of concrete;
- Areas for stockpiling of construction materials;
- Areas for stockpiling of crushed rock; and
- Areas for spoiling material.

Topsoil shall be excavated to a minimum depth of 150 mm or to a maximum depth of 300 mm. Compaction of these topsoil stockpiles is not permitted. Where topsoil has been stored for longer than 12 months the Contractor shall turn the soils to maintain viability of the seeds and the soil properties.

The topsoil stockpiles shall be clearly demarcated and vehicle access restricted. The topsoil shall not be contaminated with any fuels, oils or other construction waste or materials.

Topsoil shall not be mixed with any other material (construction rubble, subsoils etc) and erosion of the topsoil stockpiles must be prevented.

#### **B9308.7 Erosion Control**

Soil erosion shall not be tolerated on the Site. Uncontrolled erosion will cause siltation and pollution of the stream and result in loss of valuable topsoil. The Contractor should take all reasonable measures to prevent soil erosion and protect areas susceptible to erosion. Erosion prevention measures must be implemented to the satisfaction of the RE.

Areas affected by construction related activities must be monitored regularly for evidence of erosion. Areas particularly susceptible to erosion include: areas stripped of topsoil, soil stockpiles and steep slopes (gradients>8%).

Soil erosion may result from a diversion, a restriction, or an increase in the flow of stormwater or river flow caused by the presence of temporary / permanent works, operations and activities. Where evidence of erosion appears, the construction of contour berms, cut-off drains or planting of grass sods / ground cover may be necessary.

The Contractor shall take reasonable measures to control the erosive effects of stormwater runoff. A cut-off drain(s) or low berm will be constructed where necessary to lead run-off rain water away from steep, exposed slopes, ensuring that the water does not flow over the slopes and cause erosion. Water from these drain(s) will be disposed of in such a way that the erosive force of the water in the drain(s) is dissipated and erosion does not occur at the drain discharge point(s).

Where erosion does occur the Contractor shall reinstate such areas and areas damaged by the erosion, at his own cost and to the satisfaction of the RE and EEA. Topsoil that has been washed away shall be replaced.

The access / haul roads, after ripping, must be topsoiled and hydroseeded with an appropriate hydroseed mix and the same specifications apply as in the other areas that require hydroseeding.

The order for the seeds must be placed timeously to ensure availability at the time required.

#### **B9308.8 Prevention of Pollution**

The Contractor should ensure that pollution of the soil or water (i.e. surface and ground) does not occur as a result of any activities on Site. Pollution could result from the release, accidental or otherwise, of chemicals, oils, fuels, sewage, wastewater containing kitchen waste, detergents, solid waste and litter, etc. Specific measures to be taken to prevent the pollution of the environment include:



- Immediately report and manage any leakage or spillage with appropriate spill contingency equipment and measures.
- All fuels, oils, lubricants and other petrochemical products must not be stored within 100 meters of any wetlands and rivers.
- Fuel lubricants, solvents, paints, and other chemicals must be stored within the contractors campsite in a facility secured with lock and key. Storage should be on a bunded, impervious site (secondary containment).
- Maintenance of vehicles must only take place in a designated workshop with a concrete base and drip trays for the collection of waste lubricants. Emergency maintenance vehicles must be equipped with drip trays and absorbent material, such as spillsorb, to collect and contain waste oils.
- No rock, silt, cement, grout, asphalt, petroleum product, timber, vegetation, domestic waste, or any deleterious substance should be placed or allowed to disperse into any stream, river, pond, storm or sanitary sewer, or other watercourse.
- Ensure all construction equipment is free of leaks from oil, fuel or hydraulic fuels and is cleaned in an area with a suitable controlled runoff.
- Refueling activities should not be conducted where runoff could carry contaminants into drainage pathways (including stormwater drains/trenches and sewers).
- Washing of vehicles must be kept to a minimum and must only take place in a designated area on an impervious surface which drains into an oil sump.
- Cleaning out of concrete mixers and trucks must take place on a properly designated site where there is no opportunity for the pollution of water bodies. .

#### **B9308.9 Stockpiling / Spoiling of Materials**

The RE and EEA shall approve all stockpiling and spoiling sites and confirm the end-use or rehabilitation plans for these sites.

The stockpiles should be located within demarcated construction sites. Material stockpiled should be done so in such a way as to minimise the spread of materials and the impact on the natural vegetation. The Contractor should ensure that no materials 'creep' into "no-go" areas.

No spoiling of material should take place below the 1:100 year floodline of any river, stream, wetland or water course.

The Contractor, upon completion of the project shall reinstate areas used for stockpiling to their former states.

#### **B9308.10 Asphalt, Bitumen and Paving**

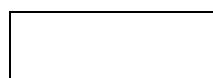
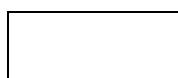
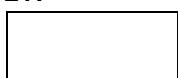
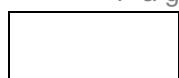
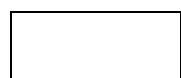
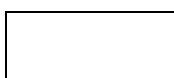
Over spray of bitumen products outside of the road surface and onto roadside vegetation shall be prevented using a method approved by the RE.

The area used for the storage of bitumen drums/products shall comply with the following:

- The floor shall be smooth and impermeable (concrete or thick plastic covered in sand).
- The floor shall be bunded and sloped towards a sump to contain any spillages of substances.
- The bund shall be inspected and emptied daily, and serviced when necessary.
- The bund shall be closely monitored during rain events to ensure that they do not overflow.

When heating bitumen products, the Contractor shall take cognisance of appropriate fire risk controls. Heating of bitumen products shall only be undertaken using LPG or similar zero emission fuels and appropriate firefighting equipment shall be readily available.

Water quality from runoff from newly/fresh bitumen surfaces will be monitored by the RE and remedial actions taken where necessary.



Stone chip/gravel excess shall not be left on road/paved area verges. This shall be swept/raked into piles and removed to an area approved by the RE.

#### **B9308.11 Cement and Concrete Batching**

The permitted location of the batching plant (including the location of cement stores, sand and aggregate stockpiles) will be indicated by the RE. The concrete/cement batching plant shall be kept neat and clean at all times.

The batch plant should not be located closer than 100m from any water course or wetland and not below the 1:100yr floodline of any water course or wetland.

The batching plant shall be located on a smooth impermeable surface (plastic or concrete). The area shall be bunded and sloped towards a sump to contain any spillages of substances.

No batching activities shall occur directly on the ground. All wastewater resulting from batching of concrete shall be disposed of via the wastewater management system and shall not be discharged into the environment.

Used bags shall be stored in weatherproof containers to prevent windblown cement dust and water contamination. Used bags shall be disposed of on a regular basis via the solid waste management system, and shall not be used for any other purpose.

Unused cement bags shall be stored so as not to be affected by rain or runoff events. In this regard, closed steel containers should be used for the storage of cement powder and any additives.

The Contractor shall ensure that sand, aggregate, cement or additives used during the mixing process are contained and covered to prevent contamination of watercourses, the surrounding vegetation and natural rock through wind or water dispersion.

All runoff from the batching plant shall be strictly controlled, and cement- contaminated water shall be collected, stored and disposed of off-site, at a location approved by the RE.

Contaminated water storage areas shall not be allowed to overflow and appropriate protection from rain and flooding shall be implemented.

All visible remains of excess concrete shall be physically removed on completion of the plaster or concrete pour section and disposed of. Washing the remains into the ground is not acceptable. All excess aggregate shall also be removed and disposed of in an approved landfill site.

#### **B9308.12 Dust Control**

Dust is regarded as a nuisance when it reduces visibility; soils private property reduces the palatability of grazing grasses and may retard plant growth. It is also aesthetically displeasing.

The Contractor shall be responsible for the control of dust arising from his operations and activities. Control measures could include regular spraying of working / bare areas with water, at an application rate that will not result in soil erosion or runoff.

#### **B9308.13 Noise Control**

The Contractor shall limit noise levels (e.g. install and maintain silencers on machinery). The Contractor's attention is drawn to the applicable regulations framed under the Machinery and Occupational Safety Act, 1983 (Act No. 6 of 1983), as well as the requirements of the Occupational Health and Safety Specification which forms part of these documents.

All activities with high noise level should be restricted to daylight hours in the residential areas and in the proximity of villages.

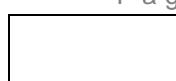
The contractor must discuss the timing of noise generating activities with the staff of schools located close to the road. Appropriate times for construction should be agreed to by both parties.



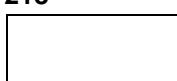
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Witness 2



Employer



Witness 1



Witness 2

The contractor shall inform the residents of any high noise events such as blasting.

Contractor's camps should be located away from tourist operations and quiet rural villages.

Crushing plants should be located as far as practical from residences, schools and social facilities.

#### **B9308.14 Vehicles and Access Roads**

Site vehicles should be permitted access only within the demarcated construction sites or on existing roads, as would be required to complete their specific tasks. Vehicles are not permitted on re-vegetated areas.

Site vehicle traffic should be limited to specific access roads to prevent unnecessary damage to the natural environment.

On the Site the Contractor shall control the movement of all vehicles and plant including that of his suppliers so that they remain on designated routes, are distributed so as not to cause an undue concentration of traffic and that all relevant laws are complied with. In addition such vehicles and plant shall be so routed and operated as to minimise disruption to regular users of the routes not on the Site. On gravel or earth roads on Site and within 500m of the Site, the vehicles of the Contractor and his suppliers shall not exceed a speed of 60 km/hr.

#### **B9308.15 Traffic Control and Temporary Deviations**

Increased traffic, especially heavy vehicle traffic, has the potential to draw complaints from nearby residents. The Contractor is expected to address any complaints received.

The Contractor shall comply with all the applicable local, regional and national by-laws with regard to road safety and transport. He shall instruct his drivers and plant operators that vehicles will be expected to comply with all road ordinances, such as speed limits, roadworthiness, load securing / covering.

Where sections of the road are closed for construction, barricades shall be constructed to prevent unauthorised access at all times. Suitable signage should be erected informing drivers of the road closure and warning of the possible dangers involved in trespassing within the closed areas.

Where the road is to be closed for extended period of time for the purpose of blasting, communities and motorists must be given suitable prior warning through signposting, media notices etc. The safety of motorists should remain paramount at all times.

The Contractor shall keep the local Traffic Control department (Traffic Police) aware of road closure and other activities that will affect traffic flow.

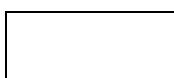
Temporary vehicular deviations should be located so as to cause minimal disruption to surrounding communities, minimal disturbance to flora, fauna and the surrounding landscape and minimal risk of erosion. The deviations shall not impede normal pedestrian or vehicular access to adjoining villages and community lands.

Each deviation route should be rehabilitated as soon as practically possible, and preferably immediately once the construction on the adjoining section of road has been completed.

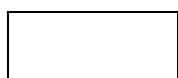
#### **B9308.16 Fire Prevention and Control**

The Contractor shall take all the necessary precautions to ensure that fires are not started as a consequence of his activities on Site. The Contractor, subcontractors and all employees are expected to be conscious of fire risks. The Contractor shall hold fire prevention talks with his staff to create an awareness of the risks of fire. Regular reminders to his staff on this issue are required.

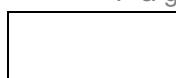
Smoking shall not be permitted in those areas where it is a fire hazard. Such areas shall include the workshop and fuel storage areas and any areas where the vegetation or other material is such as to



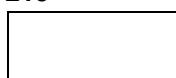
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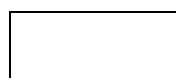
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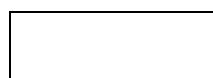
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make liable the rapid spread of an initial flame. In terms of the Atmospheric Pollution Prevention Act (No. 45 of 1965), burning is not permitted as a disposal method.

No fires may be made other than for the purpose of cooking, and must be extinguished with water once they have served their purpose. Cooking fires shall be contained in a fire drum, in an area approved by the RE.

The Contractor shall appoint a Fire Officer who shall be responsible for ensuring immediate and appropriate actions in the event of a fire and shall ensure that employees are aware of the procedure to be followed. The Contractor shall forward the name of the Fire Officer to the RE for his approval.

The Contractor shall ensure that there is adequate fire-fighting equipment (i.e. fire extinguishers and fire beaters) on Site and in all major working areas.

The Contractor shall be liable for any expenses incurred by any organisations called to assist with fighting fires and for costs involved in rehabilitation of burnt areas / property / persons, should the fire be the result of the Contractor's activities on Site.

Removed plant material shall not be dumped across the fence-line or along the fence-line onto private property. If an abutting land owner requests this the Client must be indemnified.

#### **B9308.17 Blasting**

All blasting is to be done in terms of the Minerals and Petroleum Resources Development Act (Act 28 of 2002) and the Mine Health and Safety Act (Act 29 of 1996).

The Contractor shall notify nearby residents and erect appropriate signage, warning of the event, 14 days in advance any blasting. The Contractor is responsible for any accidental damages to persons or property as a result of blasting.

Prior to blasting, the Contractor shall notify the relevant occupants of surrounding land and address any concerns. The Contractor shall notify emergency services, in writing, a minimum of 24 hours prior to any blasting activities commencing on Site.

A crack survey, including photographs, shall be undertaken of all existing structures within a distance of the blasting site specified by the RE. The survey shall be undertaken prior to any blasting activities in order to establish the baseline conditions, and following blasting or on receiving any complaints from the community. Structural damage to houses which has resulted from blasting must be repaired at the expense of the contractor.

The Contractor shall prevent damage to special features and the general environment, which includes the removal of fly-rock. Damage caused by blasting/drilling shall be repaired to the satisfaction of the RE.

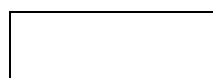
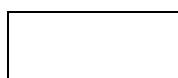
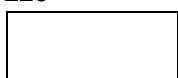
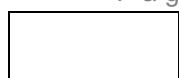
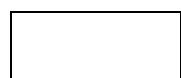
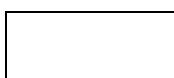
#### **B9308.18 Bridges and Culverts**

The Contractor shall minimise the extent of any damage to the flood plain to that necessary to complete the works, and shall not pollute the river systems as result of construction activities. No construction materials shall be stockpiled on the flood plain.

The Contractor shall not divert, dam or modify any watercourse or stream without the approval of the RE and DWAF.

The existing culvert bridge must be removed as soon as the new bridge has been completed and opened to traffic. Rehabilitation of the disturbed areas must be carried out in consultation with Working for Water.

Bridge construction and culvert installation should, where possible, be planned to take place during periods when stream flow is low.



Avoid operating machinery in waterbodies. Excavation for a bridge or a large culvert should not be performed in flowing water. The water should be diverted around the work site during construction with a cofferdam or stream diversion. Any diversion of a stream requires a separate investigation and an approval from the Department of Water Affairs and Forestry.

Avoid channel changes and protect the embankments of streams and rivers.

#### **B9308.19 Water Abstraction**

Water for construction purpose may be abstracted from rivers or other small streams crossing the road. The required permits must be obtained from the Department of Water Affairs and Forestry. The Contractor shall abstract this water from a temporary sump constructed adjacent to the river.

During water abstraction the Contractor shall take all reasonable measures to limit sedimentation of downstream watercourses due to his activities and shall ensure that the flow in the river is never

reduced below 50% of ambient. The temporary sump shall be removed from the river as soon as practically possible.

#### **B9308.20 Earthworks**

All earthworks shall be undertaken in such a manner so as to minimise the extent of any impacts caused by such activities. No equipment associated with earthworks shall be allowed outside of the Site and defined access routes unless expressly permitted by the RE.

#### **B9308.21 Site Rehabilitation**

The Contractor shall be responsible for complete rehabilitation of the site, including spoil sites, access roads, haul routes, site camp, stockpile, crusher area, ablution facilities and storage areas.

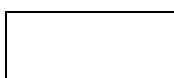
The Contractor shall undertake full rehabilitation under no extra cost to the Client, other than that allowed for in the Schedule of Rates.

The Contractor should implement progressive rehabilitation: once works are complete in a particular area, rehabilitation / re-vegetation could begin. This would provide the opportunity to assess whether or not the methods employed are suitable and successful and would help prevent erosion in impacted areas.

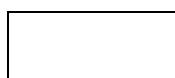
Where re-vegetation of an area is not successful the Contractor will replant these areas, at no additional cost to the Client.

The Contractor shall provide the EEA and RE with a comprehensive plan for rehabilitation of the entire site. This plan must meet the approval of the EEA and RE. The following points must be taken into account when drawing up the Rehabilitation Plan:

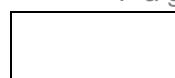
- The Plan should be flexible – where measures are found to be inefficient, the plan shall be modified, at no additional cost to the Client.
- The Contractor shall be responsible for successful rehabilitation and re-vegetation of the site, for a minimum period of 12 months after construction is complete.
- The Plan shall include the eradication of young alien invasive plant species that may have become established during the construction period, in impacted areas and in rehabilitated areas.
- The growth of alien invasive plant species shall be monitored during the 12 month period following construction.
- The Plan shall include grass seed mixes applicable to summer and winter.



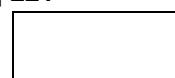
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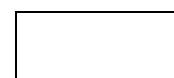
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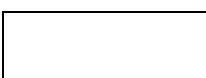
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- The Plan shall include suitable fertilisers and application rates.
- Successful re-vegetation means  $\geq 80\%$  of the seeded area is covered with grass / groundcover.
- Where there is insufficient topsoil to cover an area to specified depth, the Contractor shall import suitable topsoil at no cost to the Client.
- Consideration should be given to using established seedlings of indigenous grasses such as *Digitaria eriantha* and *Cenchrus ciliaris* to at least augment the use of aliens in re-vegetation of bare areas. On eroded soil chopped bush should be spread over bare surfaces, the soil should be re-seeded and the veld rested.

#### **B9308.22 Exotic Vegetation**

Exotic invasive vegetation shall be removed from any working areas and the site camp(s). These vegetation species shall also be eradicated when they begin to establish themselves in disturbed areas (disturbance of the natural vegetation will encourage the establishment of invasive species). In order to discourage the spread of exotic species, soil should not be moved from one part of the site to another without the consent of the EEA.

The EEA shall assist in the identification and eradication of exotic plant species. Methods of removal / eradication may involve hoeing by hand or the controlled application of herbicides.

#### **B9308.23 Community Relations**

The Contractor shall erect and maintain information boards in the position, quantity, design and dimensions specified. Such boards shall include contact details for complaints by members of the public in accordance with details provided by the RE.

The Contractor shall keep a "Complaints Register" on Site. The Register shall contain all contact details of the person who made the complaint, information regarding the complaint itself and measures taken to address the complaint.

#### **B9308.24 Social Disruption**

Where construction activities require the removal of fences from around private land, the occupants shall be warned at least three days in advance. These fences / boundary markers shall be reinstated as soon as construction is complete.

Care should be taken not to damage private property. No access to homesteads / farms or other such areas is permitted without permission of the resident and on agreement with the RE.

The Contractor shall take measures to reduce disruption to users of the area abutting the Site.

#### **B9308.25 Existing Services and Infrastructure**

The Contractor shall ensure that existing services (road, rail, pipelines, power lines and telephone services) are not disrupted or damaged, unless required by the contract and with the permission of the RE.

#### **B9308.26 Protection of the Public**

The Contractor shall be responsible for the protection of the public, and public property, from any dangers associated with the road construction and associated activities, and for the safe and easy passage of pedestrians and traffic in areas affected by project activities.

Any excavation material, spoil sites and other obstructions or excavations shall be suitably barricaded and/or demarcated with hazard tape.

#### **B9308.27 Staff Safety and Education**



All staff shall be given an induction course before beginning work on the site. Part of the induction course will be to make the staff aware of the potential dangers of the road construction activities.

The Contractor must maintain a suitable First Aid Kit at the site office and will have a list of the emergency service contact numbers readily available.

Telephone numbers of emergency services, including the local firefighting service and HAZMAT, shall be posted conspicuously in the Contractor's office near the telephone.

No authorised firearms are permitted on Site.

#### **B9309 EMERGENCY PROCEDURES**

The Contractor's procedures for the following emergencies shall include:

##### **B9309.1 Fire**

The Contractor shall advise the relevant authority of a fire as soon as one starts and shall not wait until he can no longer control it. The Contractor shall ensure that his employees are aware of the procedure to be followed in the event of a fire.

##### **B9309.2 Accidental Leaks and Spillages**

The Contractor shall ensure that his employees are aware of the procedure to be followed for dealing with spills and leaks, which shall include notifying the RE and the relevant authorities.

The Contractor shall ensure that the necessary materials and equipment for dealing with spills and leaks is available on Site at all times.

Treatment and remediation of the spill areas shall be undertaken to the reasonable satisfaction of the RE.

In the event of a hydrocarbon spill, the source of the spillage shall be isolated, and the spillage contained. The area shall be cordoned off and secured. The Contractor shall ensure that there is always a supply of absorbent material readily available to absorb/breakdown and where possible be designed to encapsulate minor hydrocarbon spillage.

The quantity of such materials shall be able to handle a minimum of 200 litres of hydrocarbon liquid spill.

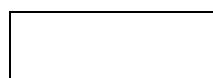
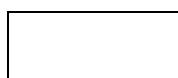
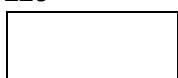
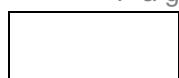
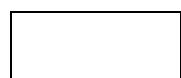
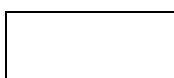
In the event of a fire or accidental leak/spillage, the Contractor shall notify the RE as soon as possible, but at least within 48 hours of the incident being noticed.

The telephone numbers for the closest Hazmat offices should be prominently displayed as bitumen and diesel spillage on construction and road building sites are fairly common. The cleanup procedure is critical to prevent contamination.

#### **B9310 ENVIRONMENTAL AWARENESS TRAINING**

Before any work is commenced on the Site, the Contractor's site management staff including foremen shall attend an environmental awareness training course of approximately one-hour duration presented by the EEA. The Contractor shall liaise with the RE prior to the Commencement Date to fix a date and venue for the course. The EEA will provide the course content. The Contractor shall provide a suitable venue and ensure that the specified employees attend the course.

The environmental awareness training course shall be held during normal working hours. The information presented at the course shall be communicated to the Contractors employees on the site, to any new employees coming onto site after the initial training course and to his suppliers as required by the Project Specification.



The Contractor shall ensure that all attendees sign an attendance register, and shall provide the RE with a copy of the attendance register the day after each course.

The Contractor shall erect and maintain information posters for the information of his employees depicting actions to be taken to ensure compliance with aspects of the Specifications. These information boards shall be erected at the locations, agreed by the RE and should contain the following symbols:

- At working areas: Use drip trays, use toilets, no eating, no littering, no swimming, no picking of flowers, no dogs, no veld fires.
- At eating areas: Use toilets, no littering, no veld fires.

#### **B9311 EXTERNAL AUDITING AND EVALUATION**

In order to ensure that the Environmental Management Plan is effectively implemented, it is important that regular external audits of the Environmental Management Plan are conducted. An External Environmental Auditor (EEA) will be appointed by the client to undertake these audits. The RE shall arrange that these external audits do take place and that a system for addressing any problems identified during these audits, is formulated. The relevant documentation shall be kept and shall be available to the public.

#### **B9312 ENVIRONMENTAL MANAGEMENT DURING DECOMMISSIONING**

Environmental Management associated with the decommissioning of this project will ensure that the following items are addressed at closure and during the defects liability period:

- All cleared sites are rehabilitated with indigenous grass material with a cover of at least 80%.
- All visible alien plants are removed from disturbed sites.
- All recyclable rubble and waste, for example, scrap metal, bottles, cans and plastics are collected and disposed of through a registered recycling company.
- All non-recyclable rubble and solid waste be collected and disposed of at a registered waste disposal facility.
- Provision has been made for stormwater control to prevent erosion from taking place post construction.
- All borrow pits and quarries shall conform to the designed closure specifications, including drainage, slope stability, top-soiling and grass planting.
- Certificates of final completion as required by the appropriate EMPR shall be obtained for all borrow pits and quarries

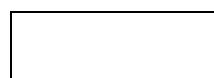
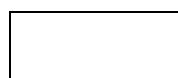
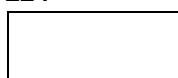
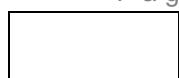
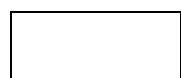
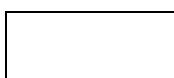
#### **B9313 TOLERANCES**

Environmental management is concerned not only with the final results of the Contractor's operations to carry out the Works but also with the control of how those operations are carried out. Tolerance with respect to environmental matters applies not only to the finished product but also to the standard of the day-to-day operations required to complete the Works.

It is thus required that the Contractor shall comply with the environmental requirements on an ongoing basis.

#### **B9314 MEASUREMENT AND PAYMENT**

The Contractor shall not be separately reimbursed or compensated in respect of his compliance with the provisions of this Section B9300 of the Scope of Works. All costs so incurred shall, save and except to the extent provided for in the Bill of Quantities under SECTION 1300: CONTRACTOR'S



ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS, be deemed to be included in the rates tendered for the various items of work listed in the Bill of Quantities.

The financial guarantee for the rehabilitation of land disturbed by quarrying as per the approved EMP will be returned upon the granting of a Closure Certificate by the DME. This Closure Certificate will comply with the terms of the MPRDA.

Item	Unit
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**B93.01 Environmental Auditing**

(a) External Environmental Auditing cost ..... provisional sum

(b) Handling costs, profits and all other charges in respect of Item 93.01 (a) ..... percentage (%)

"A provisional sum is provided for the cost environmental auditing, which shall include the remuneration of an External Environmental Auditor (EEA). The EEA will be required on a full-time basis and this provisional sum shall be expended as approved by the Engineer.

A separate item for overheads, charges and profit on the above item is applicable.

**B9315 WORK STOPPAGE**

The RE shall have the right to order work to be stopped in the event of significant infringements of the Environmental Specifications, until the situation is rectified in compliance with the specifications. In this event, the Contractor shall not be entitled to claim for delays or incurred expenses.

Any failure on the part of the Contractor to comply with the EMP will entitle the Resident RE to certify work stoppage subject to the details set out.

The Resident Engineer shall be the judge as to what constitutes a transgression subject to the provisions of the General Conditions of Contract. In the event that transgressions continue, the Contractor's attention is drawn to the provisions of the General Conditions of Contract, under which the Contract Supervisor and/or Client may cancel the Contract.

In addition to work stoppage, penalties may be issued where there is damage to the natural or human environment as a consequence of the transgression(s) and/or non-compliance(s). In such an event, the Contractor may be liable to pay a penalty at the instruction of the Resident Engineer.

Lists of incidents that may lead to work stoppage are indicated below – this list is not exhaustive.

- Failure to submit Method Statements timeously.
- Failure to stockpile topsoil properly or materials in designated areas.
- Inappropriate use of adjacent watercourses and water bodies.
- Pollution of water bodies – including increased sediment loads.
- Failure to maintain basic safety measures on site.
- Animal poaching (wildlife or domestic).
- Failure to provide waste disposal facilities or services.
- Excess dust or excess noise levels emanating from the Contractor's Camp and construction areas.
- Any person, vehicle, plant or item related to the Contractor's activities causing a public nuisance.
- Failure to carry out liaison with adjacent landowners; causing damage to property without prior negotiation and/or compensation and/or causing other social infringements.
- Failure to control the pollution risks from dispensing fuel or the storage of vehicles and plant (drip trays).

The Contractor shall be responsible for the costs associated with repairing any damage to the natural or human environment that may result from the transgression and/or the result of the work stoppage.

**B9316 PENALTIES**

The imposition of penalties will be at the discretion of the Client.

The value of any penalty imposed shall be determined in light of the consequential damage caused and the costs required to rehabilitate the damaged area.

Payment of any penalty in terms of the contract shall not absolve the Contractor from being liable from prosecution in terms of any appropriate law.

**B9317 MITIGATORY MEASURES REQUIRED BY THE DEPARTMENT OF MINERALS AND ENERGY****Mitigatory Measures**

The mitigatory measures in the EMP are to manage potential environmental impacts arising due to the construction activities as well as the activities of the construction staff. These mitigating measures are to be read in conjunction with the mitigating measures and recommendations contained in the approved EMP, including any additional recommendations contained in the Record of Decision (ROD) from the DME.

**1. Responsibilities**

- (a) The Contractor (through the Site Engineer) will:
  - (i) Be held responsible for the implementation of these mitigatory measures,
  - (ii) Identify the need and be responsible for the implementation of an environmental awareness training programme for the construction staff,
  - (iii) Supply on request a "Method Statement," which will indicate the procedures to be applied in order to meet the requirements of any aspect of these mitigatory measures,
  - (iv) Ensure that any problems identified during environmental audits or inspections, are addressed and rectified as soon as reasonably possible.

**2. Mitigatory Actions**

- 2.1 Should it be necessary to store materials and equipment on site for short periods, only previously disturbed areas above the 20-year flood level should be used for this purpose.
- 2.2 Any construction camp set up should be clearly demarcated and secured against theft or vandalism and any toxic materials (cement, oil, petrol, diesel, etc) should be very strictly controlled and secured. Such a construction camp should be above the 50-year flood level and should be completely rehabilitated on completion of construction activities.
- 2.3 All damaged areas in the riparian zones resulting from construction operations, should be rehabilitated to prevent erosion and undermining of the riverbank.
- 2.4 All "surplus" soil and rock excavated during construction should be removed from the water course.
- 2.5 No concrete shall be mixed on the soil surface, all concrete mixers to be placed on trays, and precautions to be taken against contamination of the soil through spillage of pre-mixed concrete.
- 2.6 Precautions are to be taken against oil spillage from heavy equipment such as compressors and generators, e.g. through the use of sand or sawdust filled drip trays. All contaminated material (including soil) to be disposed of at a registered waste site.



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

2.7 Adequate toilet facilities (e.g. chemical toilet) shall be provided for workers on site, and all ablutions are to take place in these facilities.

2.8 Scavenger-proof litter containers shall be provided on site and strict control over littering enforced.

2.9 All waste material, including excess construction material, litter and sewerage, shall be regularly removed from site and disposed of at a registered waste facility.

2.10 Strict precautions shall be taken when making open fires.

2.11 No wild animals shall be disturbed unnecessarily in any way.

3. These mitigating measures are to be read in conjunction with the mitigating measures and recommendations contained in the approved EMP, including any additional recommendations contained in the Record of Decision (ROD) from the DME.

## SECTION B9400: OCCUPATIONAL HEALTH AND SAFETY SPECIFICATIONS

This section is measured and payable under the preliminary and general section of the bill of quantities. COVI 19 impacts and aspects, requirements and obligations must be priced into the contractor's OHS obligations.

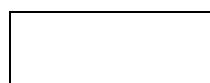
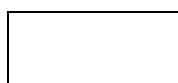
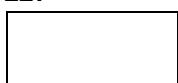
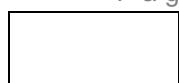
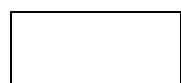
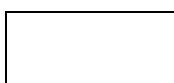
### 1. INTRODUCTION

#### 1.1 LIST OF ABBREVIATIONS

AIA	Approved Inspection Authority
BoQ	Bill of Quantities
CC	Compensation Commissioner
CR	Construction Regulations
DRPW	Department of Roads and Public Works of the Eastern Cape Provincial Government
DME	Department of Mineral and Energy
DMR	Driven Machinery Regulations
DoL	Department of Labour
FEMA	Federated Employers Mutual Association
GAR	General Administration Regulations
GSR	General Safety Regulations
HIRA	Hazard Identification Risk Assessment
H&S	Health and Safety
MH&SA	Mine Health and Safety Act No. 29 of 1996 (as amended)
OH	Occupational Health
OHSA	Occupational Health and Safety Act No. 85 of 1993 (as amended)
OHSS	Occupational Health and Safety Specification
PSHSS	Project Specific Health and Safety Specification
PC	Principal Contractor
PPE	Personal Protective Equipment
ER	Engineer's Representative
RHCS	Regulations for Hazardous Chemical Substances
SANS	South African National Standards (Authority)
SMME	Small, Micro, Medium Enterprise
SWP	Safe Work Procedure

#### 1.2 DEFINITIONS

The definitions used will be those set out in the Regulation Gazette No 7721 of 18 July 2003 with the following additions:



**Client:** The Head of Department, Department of Roads and Public Works for the Province of the Eastern Cape.

**DRPW:** The Head of Department, Department of Roads and Public Works for the Province of the Eastern Cape.

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

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

**Hazard:** Source of exposure to danger

#### **Hazard Identification and Risk Assessment (HIRA) and Risk Control**

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

#### **Health and Safety Agent:**

Means any person who acts as a representative for the Client in managing the health and safety work as their responsible person.

overall

#### **Health and Safety Plan:**

Means a documented plan which answers to the Project Specific Health and Safety Specification; including all the supporting documentation that indicate how the Principal Contractor or Contractor plans to manage H&S for the duration of the Contract.

#### **Induction Training:**

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

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

#### **Regulation/s:**

Shall mean the relevant regulation/s promulgated in terms of the Occupational Health and Safety Act, No. 85 of 1993.

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

**The Act:** Means, unless the context indicates otherwise, the Occupational Health and Safety Act, No. 85 of 1993 and Regulations promulgated thereunder, as amended.

### **1.3 KEY ROLEPLAYERS**

**The following key role players will be identified to the successful bidder.**

**Client Representatives:** (Construction)

**Client Representatives** (OHS)

**Engineer**

**Engineers Representative:**

**H&S Agent**

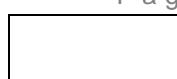
### **1.4 KEY REFERENCES**



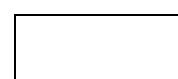
Contractor



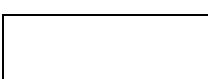
Witness 1



Witness 2



Employer



Witness 2

Applicable COVID 19 Regulations  
Occupational Health and Safety Act No. 85 of 1993 and Regulations (as amended)  
Compensation for Injury and Occupational Diseases Act No. 100 of 1993 (as amended)  
Committee of Land Transport Officials (COLTO)  
South African Roads Traffic Safety Manual (SARTSM) Chapter 2, Volume 13 of 1999  
Road Traffic Safety Act No. 93 of 1996 (as amended).

**2****PREAMBLES**

The Department of Roads and Public Works (DRPW) is tasked to provide infrastructure within the Eastern Cape including the construction of roads and civil structures.

Each year fatalities and serious injuries mar the reputation of the Construction Industry. The DRPW has a responsibility to limit such injuries by ensuring a zero tolerance approach to Contractors and those affiliated to a particular project. Thus a high premium is placed on the H&S of DRPW stakeholders, which include its employees, professional service providers, public and its physical assets. The responsibilities that the Department and relevant stakeholders have toward its employees are captured in this document. The responsibilities stem from both moral, civil and a variety of legal obligations. The Principal Contractor is to take due cognisance of the above statement.

The DRPW, as the Client and its Health and Safety (H&S) Agent acting on its behalf, shall provide a project specific Health & Safety Specification (PSHSS) for the project and provide it to the Principal Contractor/s making a bid or appointed to perform construction work for the project, or parts thereof.

**2.1****PURPOSE OF THE OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION (OHSS)**

The OHSS is a performance specification to ensure that the Client (DRPW) and any bodies that enter into formal agreements with the Client, i.e. Engineers, Principal Contractors (PC) and Contractors, achieve an acceptable level of OHS performance. The Client has a zero tolerance to non-compliance and the endangering of the lives of workers, and the public, thereby being placed at risk.

No advice, approval of any document required by the OHSS (i.e. hazard identification and risk assessment, action plans) or any other form of communication from the Client shall be construed as an acceptance by the Client. Nor shall such communication relieve or absolve the PC from any obligation or from achieving compliance with legal requirements. The PC remains responsible for achieving the required performance levels and must sign an OHSA S.37.2 mandatory agreement with the Client.

The H&S Specification highlights the aspects to be implemented over and above the minimum requirements of current legislation. Requirements may be changed should new risks or issues are identified that could not have been foreseen during the design phase of the project.

**3****IMPLEMENTATION OF THE OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION**

The project specific H&S specification (PSHSS) forms an integral part of the Contract, and PCs are required to make it an integral part of their Contracts with Contractors and Suppliers. A PSHSS will be available for each level of Contract and Contractor, and must be complied with. Failure to do so will be noted as a serious offense, and will result in a penalty, stoppage of part of, or the whole works, with no extension of time or allowable claims; this includes the submission of an approved health and safety plan.



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

This specification must be read in conjunction with the OHSA, its Regulations (as amended) and any other standards relating to work being done, and ensure compliance thereto. The information relative to the scope of the project, the works etc. is detailed in the tender document, are to be taken into account when developing the H&S plan and associated documentation. The detailed design risk assessment is included, as is a summary of risks identified as attached.

The OHSA S.37.2 Mandatory Agreement found in the Tender Document must be fully completed by the PC. These documents shall be deemed to form part of the returnable Contact Documents.

No work may commence without written approval of the H&S plan by the H&S Agent. Failure to comply with this requirement will result in a penalty, stoppage of part of, or the whole works, with no extension of time or allowable claims.

Should there be design changes, or change in the scope of works, an amended PSHSS may be issued. Where amended PSHSSs are issued, the PC will be required to ensure a resubmission of an amended H&S plan for approval. Further to this, the PC must ensure that a similar system must be implemented between all their Contractors.

The H&S Agent will visit the project at least monthly, or more frequently if deemed necessary to ensure compliance. All activities on the site and all appropriate documentation will be monitored and reported on to the Client, Engineer and Contractor. Non-conformances will be issued and penalties or work stoppage will be issued where appropriate. Communication between the H&S Agent and the PC will be through the Engineer or Engineer's Representative (ER) as determined at the commencement of the project.

#### 4

#### REQUIREMENTS AT TENDER STAGE

Tenderers are required to submit a pre-tender H&S plan with their Tender submission.

The documentation submitted will be used to assess the competence of the tenderer, as required in the CRs, therefore the information submitted needs to be complete and as close as possible to the final product.

Adequate pricing for H&S is also required, and the appropriate section in the BoQ is to be completed. Failure to do so could result in the Tender being regarded as non-responsive.

The PC shall ensure the following information is submitted as part of the H&S plan with his completed Tender:

- A project specific H&S Plan in line with this project specification which will be subject to approval by the H&S Agent. This must include all supporting documentation as required to verify the H&S system;
- A declaration to the effect that he has the competence and necessary resources to carry out the work safely in compliance with the Construction Regulations 2003;
- A valid Letter of Good Standing;
- At least one copy of minutes of previous Occupational Health and Safety Committee meetings;
- Incident Investigation Reports for other projects of a similar nature undertaken by the tenderer;
- Claims ratio receipt from FEM or the Compensation Commissioner for the previous review period and
- Detailed technical method statements for approval by the ER and appropriate risk assessments and safe work procedures for approval by the H&S Agent:
  - Site establishment;
  - Clearing and grubbing;



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

- Opening and establishing quarries and borrow pits;
- Haul road construction, and
- Construction of the site laboratory, offices and accommodation.

Further method statements are to be submitted prior to, and during the project will require the approval of the ER before work on that aspect or activity can commence.

#### PRE-START UP ACTIVITIES:

Once the H&S plan has been approved there may well be additional documents that include appointments, emergency arrangements or further method statements and risk assessments. The inclusion of such aspects for personnel or Contractors commencing work at this time is required to be approved and verified by the Engineer and H&S Agent.

### 5. Specific Project Risks and Requirements

The aspects covered in Sections 6.4 to 6.7 have been noted as risk areas in the design hazard identification and risk assessment (HIRA), and are to be noted when developing the H&S plan and associated documentation. The COLTO Standard Specification (among other) document was used to develop the HIRA, and the same reference format is used. Where particular risks are noted, further requirements may be specified. Identification of low or medium risks does not mean there is no risk involved. In depth HIRAs and management systems are required to limit as much risk as possible as required in OHSA. Requirements for H&S systems, standards, PPE etc. are noted (but are not limited to), and the management thereof should be included in the documentation.

Technical method statements are to be developed for all key activities as they relate to the programme and approved by the ER. HIRA are to be developed using the approved method statements. Method statements are to incorporate the following information: plant, equipment, labour requirements, and the duration of each activity.

H&S method statements and safe work procedures (SWPs) (or safe operating procedures (SOPs)) are to be used by key site staff for daily activities and supervisors to ensure the site, workers and the public are kept safe. The environmental issues may be included, but will need to be approved by the Environmental Consulting Officer (ECO).

### 6 GENERAL REQUIREMENTS

#### 6.1 Summary of Risks identified during Design

##### 6.1.1 General Requirements and Provisions (Series 1000)

Information in this series cover the start-up aspects of the project, with a number of the activities (excluding establishment) lasting the duration of the contract.

- Telkom and Eskom overhead lines are present, however they will remove their own services where they encroach on the construction;
- River water is to be treated as contaminated and is not suitable for drinking. Suitable drinking water will need to be made available to those accommodated at site camps and for workers along the route;
- The traffic accommodation will require special management, despite the levels of traffic being relatively low. Work will be done in 24 hour closures in half widths. Competent traffic safety officer (TSOs) and staff to be appointed. Drawings from the SARTSM will be provided by the Consultant and must be used as the daily registers. The TSO is to ensure all work is managed by the appropriate drawing. The aspects as detailed in the tender document under Section 1500 will be strictly applied;



- Heavy plant requires competent, fit operators and kept in good working order. Daily records of all plant to be available;
- Clearing and grubbing of all areas will mostly be done by hand.

#### 6.1.2 **Drainage (Series 2000)**

Drainage structures affect the entire project, and include all the excavations, some formwork and support work. All designs must be approved by a competent person, and managed by a competent supervisor. Many of these activities are LI, and therefore the ergonomic risks have been identified. Attention to the rotation of workers when doing LI activities is required.

- Drawings for all structures will be provided. Most structures will be built using LI methods,
- Chutes, v-drains, catchpits and manholes will be required, and ergonomic issues are to be taken into consideration. Where SMME's or other contractors are used, the appropriate procedures as required are expected to be followed.

#### 6.1.3 **Earthworks and Pavement Layers of Gravel or Crushed Stone (Series 3000)**

- All material will be considered as silica containing and require compliance with Government Gazette No. 66 (Feb 2010, No. 32930) is required. Items have been allowed in the BoQ for measuring dust and personal dosimetry for the duration of the contract. Dust levels are to be kept to a minimum from the borrows, and relating to haulage. The appropriate PPE is to be issued and the wearing thereof enforced where required, and
- Stockpiling of material for storage or spoil will be allowed in identified areas.

#### 6.1.4 **Asphalt Pavements and Seals (Series 4000)**

#### 6.1.5 **Ancillary Roadworks (Series 5000)**

Most ancillary work will be done using the LI method. Where SMMEs are used, full compliance with the DRPW requirements is required.

- Gabion baskets will require placement and filling by hand. Neon green double dipped PVC gloves have been identified as the most appropriate for this task. Use of these or similar is recommended;
- Guardrails will be required along the route. Pre-treated creosote, cut and drilled timber posts and Armco barriers have been specified;
- Fencing and installation of gates will be required along both sides of the route. Existing fencing may be repaired;
- Road signs may be removed and replaced. Pre-cut and drilled poles have been specified. and
- Finishing of road reserves, clearing of drains, other stormwater structures will be required to ensure adequate water drainage.

#### 6.1.6 **Specified Hazardous Chemical Substances**

The contractor has the responsibility to identify potential hazardous substances to be used or encountered during construction and provide mitigation of risk measures for implementation.

### 7. **NOTIFICATION OF COMMENCEMENT OF CONSTRUCTION WORK**

The PC shall notify the Provincial Director of the Department of Labour (DoL) in writing, in the form of the Annexure A in the CRs. This shall occur after award of the contract, but before commencement of construction work. Proof of submission and/or receipt must be provided. Work will not commence without the notification being correctly completed and signed by the Client. The Notification shall only be signed by the Client following the approval in writing by the H&S Agent.

Where changes to the conditions given in the submission are required (i.e. Contractors, completion dates, increase in workers), a revised Annexure A in the CRs must be submitted to the Department of Labour. It is preferable that the completion date includes the defect liability period. A copy of the notification form and any further submissions must be kept in the H&S file.

## 8. HEALTH AND SAFETY PLAN FRAMEWORK

The aspects related to the project outlined in the previous sections are to be taken into account when drawing up the H&S Plan. The PC is required to demonstrate competence by providing a H&S system that will address the requirements of the project.

The current legislative requirements, SANS codes and any other standards that may guide practice are to be taken into consideration. The following aspects must be addressed in the H&S Plan, as they have been identified in the design HIRA, as playing a role in reducing the overall risk of a particular activity, or section of the project. The H&S Agent may from time to time request additions or systems as they relate to the works at the time. The PC must include in his Health and Safety file an organogram showing all appointments and responsibilities on site.

The PC is to prepare one or more site layout drawings to indicate at least the following:

- positions of emergency personnel and equipment at the site camp, or each fixed working area;
- traffic routes for plant and pedestrians, parking;
- storage areas (flammable stores, materials etc.)

Such drawings could be the same as those required by the ECO. Such layouts are to be updated regularly throughout the project.

### 8.1 APPOINTMENT OF COMPETENT SITE PERSONNEL

The CEO (OHSA S16.1) of the PC will take overall responsibility for the appointment of competent site staff for the duration of the project. Should the CEO not be personally involved in the project, the H&S responsibilities are to be delegated to the Site Agent (OHSA 16.2). All other legal appointments are to be made with relevance to the type of work required and kept current with the project programme. The construction team is to ensure the H&S Officer is kept up to date with all planned activities, to ensure all H&S requirements are met.

All construction/technical method statements are to be generated by senior site personnel, and the appropriate risk assessments developed therefrom in conjunction with the H&S Officer.

The Occupational Health and Safety Plan shall include the following, but not be limited to the following key appointments:

#### 8.1.1 Construction Supervision

Competent supervisors will be appointed to manage part or all of the works and have training and/or experience in the area of responsibility. All site supervisors must show evidence of basic training in H&S, and an understanding or training in areas of responsibility (i.e. risk assessments, method statements etc.).

Multiple competent supervisors may be appointed where justified by the scope and complexity of the works. Curriculum Vitae (CVs) are to be submitted for approval by the Agent, and/or Client. Each supervisor will be held responsible for the safety of working teams and subordinates, housekeeping and stacking and storage of materials.

#### 8.1.2 Construction Health and Safety Officer



The PC will employ at least one competent, full-time H&S Officer for the duration of the contract. The H&S Officer's CV is to be submitted for approval by the H&S Agent, preferably at pre-tender phase. The PC is to ensure adequate resources are provided in order to undertake all responsibilities (i.e. mobile phone, computer and internet access, vehicle etc.) Qualifications shall include SAMTRAC or similar, with a minimum of two years exposure to Civil Engineering Construction.

The H&S Officer will be held responsible for all H&S on the project. Senior site staff and supervision, Contractors are to follow systems, instructions etc, at all times. No new workers or Contractors may commence work without approval or following the H&S plan as submitted. Failure to do so will be considered a serious offence.

The H&S Officer shall not be the same person as the Traffic Safety Officer, but will be responsible for ensuring that daily traffic management is adequately managed for all teams.

A close out meeting will be held at the end of each formal audit by the H&S Agent and findings will be issued in the form of site instructions. Senior site staff will attend the close out meeting.

A monthly report of all H&S activities and incidents is required by the end of the first week of each month, or at a date agreed to by the H&S Agent and the H&S Officer. The H&S Officer will be responsible for collating the H&S documentation (electronically) at the close out of the project. A list of the typical aspects that should be provided is available as **Annexure C** to this document.

#### 8.1.3 Traffic Safety Officer (TSO)

The PC is to appoint a competent TSO. The TSO shall be responsible to the H&S Officer. The CV of the TSO is to be submitted to the Engineer and H&S Agent for approval. Attention is drawn to the provisions of Section 1500 of the COLTO specifications as given in the Contract Data and Scope of Work. Furthermore, no workers will be allowed to be transported in open vehicles, or with plant and materials.

Traffic accommodation drawings will be provided by the Engineer, and any changes suggested or required are to be discussed and approved by the Engineer. Speed controls must be clearly stipulated and managed. Speed limits must be strictly adhered to by all construction traffic. Unreasonable limits may be revised by the Engineer and/or H&S agent. Additional care must be taken where workers and construction traffic interface. This should be in the form of flagmen to direct trucks and adequate signage as directed by the Engineer.

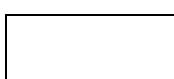
A system of recording daily traffic accommodation is to be provided. Photographs are to be taken following the placement of the accommodation to prove compliance. All daily records must be signed by the ER.

It must be noted that further penalties are specified for non-compliances in this PSHSS.

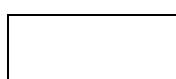
#### 8.2 Health and Safety Representatives and Committee

H&S Representatives are to be appointed following the start up of the project. Representatives from local labour can be appointed to represent such labour for the duration of the contract. Local labour should not be responsible for H&S duties unless appropriate training has been provided and the H&S Officer deems such labour competent to do so. Development in H&S of such labour would be an advantage to the community and the PC. H&S Representatives are to be actively involved with H&S and serve on the H&S Committee.

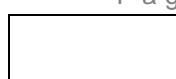
The H&S Officer shall ensure there is a H&S Committee made up of active, site staff and H&S Representatives, representing each work area, including all Contractors. Meetings will be held at least monthly, and more frequently if so instructed. Key site staff is to be appointed. Issues arising from the H&S Agent audits are to be discussed, as well as all H&S related issues.



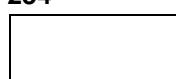
Contractor



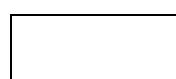
Witness 1



Witness 2



Employer



Witness 1



Witness 2

Minutes are to be distributed and discussed among all workers and Contractors and records kept thereof. Failure to do so will be deemed to be a moderate offence.

### 8.3 APPOINTMENT OF COMPETENT CONTRACTORS

The Principal Contractor is to ensure compliance with the Clients minimum standards and all legislative requirements. The same H&S standards required of the PC are to be applied to all Contractors. An index of all Contractors and Suppliers is to be on file and kept updated at all times. The PC is to ensure there is sufficient funding for H&S compliance by each Contractor.

The following minimum aspects are applicable to any Contractor appointed:

- The H&S Officer is to ensure a Contractors appointment and approval of H&S documentation at least seven (7) working days prior to commencing work.
- No Contractor may work under the PCs Compensation registration number. If required the PC may assist SMMEs with their registration with the Compensation Commissioner. However, such Contractors will not be able to commence work until proof of registration or Letter of Good Standing has been received.
- No work may commence without Mandatory agreements between parties in place.

The following aspects are applicable to Suppliers or short-term works (surveying, repairs, servicing, deliveries etc). Cognisance is to be taken of the level of risk involved and the H&S Officer is to ensure the level of H&S documentation is appropriate:

- Mandatory agreements in place
- Letter of Good Standing
- Method statements and risk assessments
- Available information relative to:

Load testing and registers for cranes or lifting devices

Medical certificates of fitness

Safety data sheets (SDSs)

Failure to provide written approval of H&S documentation will be considered a serious offense, and could result in aspects of, or all the activities being stopped and penalties implemented

## 9. GENERAL RISK MANAGEMENT

### 9.1 Health Risks and Medical Surveillance

The specified products have been listed above. As some products have not been identified, the PC is to ensure the H&S Officer and all supervision is responsible for ensuring the safe use of such products, and their inclusion into method statements and risk assessments. The appropriate MSDSs are to be obtained for all products and used to develop the H&S documentation as they relate to the works.

Due to the LI component, ergonomic risks are to be noted and as such all workers (including those of Contractors) are to be included in the medical surveillance programme.

Workers will be exposed to noise, dust, volatiles and vibration (whole body and upper body) due to the type of plant, materials specified and the general nature of the works. Silica and general environmental monitoring for the general construction, as well as works at borrow pit and the quarry have been allowed for in the BoQ, as well as the allowance for medical surveillance.



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

Environmental monitoring results and risk assessments are to be made available to the occupational health professionals doing the medical surveillance. The use of occupational risk exposure profiling (OREPS) and job descriptions are to be used to determine specific exposures for management.

Medical surveillance will commence at pre-employment. All workers (including Contractors) are required to be in possession of a medical certificate of fitness prior to commencing work. Annual medical surveillance is required (unless identified as being required more frequently), as well as an exit medical. Arrangements for keeping medical records for the required time are to be noted. It is preferable that the PC has a medical surveillance plan. Full medical records are not to be placed in the H&S file. A procedure for managing the medical records which require safekeeping for prescribed periods are to be addressed.

Given the potential health risks the following aspects are to be included in each medical surveillance intervention:

- Full medical, surgical and occupational history;
- Full physical examination of all systems, and
- Referral if required for the management of identified health issues that may affect the worker.

Specific testing for existing conditions and limitations relative to exposure could include, but are not limited to:

- Audiometry (hearing tests);
- Spirometry (lung function testing);
- Chest X-rays;
- Liver function testing (volatiles), and
- Any other tests identified as relevant.

Failure to do so will be considered a serious offence and a fine of R500 per labourer who has not undergone medical screening is payable for each week worked by that labourer.

#### 9.1.1

#### Noise Risks

All plant and equipment is to be measured for noise levels as soon as the majority of plant is on site (including Contractors). Findings are to be discussed at the H&S Committee and H&S Representatives and Supervisors are to ensure that noise zones identified and wearing of PPE in them is enforced. All plant brought in by plant hire companies is to be compliant with the Noise Induced Hearing Loss Regulations.

Audiometric testing of all workers is to be included in the medical surveillance programme. Double audiometric testing at pre-employment and single tests thereafter is required. These should be repeated annually and as part of the exit medical. Audiometry records are to be available in the H&S file.

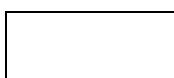
Suitable SANS approved hearing protective equipment shall be issued and worn. Where several items of construction plant are in operation at or near to each other, the noise zone for the combined plant should be established and suitable hearing protective equipment used within this zone.

Failure to do so will be considered a serious offence.

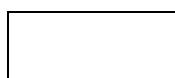
#### 9.1.2

#### General Environmental Conditions

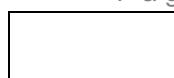
Compliance with the Environmental Regulations (as amended), among other is required. Environmental monitoring of ventilation, lighting and dusts may be deemed to be required by the Approved Inspection Authority used to measure the environment. Copies of the relevant reports and actions taken in respect thereof are to be placed in the H&S file.



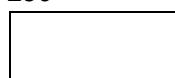
Contractor



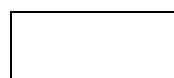
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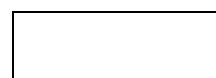
Witness 2



Employer



Witness 1



Witness 2

## 9.2 Emergency Procedures

Attention to emergency planning and procedures is very important. The full emergency plan must form part of the supporting documentation with the H&S Plan. The H&S Agents approval of all emergency plans and procedures is required prior to commencement on site. It is advised that the system should be simple and easy for any worker to follow. The plan may be adapted should new information or risks are identified.

First aiders shall be available in each working team, and be able to work as a team when responding to any emergency on the project.

The procedure shall detail the response plan in relation to the works, and include at least (but are not limited to) the following key elements:

- Appointment of a competent emergency response co-ordinator and wardens;
- Lists of first aiders, and
- Requirement in terms of identified risks:
  - Fire;
  - Explosions;
  - Falls from heights, and
  - Motor vehicle accidents.

The emergency plan is to ensure the inclusion of local service providers where possible such arrangements should be made with these persons prior to the commencement of the project.

The contents of such plan must include:

A list of telephone numbers for the client, the client's health and safety agent, the C.E.O of the contractor, site management and emergence personnel such as first aiders and fire fighting teams if required.

It must also include local emergency services telephone numbers.

### 9.2.1 First Aiders and First Aid Equipment

Competent, trained First Aiders are to be formally appointed for the project with at least one level 3 first aider assigned to each team. Contractors are expected to ensure compliance and manage their own first aiders and equipment.

The PC shall provide an on-site First Aid Station with first aid facilities, including first aid boxes containing, at least the requirements of manage the type of emergencies identified. It is suggested that all supervisors carry an appropriately stocked first aid kit in their vehicles at all times.

### 9.2.2 Fires and Emergency Management

The PC must ensure that any fire risks will be managed appropriately. Appointed fire fighters could be appointed at offices or areas where fire risks are deemed high. The emergency plan is to include the risk of fire at site camps, on site and related to any specific activities.

Fire extinguishers will be appropriate for the risk and in sufficient numbers to deal with the type of fires that could occur. Every item of heavy plant, e.g. graders, TLBs rollers etc, should be fitted with an appropriate fire extinguisher.

### 9.2.3 Incident Management and Compensation Claims

The PC will ensure there is a management system to investigate all incidents. All serious incidents involving any form of disabling injury or fatality are to be reported to the Engineer and H&S Agent telephonically immediately. This shall be confirmed in writing as soon as possible after the incident.

Full details are to be included in the H&S meetings, and each site meeting. The details are also to be included in the monthly report.

Failure to comply with emergency provisions will be considered a serious offence, and the operation or project may be stopped if deemed inadequate for the work at the time of assessment or site inspection.

### **B9.3 Personal Protective Equipment (PPE) and Clothing**

The wearing of the identified SANS approved PPE at all times is non-negotiable. The PC shall ensure that all workers (Including Contractors and other PCs) are issued with and shall wear:

- Masks and/or visors
- Hard hats;
- Protective footwear;
- Reflective vests and overalls;
- Eye and ear protection, and
- Any other necessary PPE identified from MSDSs or risk assessments.

Adequate quantities of PPE shall be kept on site at all times. This shall include necessary PPE for visitors. The procedures for managing PPE are to be in a formal procedure submitted with the H&S plan for approval.

Any person found on site without the necessary PPE will be removed from site until the PPE is supplied and worn, and fines issued per non-compliance.

### **9.4**

### **Occupational Health and Safety Signage**

On-site H&S signage is required. Signage shall be posted up at the site camp entrances, as well as at fixed or temporary working areas and other potential risk areas/operations including vehicles. These signs shall be in accordance with the requirements of the General Safety Regulations or SANS requirements as amended. Signage is to be noted on the site drawings indicating where fixed signage is required.

Signage is to include (but not be limited to) the following:

- 'no unauthorised entry';
- 'report to site office';
- 'site office';
- 'beware of overhead work';
- 'hard hat area' or other PPE requirements noted;
- First aid box positions (including vehicles), and
- Fire extinguishers.

Signs shall be posted permanently or temporarily at areas of work on site indicating that a construction site is being entered and that persons should take note of safety requirements. The Contractor shall establish a system for controlling entrance to the Site office and camp area.

### **9.5**

### **Induction of Employees and Visitors, General H&S Training**

A formal induction programme is to be submitted as an addendum for approval with the H&S plan. Inductions must be carried out for all workers and visitors to the site. Pre-task training is required to ensure workers are familiar with the risks and H&S measures of the work or tasks to be done.



Such training is to be done at least daily. Records of inductions and pre-task training are to be kept in the H&S file.

Any person found on site without proof of induction will be removed from site until the proof is supplied and, and fines issued per non-compliance.

#### **9.6 Use of Support Work, Scaffolding and other Temporary Works**

Where temporary works are envisaged on the project, these must be properly designed and signed off by a competent person. In these instances a competent person is defined as a Professional Engineer (registered with ECSA) who has sufficient experience in the design of the type of temporary work in question to be able to assess the design. The appropriate competent persons are to be appointed to manage and monitor such works to the satisfaction of the Engineer. Where the scaffolding, and /or support work is to be supplied and designed by a specialist company, care must be taken to comply with all the requirements of the supplier. Records and registers are to be properly completed and kept in the H&S file.

Failure to do so will be considered a serious offence.

#### **9.7 Testing Laboratory and the use of Radioactive Equipment**

A joint laboratory may be required, or a service provider will be appointed for the project. The service provider will be seen as a Contractor, or where appointed as a joint laboratory, as a PC. All the H&S rules and requirements are to be met. Where appointed as a PC, the H&S Agent will be responsible for approving the initial H&S plan and ensuring on-going compliance. All other requirements of the construction PC are to be met. Each PC is to be familiar with the H&S rules of each party. Mandatory agreements, Inductions and emergency requirements among other are to be addressed and managed to ensure limitation of H&S risks.

The use of radioactive equipment for the measuring of compaction parameters shall conform to the requirements of the "Code of Practice for the safe use of soil moisture and density gauges containing radioactive sources" as published by the Department of Health: Directorate: Radiation Control Soil revised September 2001. Method statements risk assessments and the appropriate training will be required.

Failure to do so will be considered a serious offence.

#### **9.8 Transportation of Workers on Site**

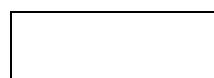
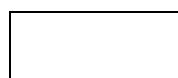
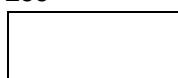
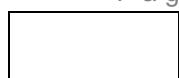
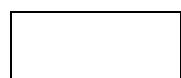
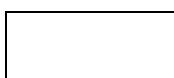
Transportation of workers shall comply with the relevant legislative requirements. Vehicles used to transport workers to, from, or on site, shall have secure seats and be covered. The cover shall be securely fixed to the vehicle. No equipment or materials shall be transported in the same vehicle at the same time as workers. Failure to transport workers in a safe manner will be regarded as a serious offence. Tenderers must indicate in their OHS plans what type of transport is envisaged and how this will be managed.

Failure to do so will be considered a serious offence.

#### **9.9 Quarries, Borrow pits, Crushers, Blasting and Batch Plants**

It must be noted that the use of quarries and borrow pits falls under the Mine Health and Safety Act ((290f)1966 and its Regulations. Work in these areas must comply with these requirements and separate appointments and CoPs will be required.

Where single or multistage crushers are established on site, for quarries or borrow pits, the requirements of the MH&SA as well as the OH&SA and Regulations shall apply. Dust suppression systems (water or closed systems) and regular monitoring are required. The added requirement of Chest X rays for workers is to be added to pre-employment and 2 yearly thereafter.



The Department of Mineral and Resources (DMR), as well as the H&S Agent will carry out audits on this aspect of the project. Non-conformances raised by either party will require closeout within specified time periods negotiated at the time.

Whichever form of batch plant is used, for mixing concrete or slurries for surfacing, guards and protection of nip points, emergency stops etc. are to be appropriately managed by competent supervision. Edge protection, movement of plant and dust management are required.

All blasting must comply with the Explosives Act No. 15 of 2003 and the OHSA and MH&SA or other legislation as they apply. Method statements and risk assessments will be required before blasting will be permitted. The Engineer and H&S Agent will be required to approve the arrangements. Should a blasting Contractor be used, the requirements relating to the management of Contractors shall apply.

Failure to do so will be considered a serious offence.

#### 9.10 Management of Plant and Equipment

A substantial amount of large plant and equipment is likely to be used. Close control of the PCs plant and equipment is required, including that of Contractors.

Daily monitoring of all plant and equipment is required prior to commencing work. Full lists of hired and own plant are to be available at the H&S Agent's audit. All daily inspection records are to be kept in the H&S file. Registers are not to be more than 1 week behind. Plant hire or haulage Contractors are to comply with the requirements, and comply with all H&S standards for the project.

Only competent, fit plant operators are to be used. Medical certificates of fitness are required for all operators. Noise levels are to be displayed on plant.

Any plant or slings used to lift plant or material require annual load testing by an AIA. Operators are to be adequately trained and certified to operate cranes. Certificates and registers are to be placed in the H&S file.

Movement of plant in closures and in confined working areas is to be closely monitored and managed by the TSO and supervisors. The blind spots of plant are to be taken into account and workers and Contractors protected accordingly.

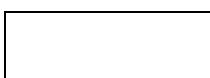
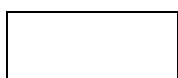
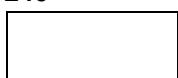
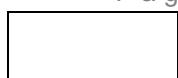
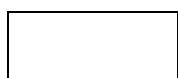
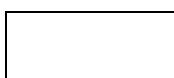
Failure to do so will be considered a serious offence.

#### 9.11 Excavations

Steep slopes require careful management. The Geotechnical report is available and is to be utilised to assess ground conditions. Shoring may be required, where indicated in the Geotechnical report or by the Engineer. The PC is to ensure that the Community Liaison Officer (CLO) and the local community, schools and general public are aware of the dangers of open excavations.

The H&S Officer is to ensure that all Contractors follow the same requirements as they relate to excavations. The Engineer may stop work at any time should the working area be deemed unstable. Method statements are to be approved by the Engineer and risk assessments are required. Workers are to be trained in the risks and protection measures, and the appropriate PPE is to be issued as highlighted in the risk assessments.

A competent person is to be appointed to manage excavations. All equipment and conditions are to be checked daily prior to work commencing. Communal registers for excavations on site are not permitted. Excavations should preferably not be open beyond what can be worked daily. Where excavations need to remain open, all excavations are to be properly protected, candy striped tape is not acceptable. Plastic mesh supported on adequate droppers 1m high should be used (approved



by the Engineer). Berms are required to be a safe distance from the edge of the excavation. Stepped excavations are encouraged.

Adequate numbers of ladders are to be available to ensure safe access and egress from excavations. Ladders are required for excavations of greater than 300mm, and the ladder is to extend at least 1m above the edge of the excavation. No wooden ladders are allowed on site. Registers are to be kept current and placed in the H&S file.

Failure to do so will be considered a serious offence.

#### 9.12 Inclement Weather

High levels of humidity and temperatures during the summer months may be experienced. Workers are at greater risk of heat exhaustion where the discomfort index rises above 100. A weather station has been allowed for to monitor temperature and humidity specifically. Should the discomfort index rise above 105, work may be partially or totally stopped.

During winter in area known for cold weather notice must be taken of the wind-chill factor. Workers must be supplied with adequate protective clothing and shelters provided as necessary.

Flooding may occur during the rainy season. High winds may be experienced and to limit dust or danger when working at heights, a wind speed should be set at which work may be stopped or the workers in an affected area moved.

The emergency plan is to include how these and other weather extremes identified are to be managed. The general aspects as detailed in the Environmental Regulations will be applied.

All decisions regarding work stoppage will be decided between the PC, the H&S Officer and the Engineer.

Failure to manage specific conditions or address issues timeously will be considered a serious offence.

#### 9.13 Auditing

External auditing by the H&S Agent will be done at least monthly or more frequently if deemed required by the H&S Agent, Client or Engineer. The site will be inspected and the documentation audited relative to the activities and H&S plan. The H&S Officer of the PC must accompany the Client, or the H&S Agent, on all audits and inspections.

The PC will ensure that all their Contractors are audited at least monthly prior to the H&S Agents monthly audits. Audits may be done more frequently where short term contracts are in place, or deemed high risk. Audit results will be acted upon and non-conformances and fines issued. The Client, Engineer or H&S Agent may act or require further outcomes if non-compliances are noted or unsafe acts are noted on site. Internal audits are to include site conditions as well as ensuring H&S files are appropriate, and compliant.

Failure to address findings or non-conformances will be considered a serious offence.

#### 9.14 Communication on Site

All communication on site will be done through the Engineer to the PC and be in writing, including the issue and responses to non-conformances and H&S audit results.

Failure to address issues timeously will be considered a serious offence.

#### 9.15 Care of Workers on Site (Welfare)



Adequate toilets, clean, safe drinking water and decent shelter will be afforded workers at all times.

Toilets will be within reasonable distance of workers, or placed with each working team in safe, with reasonable privacy. Only bacterial or enzyme based products may be used in portable toilets. The ratio of portable toilets on site will be a minimum of 1:10. Daily cleaning and increased removal of waste may be required if deemed necessary. Proof of safe disposal of waste will be required. Waste removals Contractors, or the PC are to ensure the appropriate H&S systems are available to limit exposure to sewage.

Hand washing facilities will be provided. The Environmental and Facilities Regulations will be adhered to at all times.

Failure to address issues timeously will be considered a serious offence.

#### **9.16 Discipline, Alcohol and Substance Abuse**

All employees (management included) are to follow instructions given in the interest of H&S. Disciplinary action is to be imposed on those who do not follow such instructions or company rules or policies.

No person is allowed to work or access site if under the influence of alcohol or other substances that could impact on their own or others safety. The PC is to have a drug and alcohol policy available to manage such instances.

These requirements are applicable to any employee of any organization providing services on site. Penalties may also be applied by the Client, OHS Agent or Engineer.

### **10 HEALTH AND SAFETY FILE**

The documentation submitted and approved following the awarding of the contract will be used to form the H&S file. The H&S file is required to be laid out in a logical manner, and documentation filed within the file is to be easily accessible. The following completed information shall be included (but not be limited to):

- The PSHSS;
- The H&S Plan;
- Appointment by Client;
- Mandatory agreement with Client;
- Notification of construction work;
- A record of all working drawings, calculations and design where applicable;
- Detailed list of Contractors with contact details, appointments, Mandatories etc.;
- Record of Competencies;
- Training Records.
- Permits;
- Method statements;
- Risk assessments;
- Safe work procedures;
- Emergency and injury management;
- MSDSs;
- Medical surveillance records;
- Registers, and
- Records of audits, minutes etc.

#### **10.1 Supporting Documentation**



Contractor



Witness 1



Witness 2



Employer



Witness 1



Witness 2

The following list is not absolute, and the PC is expected to assess if further any further information should be submitted as supporting documentation, as it relates to the H&S plan. The inclusion of other, relevant documents is encouraged.

All documents as required by the Act and Regulations, including (but not limited to):

- Proof of registration with the Compensation Commissioner or FEMA;
- Proposed Organogram;
- Appointments under the Regulations;
- Examples of internal audits;
- Inspection registers of plant and equipment;
- Non-conformance system;
- Information relating to hazardous materials used and stored on site with MSDSs;
- All Method Statements, Hazard Identification and Risk Assessments for the project;
- All Health and Safety Plans for the project;
- Examples of minutes of all relevant meetings related to H&S;
- Registers for all plant and equipment
- Incident records, including investigations and results, and
- Medical certificates of fitness and medical surveillance programme.

The H&S File shall be closed out following the hand-over of the project. A list will be made available and the contents will be agreed to between the H&S Agent and the PC towards the end of the project.

## 11

### NON-COMFORMANCES

Should, at any time, the works, or part of the works, be stopped due to unsafe acts or non-compliance with the Clients or PCs H&S Plan; neither the PC nor any other Contractor shall have a claim for extension of time or any other compensation.

The following constitute examples of the types of non-conformances that will attract penalties:

Minor: Penalty: R50/count	Medium: Penalty: R500/count and a non-conformance	Severe Penalty: R5000/count, a non-conformance and/or activity stoppage
Non-use of PPE supplied	Toilets not supplied or regularly serviced; lack of drinking water	Contractors working without Health and Safety Plan approval
Non completion of registers for plant and equipment on site	Contractors not audited	Workers transported in contravention of the OHS plan or legal requirements
Lack of H&S signage at work areas	Working without training or the appropriate H&S method statements	Invalid Letters of Good Standing
Tools and equipment identified in poor condition during inspections	Legal non-conformances identified during the previous audit and not addressed within the agreed time frame	Non-compliance with traffic accommodation requirements: layout or physical conditions
Minor demeanours not addressed from previous H&S audit	No monthly OHS report at site meeting to report on	Fall protection harness not tied off / not worn
	No certificates of fitness for workers as required	Any breach of legal requirements
	Working without approved method statements	

**11.1 Failure to Comply with Provisions**

Failure or refusal on the part of the contractor to take the necessary steps to ensure the safety of workers and the general public in accordance with these specifications or as required by statutory authorities or ordered by the engineer, shall be sufficient cause for the engineer to apply penalties as follows:

- (i) A penalty as shown in the Table above shall be deducted for each and every occurrence of non-compliance with any of the requirements of the PSHSS.
- (ii) In addition a time-related penalty of R500,00 per hour over and above the fixed penalty shall be deducted for non-compliance to rectify any non-conformance within the allowable time after a site instruction to this effect has been given by the RE or Engineer. The site instruction shall state the agreed time, which shall be the time in hours for reinstatement of the defects. Should the Contractor fail to adhere to this instruction, the time-related penalty shall be applied from the time the instruction was given.

**12 MEASUREMENT AND PAYMENT**

The payment items for Occupational Health & Safety are contained in the preliminary and general section of the Bill of Quantities. The same rules are applicable in respect of the pricing of these items as for every other payment item. Attention is drawn to the Pricing Instructions in Part C2.1 of this document.

## ANNEXURE A

## RECORDS TO BE KEPT ON SITE

ITE M	CR	RECORD TO BE KEPT	RESPONSIBLE PERSON
1.	3(3)	Notification to Provincial Director – Annexure A Available on site	Principal Contractor
2.	4(3)	Copy of Principal Contractor's Health & Safety Plan Available on request	Client (Consultant)
3.	5(6)	Copy of Principal Contractor's Health & Safety Plan As well as each Contractor's Health & Safety Plan Available on request	Principal Contractor
4.	5(7)	Health & Safety File opened and kept on site (including all documentation required in respect of the OHSA & Regulations. Available on request	Principal Contractor
5.	5(8)	Consolidated Health & Safety File handed to Client on completion of Construction work. To include all documentation required by the OHSA & Regulations.	Principal Contractor
6.	5(9)	Comprehensive and Updated List of all Contractors on site, the agreements between the parties and the work being done. Included in Health & Safety file and available on request	Principal Contractor
7.	6(7)	Keep record on the Health & Safety File of the input by Construction Health and Safety Officer [CR 6 (6)] at design stage or on the Health & Safety Plan	Principal Contractor
8.	7(2)	Risk Assessments, kept up to date and available on site for inspection	Principal Contractor
9.	7(9)	Proof of Health & Safety Induction Training	Every Employee on site
10.	8(3)	Construction Supervisor [CR 6 (1)] has latest updated version of Fall Protection Plan [CR 8 (1)]	Principal Contractor
11.	9(2)(b)	Inform Principal Contractor in writing of dangers and hazards relating to construction work	Designer of Structure
12.	9(3)	All drawings pertaining to the design of structure On site available for inspection	Principal Contractor
13.	9(4)	Record of inspection of the structure [First 2 years – once every 6 months, thereafter yearly]	Owner of Structure
14.	9(5)	Maintenance records – safety of structure Available on request	Owner of Structure
15.	10(1)(d)	Drawings pertaining to the design of formwork/support work structure. Kept on site, available on request	Principal Contractor
16.	11(3)(h)	Record of excavation inspection On site available on request	Principal Contractor
17.	15(11)	Suspended Platform inspection and performance test records. Kept on site available on request	Principal Contractor
18.	17(8)(c)	Material Hoist daily inspection entered and signed in record book kept on the premises	Principal Contractor
19.	17(8)(d)	Maintenance records for Material Hoist Available on site	Principal Contractor
20.	18(9)	Records of Batch Plant maintenance and repairs On site available for inspection	Principal Contractor
21.	19(2)(g)(i i)	Issuing and collection of cartridges and nails or studs (Explosive Powered Tools) recorded in register – recipient signed for receipt as well as return	Principal Contractor
22.	21(1)(d)	Findings of daily inspections (prior to use) of Construction Vehicles and Mobile Plant	Principal Contractor
23.	22(d)	Record of temporary electrical installation inspections [once a week] and electrical machinery [daily before use] in a register and kept on site	Principal Contractor
24		Copies of all appointments made in regard to safety supervisors and inspectors	Principal Contractor
25		Record of safety inspections on equipment using radioactive materials.	Principal Contractor

## ANNEXURE B

### CLOSE OUT REQUIREMENTS

The H&S files for the Principal Contractors and all Contractors require closure and handover to the Client at the completion of the project. The following list is an example of what should be included, but is not exhaustive. The OHS Agent or the Client may require further information at the time of completion and the Principal Contractor is to ensure that all instructions are met. Documentation would include all records from the start of the project. Daily or monthly plant inspection records are not required unless they are related to an accident. All records to be in electronic format and submitted to the OHS agent for approval in adequately formatted lists and folders. Layout should be logical and in the same order as in the site files.

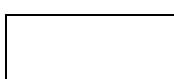
Health and Safety close out file requirements include:

- a) Client H&S Specification
- b) Principal Contractor's OHS Plan(s)
- c) Organograms
- d) Legal Appointments
- e) Notification to Department of Labour of commencement of work
- f) Letters of Good Standing for the Project
- g) Full files for all Contractors as well as their close out reports
  - List of Contractors
  - Letters of Approval of Contractors
  - Mandatory Agreements
  - Letters of Good Standing
  - Appointments
- h) Incident Records
- i) Non-Conformance records
- j) Agent's Audits
- k) Method Statements
- l) Risk assessments
- m) Safe work procedures
- n) Medical surveillance certificates of fitness. Medical records are to be kept according to the OH&S Act as amended.
- o) All drawings for temporary structures (suspended beams/scaffolds etc)
- p) Copies of test results, policies and procedures for environmental monitoring (silica, noise, dusts etc.)

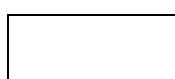
#### Defect and Liability Period

The H&S files are to be kept 'live' for the defect and liability period by the Principal Contractor, including those of their Contractors. Any work required during the defect and liability period will require an assessment of the H&S file by the OH&S Agent prior to any work commencing.

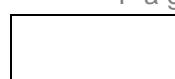
A copy of the as-built Drawings is to be placed on file by the Designers once complete.



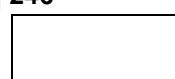
Contractor



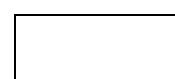
Witness 1



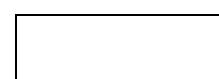
Witness 2



Employer



Witness 1



Witness 2

## ANNEXURE C

### NON CONFORMANCES

HEALTH AND SAFETY SITE INSPECTION NON CONFORMANCE NO		
<b>AGENT:</b>	<b>PROJECT:</b>	
<b>Consultant:</b>	<b>Date and time:</b>	
<b>Client:</b>	<b>Area:</b>	
<b>Contractor:</b>		
<b>ASPECTS NOTED:</b>	<b>COMMENTS:</b>	<b>COMPLETION REQUIRED BY (DATE):</b>
	•	
	•	
	•	
	•	
<b>PHOTOGRAPHIC EVIDENCE (if available):</b>		
1		2
3		4
<b>OTHER:</b>		
The following penalties are to be applied:		
<b>Signature of RE</b>		
<b>Signature of H&amp;S Officer/Site Agent</b>		
<b>Signature: of H&amp;S Agent</b>		

CLOSE OUT OF CONFORMANCE			
VERIFIED BY AGENT	COMMENTS ON WHAT WAS DONE (ATTACH PROOF IF AVAILABLE)	DATE COMPLETED	
PHOTOGRAPHIC EVIDENCE, OR LIST OF ANNEXURE TO PROVE CLOSURE			
SIGNATURE OF H&S OFFICER OR SITE AGENT			
SIGNATURE OF RE			

## EXAMPLE OCCUPATIONAL HEALTH AND SAFETY AUDIT DOCUMENT

<b>PROJECT NAME:</b>	
<b>CONTRACT NUMBER:</b>	
<b>HEALTH AND SAFETY AUDIT No:</b>	
<b>CONDUCTED BY :</b>	
<b>DATE :</b>	

DRAFT

## EXECUTIVE SUMMARY

### INTRODUCTION AND OVERVIEW

#### **SCORING:**

The audit has a scoring schedule, which will be used to deem compliance to what is available on site, and what the appropriate systems need to be to match them. The contractor should aim for a score of 3 on each aspect included in the audit. A low score could result in part or all of the work being stopped until compliance is reached.

<b>Scoring schedule</b>	
If the answer is " <b>No</b> " the rating will be 0	
If the answer is ' <b>not applicable</b> ' it will be noted as n/a	
If the answer is " <b>Yes</b> " the following ratings are applicable	
1	Requirements partially met and no implementation.
2	Requirements partially met and partially implemented
3	Requirements fully met and partially implemented
4	Requirements fully met and fully implemented
5	Requirements and implementation exceeds expectation

#### **Key Abbreviations:**

Health and Safety	H&S	Occupational Health and Safety Act	OHSA
Occupational Health	OH	Mine Health and Safety Act	MHSA
Construction Regulations	CRs	Driven Machinery Regulations	DMRs
General Safety Regulations	GSRs	Regulations for Hazardous Chemical Substances	RHCSs
Explosive Regulations	ERs	Pressure Equipment Regulations	PERs
Noise Induced Hearing Loss Regulations	NIHLs	Department Mineral and Energy	DMEs
Facilities Regulations	FRs	General Administration Regulations	GARs

Provide a summary of site inspection, significant findings of the site inspection and the audit

**CORE LEGAL RECORDS ON SITE:**

This list is not conclusive – to be updated monthly relative to works in progress. However the H&S Officer is to be pro-active and pre-empt requirements with the Construction Supervisor (Site Agent). The content will be linked to the physical conditions, processes and activities noted on site, or programme.

ITEM	Legal Ref	RECORDS TO BE KEPT	SCORE	COMMENTS	By whom	Completion Date	Contractor Close out
1.		Updated project H&S Organogram					
2.	OHSA S. 16 (1) and (2)	CEO and subordinate (if required) CVs on file					
3.	CR 6 (1) and (2)	Designation of Construction Supervisor(s) and Subordinate Person(s) CVs on file					
4.	OHSA S. 17; GAR 7	H&S Representatives appointed Monthly inspections completed Representation from Contractors					
5.	OHSA S. 18; GAR 5	H&S Committee appointed Minutes on file H&S representatives reports discussed Incidents discussed Signed by Chair/CEO Evidence of minutes noted					
6.	GAR 4	Copy of OH&S Act (Act 85 of 1993) Available on site					
7.	CR 4 (c), 5 (f)	Written proof of registration / <b>Letters of good standing</b> available on Site					
8.	OHSA S.37.2	<b>Copy of the Mandatory (S37.2) agreement between the PC and Client</b>					
9.	OHSA S.37.2	<b>Mandatory agreements</b> between PC and contractors					
10.	CR 3(3)	<b>Notification to Provincial Director – Annexure A</b> Available on site					
11.	CR 4(3) 5 (7)	Copy of Principal Contractor's Health & Safety Plan Available on request. Letter of approval from Agent. Health & Safety File opened and kept on site (including all documentation-required in respect of the OHSA & Regulations Available at all times					
ITEM	Legal Ref	RECORDS TO BE KEPT	SCORE	COMMENTS	By whom	Completion Date	Contractor Close out
12.	CR 5(6) (9)	<b>Copy of Principal Contractor's Health &amp; Safety Plan provided to Contractors</b>					

		Letters of approval for each contractor on file List of Contractors on site Verified monthly by Agent					
13	CRs	<b>Copies of technical method statements</b> approved by RE (GCC 12.3.1) Register available, signed by RE					
14	CR 7(2) OHSAS CR 7(4)	<b>Risk Assessments:</b> Up to date and available on site for inspection Review and monitoring programme adhered to Workers trained in risk assessments					
15	CR 7 (c)	<b>Safe work procedures</b> <b>Procedure</b> List of available SWPs Workers trained in SWPs Proof of training verified					
16	OHSAS S. 13 CR 7(9)	<b>Induction programme available</b> Proof of <b>induction</b> training available					
17	CR 8	<b>Fall Protection:</b> Appointment of Competent , CV on file Included in Risk Assessment Addressed in emergency plan Other: site inspection findings					
18	CR 9(2) (b) (3)	Structural information from Designer: <ul style="list-style-type: none"> <li>Geo-science technical report</li> <li>Design loading of the structure</li> <li>Methods &amp; sequence of construction</li> <li>Design risk assessment</li> <li>Added H&amp;S Specification</li> </ul>					
19	CR 10(1)(d)	<b>Supportwork and Formwork:</b> Competent person appointed: Design Erection, maintenance, use and dismantling CVs available Design drawings available on site Risk Assessment included Registers in line with supportwork and formwork noted in site inspection					
ITEM	Legal Ref	RECORDS TO BE KEPT	SCORE	COMMENTS	By whom	Completion Date	Contractor Close out
20	CR 11(3)(h)	<b>Excavations:</b> Competent persons appointed CVs available Depth of excavations on site Shoring in use Registers in line with open excavations noted at site inspection					
21	CR 11 (f) GSR 13A	<b>Ladders:</b> Competent person appointed					

		Registers kept Registers for ladders noted on site					
22	CR 17(8)(c) (d)	<b>Material Hoist</b> Competent person appointed CV on file Daily inspection register Maintenance records available					
23	CR 18(9)	<b>Batch Plant:</b> Appointment of Competent person Registers for maintenance, cleaning and repairs Risk Assessment carried out Batch Plant to be inspected weekly by a competent person. Inspections register kept <b>Other</b>					
24	CR 21	<b>Construction Vehicles:</b> Appointment of competent operators Plant Management: Registers on file noting daily inspections Plant and machine lists available Inadequacies noted on site Transportation of workers Registers for sample of vehicles noted on site					
25	CR 22	<b>Temporary Electrical Installations:</b> Appointment of competent person CV on file Services identified and protected Certificates of Compliance for installations Daily electrical machinery registers Weekly temporary electrical installation inspections Quarterly inspections					
ITEM	Legal Ref	RECORDS TO BE KEPT	SCORE	COMMENTS	By whom	Completion Date	Contractor Close out
26	DMR 18 CR 20	<b>Cranes and Lifting Equipment</b> Competent person appointed CV on file Cranes & Lifting tackle identified/numbered on Register Log Book kept for each individual Crane Inspection: - All cranes - daily by operator - Other cranes - annually by comp. person - Lifting tackle(slings/ropes/chain slings Etc.) - 3 monthly Risk Assessment carried out Driven Machinery compliance re excavators and TLBs being used					

		Other					
27	CR 25, 26 ER 6 GSR 8	<b>Housekeeping, Stacking &amp; Storage Supervisor:</b> Appointed per work area CVs Available Include site conditions Spoil areas Register available per area					
28	GSR 2	<b>PPE:</b> included in Risk Assessment PPE used and enforced Records of Issue kept Training to use (Induction) Registers for condition checks					
29	GSR 9 HCSRs	<b>Welding/Flame Cutting Equipment</b> Competent Person(s) appointed CVs available Equipment identified/numbered and entered into a register Equipment inspected monthly. Types of welding on site (List)					
30	RHCSs CR 7; 23 GSR 4	<b>Hazardous Chemical Use and Storage</b> Competent Person/s appointed CVs available Risk Assessments include use of HCSs Register of HCS kept/used on Site Flammable Store Bulk diesel storage Material Safety Data Sheets on file and utilised Other					
ITEM	Legal Ref	RECORDS TO BE KEPT	SCORE	COMMENTS	By whom	Completion Date	Contractor Close out
31	PER	<b>Pressure Equipment (PEs):</b> Competent Person/s (AIA) CV and AIA letter Risk Assessments include PEs Register of PE's on Site Inspections & Testing by AIA: - after installation/re-erection or repairs - Every 12 - 36 months. - Register/Log kept of inspections, tests. Modifications & repair - Jacking requirements met <b>Inspection Registers</b>					
32	GSR 3	<b>Emergency management:</b> First aiders available through project Level 3 First aid boxes through site Evacuation procedures					

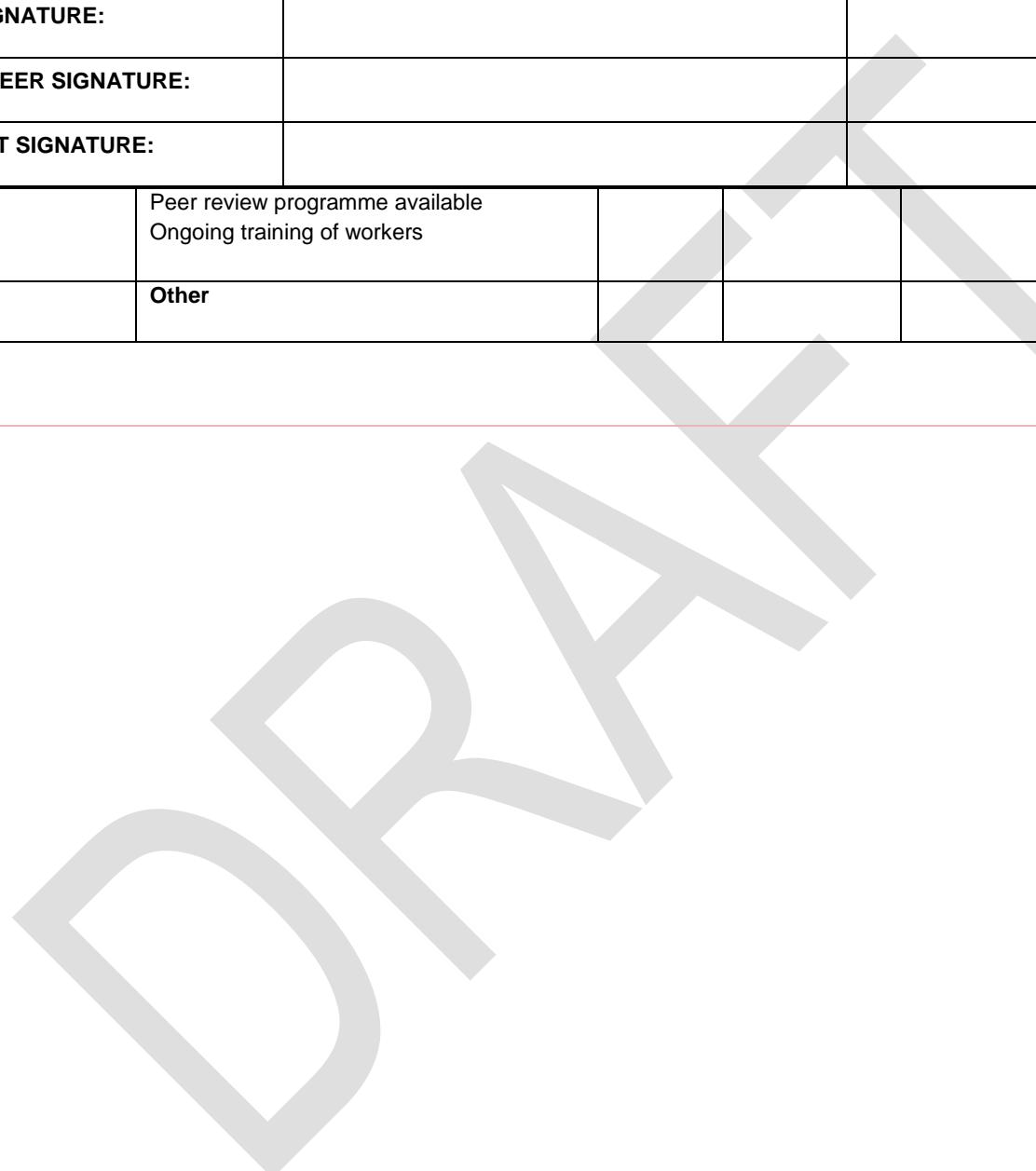
		Registers available (noted on site)					
33	GAR	<b>Incident Management:</b> Emergency co-ordinator appointed and CV available Emergency plan appropriate Emergency level included in Risk Assessments Workers trained Incident reports available and complete					
34	DMR 2	<b>Revolving Machinery</b> Exposed revolving parts to be countersunk, enclosed or guarded Projecting shaft or spindle end be guarded by a cap or shroud					
35		<b>Stop/start controls</b> Controls appropriate <b>Emergency stops/system</b>					
36	CRs RHCSs  GSR 2(a) MHSAs	Medical Surveillance Programme Pre-placement Periodic Exit Workers at height Plant operators Random drug testing <b>DME Annual Medical report</b>					
ITEM	Legal Ref	RECORDS TO BE KEPT	SCORE	COMMENTS	By whom	Completion Date	Contractor Close out
37	NIHLRs MHSAs/ EnvR  RHCSs	<b>Environmental Monitoring:</b> Noise levels Dust monitoring Lighting and Ventilation Temperature Silica Monitoring Report submitted to DoL					
38	CR 21 /	<b>Traffic accommodation</b> Competent persons appointed Traffic layouts for site camp indicating routes, direction and pedestrian access etc. Inspection Registers kept Changes and registers signed by RE Other					
39	CR / FRs	<b>Welfare Facilities:</b> Toilets available where crews are working/clean Clean potable water available Adequate eating facilities					
40	CR 28 FacRs	<b>General housekeeping, stacking and storage</b>					
41		HIV AND AIDS PROGRAMME HIV and AIDS Policy and plan available Condoms available					

## RESPONSIBILITY

## SIGNATURE

## Date:

OHS AGENT SIGNATURE:			
PC SIGNATURE:			
ENGINEER SIGNATURE:			
CLIENT SIGNATURE:			
		Peer review programme available Ongoing training of workers	
42		Other	



## PART C4: SITE INFORMATION

### C 4.1 Scope

The documentation included in this section describes the site as at the time of tendering to enable the tenderer to price his tender and to decide upon his method of working and programming.

Only actual information about physical conditions on the site and its surroundings have been included in this section and interpretation is a matter for the tenderers.

### C 4.2 Borrowpit Investigations.

Geotechnical report

### C 4.3 Subsoil Investigations, Borehole Records and Test Results.

Geotechnical report

### C 4.4 Reports obtained by the Employer concerning the physical conditions within the site or its surroundings, including mapping, hydro-graphic data and hydrological information.

Nil

### C 4.5 References to publicly available information about the site and its surroundings such as published papers and interpretations of the geotechnical investigation.

Nil

### C 4.6 Information about piped and other services below the surface of the site for contracts involving ground works and about hook-up and boundary details for contracts with plant interfaces, in addition to anything about the physical site which impacts upon the contract.

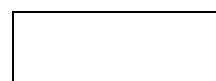
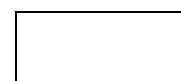
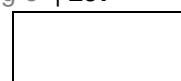
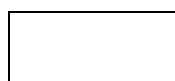
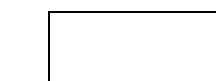
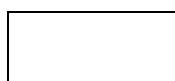
Nil

### C 4.7 Information about adjacent buildings and structures and about existing buildings and structures on the site (Restrictions for heavy loads etc.).

Nil

### C 4.8 Atmospheric and Environmental Criteria

Nil



### C3.5 MANAGEMENT

#### C3.5.1 MANAGEMENT OF THE WORKS

##### C3.5.1.1 Applicable standards

The following documents and standards and associated specification data are applicable and form part of the Contract:

- i) **Volume 1:** The General Conditions of Contract (2015) 3<sup>rd</sup> Edition, issued by SAICE, which the tenderer must purchase
- ii) **Volume 2:** COLTO 1998
- iii) **Volume 3:** This document. iv) **Volume 4:** Book of Drawings issued as Volume 4.
- v) Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP).
- vi) Health and Safety Specification (may be bound in at the back of Volume 3 or issued as a separate volume).

##### C3.5.1.2 Planning and programming

The extent of the works contained in the Bill of Quantities is aimed at upgrading certain of the district road network over the contract period. However, should the tender amount exceed the Employer's budget, or should the Employer's annual budget be reduced during the course of the contract, the Employer reserves the right to reduce the scope of the works to suit the available budget.

The time for completion of this Contract is as stated in the Contract Data.

The Engineer will determine the extent of the work to be executed in terms of the contract. A preliminary overall maintenance plan indicating the anticipated maintenance activities over the month period, based upon an initial needs analysis and current budgets.

The Contractor should also note that, during the contract period, other contracts may be running on the section of road requiring maintenance.

The Contractor should take cognisance of this for his programme and will be required to fully accommodate these contractors. No additional payment will be made for any inconvenience in this regard.

The Contractor shall submit his programme within the time stated in the Contract Data to the Engineer in bar chart form showing clearly, in addition to the requirements of Clause 15 of the General Conditions of Contract, the following:

- ◆ The various stages of work planned to be completed per month to suite the overall programme.
- ◆ Critical path activities
- ◆ Anticipated value of work to be done during each month.
- ◆ His labour resources schedule which must distinguish between the Contractor's permanent labour and his temporary local labour employment. ◆ The lead time for training local labour if required.

When drawing up his programme, the Contractor shall also, *inter alia*, take into consideration and make allowance for:

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- ◆ Expected weather conditions and their effects (e.g. for grading work).
- ◆ The requirements and effects of employing labour intensive construction methods.
- ◆ The accommodation and safeguarding of public access and traffic.
- ◆ Presence of other contractors on site.
- ◆ All other actions required in terms of this document.

The Engineer will agree on a general programme of work per route section with the Contractor and any changes to this programme will be finalised with the Contractor at least one month in advance. Once the programmes have been finalised a detailed monthly programme will be drawn up which will be used to monitor performance. When drawing up his construction programme, the Contractor shall take into account the time for completion for the activity as indicated in the Preliminary Programme. The Contractor will be required to pay special attention to the preceding table and project drawings, which represent a guideline programme for the execution of the maintenance works.

Once the monthly programme has been approved by the Engineer, the Contractor will be notified of the work that he is to undertake for the month by means of a Works Instruction from the Engineer.

Failure on the part of the Contractor to submit or to work according to the programme or revised programmes shall be sufficient reason for the Engineer to take steps as set out in Clause 43 of the General Conditions of Contract.

Certain maintenance activities may be restricted on certain roads on days with increased traffic flows. The Contractor must allow for these restrictions in his monthly programme and no extension of time or claims in this regard will be considered. For this contract, the days with restrictions are indicated in the table overleaf:

DATE	ACTIVITY TO BE RESTRICTED	PERIOD OF RESTRICTION
Weekends	All routine road maintenance activities which may disrupt the normal flow of traffic.	From 16h00 on Friday till 07h00 on Monday
School closure		For 2 days before closing
School opening		For 2 days before opening
Long weekends		From 12h00 on day preceding, for duration
December holidays		Duration of holidays (taken as 15/12 – 08/01 )

The Contractor will only be allowed to undertake work on the affected roads during these periods with the approval of the Engineer.

Should the Contractor fall behind his monthly programme he shall produce a revised programme showing the modifications to the original programme necessary to ensure completion of the Works, or any part thereof, within the time for completion as defined or any extended time granted.

Failure to produce a revised programme may prejudice the Contractor in any claim for an extension of time.

### C3.5.1.3 Sequence of the works

The Engineer will agree on a general programme of work per route section with the Contractor and any changes to this programme will be finalised with the Contractor at least one month in advance. Once the annual programmes have been finalised a detailed monthly programme will be drawn up which will be used to monitor performance. When drawing up his construction programme, the Contractor shall take into account the time for completion for the activity as indicated in the Preliminary Programme. The Contractor will be required to pay special attention to the preceding table and project drawings, which represent a guideline programme for the execution of the maintenance works.

Once the monthly programme has been approved by the Engineer, the Contractor will be notified of the work that he is to undertake for the month (or emergency works, as they occur) by means of a Works Instruction from the Engineer.

Failure on the part of the Contractor to submit or to work according to the programme or revised programmes shall be sufficient reason for the Engineer to take steps as set out in Clause 55 of the General Conditions of Contract.

### C3.5.1.4 Computer equipment and software

An allowance has been made for computer equipment and telecommunication software for the Engineer.

### C3.5.1.5 Methods and procedures

All work to be carried out will be in compliance with the following minimum requirements

- The Routine Road Maintenance Procedures Manual as issued by the Department Roads and Public Works of the Eastern Cape (Version 1, February 2002)
- gravelling and Road Betterment Procedures Manual ( Version : 3–Feb 2005 )
- The OHS Act
- Environmental Management Plans
- Departmental Details drawings
- SABS 1200

### C3.5.1.6 Materials and fence Condition Reports

#### Control Testing of Earthworks and Road Layers

agrees

The Contractor is required to carry out his own control testing, but if he so wishes, and

to abide by the results of the Engineer's check test, he may dispense with his own tests. However, should the Contractor wish to use the Engineer's testing facilities, he will be charged for the various tests at the rates ruling at the time. The contractor must give reasonable notification to the Engineer of dates and time that tests will be undertaken as no test results will be admissible should they be done in the absence of the Engineer.

Any additional tests requested by the Contractor or any retests required, due to failure of the initial tests, will be charged to the Contractor at the rates ruling at the time.

**Process Control Testing**

The Contractor is required to carry out his own control testing. The results of these control tests together with the location of the tests shall be submitted to the Engineer for approval. No payments will be made without this information, unless partial payment is allowed for special items in terms of the project specification.

**Acceptance Control Testing**

The Engineer may order that additional tests be carried out from time to time. A provisional sum is allowed for these additional tests. The cost of any additional tests that might fail, together with the remedial work ordered by the Engineer, will be for the account of the Contractor.

**C3.5.1.7 Environment**

The Contractor will prior to the commencement of any construction or repair work prepare and submit an Environmental Management Plan (EMP), for approval by the Engineer. The EMP shall clearly demonstrate how the Contractor intends mitigating damage to the environment, as a result of their construction activities.

The Contractor shall further appoint an Environmental Control Officer (ECO), who shall inspect all construction related activities and who shall report on non-compliance items. Further, the ECO will submit his/her Environmental Audits at monthly site meetings, for discussion by all role players.

a) **Sand and dust control**

The Contractor shall, for the duration of the contract, take appropriate measures to control the dust and soil movement which may arise due to his operations.

b) **Environmental Management**

The Contractor should appoint an External Environmental Auditor who will be required to compile a comprehensive Environmental Management Programme (EMPR), which should address the management and monitoring of environmental impacts related to this repair contract.

The EMPR should therefore identify potential environmental impacts and should further demonstrate how these would be mitigated and controlled.

The Contractor shall be responsible for implementing and managing an Environmental Management Programme in terms of the particular specifications for the borrow pits. The Contractor's authorised agent shall report to the Engineer regarding compliance with the conditions as stipulated in the Environmental Management Programme.

The Contractor shall take the utmost care to minimise the impact of his establishment and other construction activities on the environment and shall adhere to the requirements as set out in Section 9300 of the Project Specifications. Where, in the opinion of the Engineer, the Contractor has not



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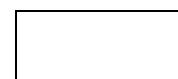
Witness 1



Witness 2



Employer



Witness 1



Witness 2

adhered to these requirements, the Contractor shall rectify the damage at his expense and to the satisfaction of the Engineer.

Trees and shrubs established in the landscaped areas of the road reserve may under no circumstances be disturbed without specific instruction from the Engineer for their removal.

Trees and shrubs inadvertently destroyed by the Contractor shall be replaced with the equivalent at the Contractor's expense.

The containers used for storage shall be free of leaks and placed on a firm surface. Unused or rejected products shall be removed from site and returned to the supplier. Solvents used for flushing spray tankers shall be treated likewise.

No separate payment items will be scheduled for the compliance by the Contractor with the EMPR. These costs will be deemed to be inclusive of the rates tender for the works.

Trees and shrubs established in the landscaped areas of the road reserve may under no circumstances be disturbed without specific instruction from the Engineer for their removal. Trees and shrubs inadvertently destroyed by the Contractor shall be replaced with the equivalent at the Contractor's expense.

Disposal of any bituminous-based material shall only be at an approved location and by means of an approved method, arranged beforehand with the Engineer.

Storage sites for all bituminous products in the road reserve, or on private property, are to be approved by the Engineer prior to use. The containers used for storage shall be free of leaks and placed on a firm surface. No spoiling of any bituminous products shall be allowed in these areas. Unused or rejected products shall be removed from site and returned to the supplier. Solvents used for flushing spray tankers shall be treated likewise.

No separate payment items will be scheduled for the compliance by the Contractor with the EMP. These costs will be deemed to be inclusive of the rates tender for the works.

#### **C3.5.1.8 Accommodation of traffic on public roads occupied by the contractor**

The Works will be undertaken in a manner that will minimise the interference with public traffic, consistent with established routine road maintenance practices. Although inconvenience to road users will be inevitable, the Contractor must ensure that road users have continuous access on and to, a public road.

Temporary road traffic signs shall at all times be displayed at the works as specified on the drawings and in accordance with the requirements of this document, as well as the South African Road Traffic Signs Manual, in conjunction with Manual K56 "Safety at Roadworks in Rural Areas", and the Routine Road Maintenance Procedures Manual of the Department of Transport and Roads of the Eastern Cape. The Contractor may not commence constructional activities before adequate provision has been made to accommodate traffic in accordance with the above requirements.

The traffic signs shall be covered or removed when not required at night and over weekends. No diversions are generally required and the Contractor shall regulate the

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traffic with flagmen and take all precautions necessary to promote the safe and easy flow of traffic on or next to the roadway under repair.

The Contractor, if so instructed in writing, shall nevertheless provide a diversion at places with a high traffic safety risk. Except where otherwise specified, additional payment over and above payment under the payment items included in the Contract, will be made for the construction of the diversion and the additional measures required to control traffic as specified by the Engineer.

Should the Contractor neglect to apply the road traffic safety measures specified without due diligence, the Engineer may temporarily stop the works until the Contractor has rectified the situation or impose a penalty for each contravention of the requirements of the Specifications as detailed in Section 1500.

The Contractor will be responsible for the accommodation of traffic on, and maintenance of the existing roadways used by the public as instructed by the Engineer, from the date of site handover, to the issuing of the Certificate of Completion for the works as a whole.

No separate payment items have been scheduled for the accommodation of traffic or traffic signage and all these costs will be deemed to have been included in the relevant payment items of the appropriate works.

The Contractor must ensure that a competent person, that can act as a Traffic Safety Officer, is present on site at all times to deal with all issues relating to traffic accommodation. This person will, at all times, be responsible for the construction, spacing, placement and maintenance of traffic control devices.

#### **C3.5.1.9 Other Contractors on site**

When drawing up his programme, the Contractor shall also, *inter alia*, take into consideration and make allowance for the presence of other contractors on site

#### **C3.5.1.10 Recording of weather**

The Contractor will be responsible for recording and maintaining a daily log of weather conditions throughout the duration of the contract. During the execution of the Works, The Engineer's Representative will certify a day lost due to abnormal rainfall and adverse weather conditions only if less than 30% of the work force and plant on site could work during that specific working day.

#### **C3.5.1.11 Format of communications**

The Contractor will keep on site at all times a Site Instruction Book in which the Engineer's Representative will issue any Site Instructions for variations of the Work. All correspondence will be written, signed, copied to the Employer and Contractor. The Engineer will maintain a file of all original correspondence.

The Contractor shall furnish the Engineer daily with records, as per the Employers Web Based Reporting System of work executed by him for each activity. The records shall include information such as description, location, measurement, plant and labour hours,

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where applicable, and all other information the Engineer may require for the record and measurement purposes.

*Reports to be submitted to the engineer timeously, non-compliance may result in payment not being made*

#### **C3.5.1.12 Key personnel**

A Schedule of Key Personnel is included in Volume 3 of the Contract document.

#### **C3.5.1.18 Construction Regulations, 2003**

The Contractor shall be required to comply with the Occupational Health and Safety Act, 1993:

Construction Regulations, 2003 (the regulations) as promulgated in Government Gazette No 25207 and Regulation Gazette No 7721 of 18 July 2003. Non-compliance with these regulations, in any way whatsoever, will be adequate reason for suspending the Works.

The proposed type of work, materials to be used and potential hazards likely to be encountered on this Contract are detailed in the Scope of Works, the Bill of Quantities, the Drawings, and in the Employers' Health and Safety specification (regulation 4(1) of the Construction Regulations 2003), which is bound into the Contract document.

The Contractor shall, in terms of regulation 5(1), provide a comprehensive Health and Safety Plan detailing his proposed compliance with the regulations, for approval by the Employer.

The Contractor shall at all times be responsible for full compliance with the approved plan as well as with the Construction Regulations and no extension of time will be considered for delays due to non-compliance with the abovementioned plan or regulations.

Payment items are included in the Schedule of Quantities to cover the Contractor's cost for compliance with the OHS Act and the abovementioned Regulations.

#### **C3.5.1.19 HANDING OVER SITE, SETTING OUT AND CONFIRMING THE SCOPE OF WORKS WITH THE CONTRACTOR**

The Engineer, the Contractor and supervisory staff shall together carry out a joint inspection at the time of the handing over of the site. During such an inspection the scope of the works will be set out for each of the roads / road sections indicating the various activities to be conducted, as well as making notes of all damaged fences, guardrails, signs and any other notable problems or features that exist.

The following matters are to be confirmed at the time of handing over and before the commencement of any work:

- i. Confirming position of the site camp and\or any additional temporary site camps that may be required.
- ii. (ii) The construction limits, lengths, widths and areas of routine maintenance or construction to be conducted for the various sections of road.

- iii. The location of reference beacons to be used for setting out purposes.
- iv. Supervisory, test control measures and procedures are to be confirmed.
- v. The position of all the existing services must be identified

#### **TRIAL SECTION**

Before the Contractor commences with the construction/maintenance works, he shall demonstrate on a test section (for each type of maintenance activity) that the equipment and processes he intends to use, will enable him to execute the Works in accordance with the specified requirements. The trial sections for the various maintenance activities shall also serve as a basis to agree the interpretation of the Specifications for application during the Contract Period and the criteria and methods to be used by the Engineer for acceptance control.

Only when the trial sections have been satisfactorily completed in conformity with the specified requirements, will the Contractor be allowed to commence the maintenance/repair works. The Engineer shall, as far as is practical, select the location of the trial section at a position with characteristics which are representative of the general conditions to be found with the balance of the proposed works. The Engineer may require the construction of additional trial sections should the materials available or methods of construction significantly change during the course of the Contract.

No additional payment will be made for the demonstration at the trial section, other than for the work completed and accepted as part of the Works, at tender rates.

#### **C3.5.1.20 COMPLETION TIME OF SPECIFIED ACTIVITIES AND PENALTIES**

Due to the nature of maintenance work, certain items of work shall be carried out as a matter of routine and others as emergency cases. The Contractor will be called upon to do remedial work at very short notice in some instances, in which case the Contractor shall proceed to carry out the work without delay and report to the Engineer in writing as soon as practically possible the extent of the work carried out.

It is a condition of the contract that certain specified activities must either be completed within a specified period or responded to within a specified time if they have been classified as emergency repairs by the Engineer. All other construction or maintenance activities will be classified as routine, and conducted as per the programme and works instructions.

##### Completion time for an activity:

Completion time is defined as that period from the date on which an instruction is received by the Contractor from the Engineer, to the date of full completion of the specific activity. The completion times are as indicated in the attached programme.

##### Responding time:

Responding time is defined as that period of time on which an instruction is received by the Contractor from the Engineer, to the time of reporting at an indicated place, by the designated team.

Emergency response and completion times:

### 3.5.2 EMPOWERMENT PRINCIPLES

#### 3.5.2.1 Labour Intensive Construction Methods

Labour intensive construction methods based on the Expanded Public Works Programme (EPWP) will be utilised where practically possible and feasible. Construction activities that are undertaken using labour intensive methods shall be based on the prevailing statutory minimum wage as determined by the Department of Labour.

Emergency Activity	Completion Time	Responding Time	Penalty for late responding	Penalty for late completion	Penalty for not meeting specification
Repairs on fence	As specified by Engineer	1 day	R500/day	R250/day	R1000/occur

#### 3.5.2.2 Local Labour

Should personnel and labour, in addition to that provided by the Contractor, be required, the Contractor must endeavour to employ labourers, artisans and subcontractors from the community within the Local Municipal Area for the execution and completion of the work.

The Contractor and his sub-contractors shall ensure that they enter into a Contract of Employment with each employee engaged on the labour intensive aspects of this Contract.