## **CONTRACT**

C1: AGREEMENTS AND CONTRACT DATA

**C2: PRICING DATA** 

**C3: SCOPE OF WORK** 

**C4: SITE INFORMATION** 

## **CONTRACT**

TABLE OF CONTENTS	Page	Colour
C1: AGREEMENTS AND CONTRACT DATA		
C1.1: FORM OF OFFER AND ACCEPTANCE	C3	Yellow
C1.2: CONTRACT DATA	C7	Yellow
C1.2.1: CONDITIONS OF CONTRACT	C8	Yellow
C1.2.2: PART A: DATA PROVIDED BY THE EMPLOYER	C11	Yellow
PART B: DATA PROVIDED BY THE CONTRACTOR	C16	Yellow
C1.3: PERFORMANCE GUARANTEE	C17	White
C1.4: AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT No 85 OF 1993	C20	White
C1.5: RETENTION MONEY GUARANTEE	C22	White
C1.6: TRANSFER OF RIGHTS	C24	White
C2: PRICING DATA		
C2.1: INSTRUCTIONS	C25	Yellow
C2.2: SCHEDULE OF QUANTITIES	C30	Yellow
C3: SCOPE OF WORK		
TABLE OF CONTENTS	C79	Blue
C3.1: STANDARD SPECIFICATIONS	C67	Blue
C3.2: PROJECT SPECIFICATIONS	C67	Blue
C3.3: PARTICULAR SPECIFICATIONS	C77	Blue
C4: SITE INFORMATION		
C4.1: LOCALITY PLAN	C177	Green
C4.2: EXAMPLE OF CONTRACT SIGNBOARD DETAILS	C178	Green
C4.3: EXISTING SERVICES REPORT	C180	Green
C4.4 TRAFFIC INFORMATION	C181	Green
C4.5 BASELINE RISK ASSESSMENT	C186	Green
C4.6 ANY OTHER RELEVANT TECHNICAL REPORT	C187	Green

## C1: AGREEMENTS AND CONTRACT DATA

## C1.1 FORM OF OFFER AND ACCEPTANCE

## A. OFFER

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

CONTRACT NO. ZNB00771-00000-00-PMR-INF-21-T: THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

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

By the representative of the 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 Contractor under the Contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the Conditions of Contract identified in the Contract Data.

The offered total of the prices inclusive of Value Added Tax is:

Amount in Words
R(in figures)
This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the Tender Data, whereupon the Tenderer becomes the party named as the Contractor in the Conditions of Contract identified in the Contract Data.
Signature: (of person authorised to sign the Tender):
Name: (of signatory in capitals):
Capacity: (of Signatory):
Name of Tenderer: (organisation):
Address:
Telephone number: Fax number:
Witness:
Signature:
Name: (in capitals):
Date:
[Failure of a Tenderer to sign this form will invalidate the Tender]

# This form is to be completed by the Employer only

CONTRACT No.: ZNB00771-00000-00-PMR-INF-21-T

## **B. ACCEPTANCE**

By signing this part of the 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 1 Agreements and Contract Data (which includes this Agreement)

Part 2 Pricing Data, including the Schedule of Quantities

Part 3 Scope of Work

Part 4 Site Information

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

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

The Tenderer shall deliver the Guarantee in terms of Clause 6.2.1 of the General Conditions of Contract Third Edition (2015) within the period stated in the Contract Data, and he shall, immediately 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 other bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data, within 14 days of the date on which this Agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

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

Signature		
Name: (in	capitals)	
Capacity:		
Name of E	mployer (organisation)	
	Signature: Name:	
Date:		

# This form is to be completed by the Employer and the successful Service Provider only, upon acceptance of the successful Service Provider's offer

## **C SCHEDULE OF DEVIATIONS**

## Notes:

- 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 Tender Data and the Conditions of Tender.
- A Tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreement reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.
- Any other matter arising from the process of offer and acceptance either as a confirmation, clarification
  or change to the Tender documents and which it is agreed by the Parties becomes an obligation of
  the contract shall also be recorded here.
- Any change or addition to the Tender documents arising from the above agreement 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:	
5	Subject:	
	Details:	
6	Subject:	
	Details:	
7	Subject:	
	Details:	

**FOR THE TENDERER:** 

CONTRACT No.: ZNB00771-00000-00-PMR-INF-21-T

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

Signature:	
Name:	
Capacity:	
Tenderer: (/	Name and address of organisation)
Witness:	
Signature:	
Name:	
Date:	
FOR THE E	MPLOYER:
Signature	
Name:	
Capacity:	
Employer:	(Name and address of organisation)
Witness:	
Signature:	
Name:	
Date:	

## C1.2: CONTRACT DATA

## **C1.2.1: CONDITIONS OF CONTRACT**

TABLE OF CONTENTS	PAGE NO.
C1.2.1.1 GENERAL CONDITIONS OF CONTRACT	C8
C1.2.1.2 SPECIAL CONDITIONS OF CONTRACT	C8
C1.2.1.2.1 GENERAL	C8
C1.2.1.2.2 AMENDMENTS TO THE GCC 2015	C8

## C1.2.1 CONDITIONS OF CONTRACT

## C1.2.1.1 GENERAL CONDITIONS OF CONTRACT

This Contract will be based on the "General Conditions of Contract for Construction Works, Third Edition, 2015", issued by the South African Institution of Civil Engineering (abbreviated title: "GCC 2015").

CONTRACT No.: ZNB00771-00000-00-PMR-INF-21-T

It is agreed that the only variations from the GCC 2015 are those set out hereafter under "C1.2.1.2 SPECIAL CONDITIONS OF CONTRACT".

## C1.2.1.2 SPECIAL CONDITIONS OF CONTRACT

## C1.2.1.2.1 GENERAL

These Special Conditions of Contract (SCC) form an integral part of the Contract. The Special Conditions of Contract shall amplify, modify or supersede, as the case may be, the GCC 2015 to the extent specified below, and shall take precedence and shall govern.

The clauses of the Special Conditions of Contract hereafter are numbered "SCC" followed in each case by the number of the applicable clause or subclause in the GCC 2015, and the applicable heading, or (where a new special condition that has no relation to the existing clauses is introduced) by a number that follows after the last clause number in the GCC 2015, and an appropriate heading.

## C1.2.1.2.2 AMENDMENTS TO THE GCC 2015

## **SCC 1.1 Definitions**

Add the following to the end of Clause 1.1:

"SCC 1.1.1.35 "Targeted Enterprise" means an enterprise as defined in Part G: Small Contractor Development of section C3.3 Particular Specifications in Part C3: Scope of Works."

## SCC 4.1.1 Extent of Contractor's obligations

Add the following new paragraphs to the end of Clause 4.1.1:

"If the Contractor fails to achieve the monetary value of the target set by the Employer for local labour content in terms of Part E: Requirements of the Expanded Public Works Programme (EPWP) of section C3.3 Particular Specifications in Part C3: Scope of Works, the Contractor shall be liable to the Employer for a sum calculated in accordance with the Contract Data and the aforementioned Scope of Works as a penalty for such underachievement.

If the Contractor fails to achieve the monetary value of the target set by the Employer for contract participation by Targeted Enterprises in terms of Part G: Small Contractor Development of section C3.3 Particular Specifications in Part C3: Scope of Works, the Contractor shall be liable to the Employer for a sum calculated in accordance with the Contract Data and the aforementioned Scope of Works as a penalty for such underachievement."

## SCC 6.2 Security

## SCC 6.2.1 Delivery of security

In the last two lines of Clause 6.2.1, delete the words "the type of security for the due performance of the Contract, as selected in the Contract Data" and replace them with the words "a fixed performance guarantee as security for the due performance of the Contract in accordance with the Contract Data Part A: Data Provided by the Employer".

Delete the entirety of Clause 6.2.2 and replace it with the following:

## "SCC 6.2.2 Contractor failing to provide security

If the Contractor fails to provide the required fixed performance guarantee within the time period stipulated in the Contract Data, or if the performance guarantee shall differ substantially from the pro forma, it shall legally be deemed that the Contractor has selected a security of ten per cent retention of the value of the Works without limiting the Employer's right to terminate the Contract in terms of Clause 9.2."

## SCC 6.2.3 Validity of performance guarantee

Delete the entirety of the first sentence of Clause 6.2.3 and replace it with the following:

"The Contractor shall ensure that the performance guarantee remains valid and enforceable until the Certificate of Completion is issued."

## SCC 6.8.2 Application of the Contract Price Adjustment Factor

Add the following to the end of Clause 6.8.2:

"Referring to Clause 1 of the "CONTRACT PRICE ADJUSTMENT SCHEDULE" on page 86 of the GCC 2015, delete the paragraph describing the symbols "L", "P", "M" and "F", and replace it with the following:

"L", "P", "M" and "F" are defined as follows:

"L" is the "Labour Index" and shall be the Consumer Price Index for the province as stated in the Contract Data as published in Table A of the Statistical release P0141 of Statistics South Africa.

"P" is the "Contractor's Equipment Index" and shall be the Producer Price Index for "Civil engineering plant" as published in Table 4 of the Statistical release P0151 of Statistics South Africa.

"M" is the "Materials Index" and shall be the Producer Price Index for the "Building and construction - Civil engineering" industry as published in Table 3 of the Statistical release P0151 of Statistics South Africa.

"F" is the "Fuel Index" and shall be the Producer Price Index for "Diesel fuel wholesale - Total" as published in Table 4 of the Statistical release P0151 of Statistics South Africa."

## **Additional Special Conditions of Contract**

The following additional Special Conditions of Contract clauses SCC 1.1 and SCC 5.3 shall apply only in those circumstances where the Employer is required to apply for a construction work permit in terms of Construction Regulation 3(1):

## **SCC 1.1 Definitions**

## SCC 5.3 Commencement of the Works

Delete the entirety of Clauses 5.3.1, 5.3.2 and 5.3.3 and replace them with the following:

## "SCC 5.3.1 Commencement of the Works

Upon the Employer's Agent's instruction, the Contractor shall, save as may be otherwise provided in the Contract, or be legally or physically impossible, commence carrying out the Works. Such instruction shall be provided not later than 14 days after the Commencement Date. Such instruction shall be subject to:

- CONTRACT No.: ZNB00771-00000-00-PMR-INF-21-T
- SCC 5.3.1.1 The timely submission by the Contractor, and approval by the Employer's Agent, of documentation required before commencing to carry out the Works and before the Employer applying for a permit to do construction work, as set out in the Contract Data,
- SCC 5.3.1.2 Application by the Employer for a permit to do construction work in terms of Regulations 3(1) and (2) of the Construction Regulations 2014, and
- SCC 5.3.1.3 Receipt by the Employer of the permit to do construction work.

## SCC 5.3.2 Unacceptable documentation

If the documentation referred to in Clause SCC 5.3.1 is not submitted within the number of days stipulated in the Contract Data from the date that the Agreement, made in terms of the Form of Offer and Acceptance, comes into effect, or if such documentation is found to be unacceptable, the Employer may terminate the Contract in terms of Clause 9.2.

## SCC 5.3.3 Time to instruct commencement of the Works

Where the Contractor delays the submission by the Employer of the application for a permit to do construction work and such permit is not received within 14 days following the Commencement Date such that the Employer's Agent's instruction to commence carrying out the Works cannot be given, without prejudice to the Employer's rights to terminate the contract under Clause 9.2, the Employer's Agent shall delay issuing the instruction to commence carrying out the Works until such time as the permit to do construction work has been received. The Contractor shall have no entitlement under Clause 5.12 to an extension of time for Practical Completion.

Where the permit to do construction work is not received within the 14 day period following Commencement of the Contract for reasons not attributable to the Contractor, the Employer's Agent shall delay the instruction to commence the Works and the Contractor shall be entitled to make a claim in accordance with Clause 10.1."

## 6.10 Payments

## SCC 6.10.4 Delivery, dissatisfaction with and payment of payment certificate

In the first three lines of Clause 6.10.4, delete the word "days" and replace them with the words "working days".

## C1.2.2: CONTRACT DATA (Applicable to this contract)

## PART A: DATA PROVIDED BY THE EMPLOYER

The following contract specific data are applicable to this contract.

REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER		
1.	GENERAL		
Clause 1.1.1.14:	The time for achieving Practical Completion is 24 months from the Commencement Date, including non-working days and special non-working days.		
Clause 1.1.1.26:	Pricing Strategy: The Contract is to b	e a Re-measurement Contract.	
Clause 1.1.1.15:	Name of Employer: Province of KwaZulu-Natal represented by Head of Department: Department of Transport represented by  Mrs. Adriana Lazarova		
Clause 1.2.1.2:	Address of Employer:		
	Physical:	Postal:	
	1 Woodlands Road Pietermaritzburg 3201	Private Bag X 9003 Pietermaritzburg 3200	
	E-mail: Adriana.Lazarova@kz	zntransport.gov.za	
	Telephone No: (033) 392 6600	Fax No: (033) 392 8076	
Clause 1.1.1.16:	Name of Employer's Agent: Naid	u Consulting (Pty) Ltd represented by	
	Mr. Kevin Govender		
	Address of Employer's Agent:		
	Physical:	Postal:	
	1 <sup>st</sup> Floor, No. 5 The Boulevard Westway Office Park 3635	P.O. Box 2796 Westville 3635	
	E-Mail: Kevin.Govender@naiduconsulting.com		
	Telephone No: (031) 265 6007	Fax No: (031) 265 6011	
3.	EMPLOYER'S AGENT		
Clause 3.2.3:	The Employer's Agent is required to obtain the specific approval of the Employer for any expenditure in excess of the Contract Price.		

CONTRACT No.: ZNB00771-00000-00-PMR-INF-21-T

REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER	
4.	CONTRACTOR'S GENERAL OBLIGATIONS	
Clauses 4.1.1 and SCC 4.1.1:	The penalty for failing to achieve the monetary value of the target set by the Employer for local labour content in terms of Part E: Requirements of the Expanded Public Works Programme (EPWP) of section C3.3 Particular Specifications in Part C3: Scope of Works, is 5% of the monetary value by which the achieved monetary value falls short of the target monetary value.	
	The penalty for failing to achieve the monetary value of the target set by the Employer for contract participation by Targeted Enterprises in terms of Part G: Small Contractor Development of section C3.3 Particular Specifications in Part C3: Scope of Works, is 5% of the monetary value by which the achieved monetary value falls short of the target monetary value.	
5.	TIME AND RELATED MATTERS	
Clauses 5.3.1 and 5.3.2:	Where the Employer <b>is not required</b> to apply for a permit to do construction work in terms of Construction Regulation 3(1), the following documentation is to be submitted within <u>14 days</u> from the Commencement Date:	
	<ul> <li>The documents required before commencing to carry out the Works:</li> <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>Form C1.4 'Agreement in terms of Section 37(2) of the Occupational Health and Safety Act No. 85 of 1993' to be signed by the Contractor and the Employer (refer to Clause 4.3 of the GCC 2015 and to paragraph D9. CONTRACTOR'S RESPONSIBILITIES in Part D of C3.3 Particular Specifications)</li> </ul>	
Clauses SCC 5.3.1 and SCC 5.3.2:	Where the Employer is required to apply for a permit to do construction work in terms of Construction Regulation 3(1), the following documentation is to be submitted within 14 days from the date that the Agreement, made in terms of the Form of Offer and Acceptance, comes into effect:  The documents required before commencing to carry out the Works:  Health and Safety Plan (refer to Clause 4.3)  Initial Programme (refer to Clause 5.6)  Security (refer to Clause 6.2)  Insurance (refer to Clause 8.6)	
	<ul> <li>Form C1.4 'Agreement in terms of Section 37(2) of the Occupational Health and Safety Act No. 85 of 1993' to be signed by the Contractor and the Employer (refer to Clause 4.3 of the GCC 2015 and to paragraph D9. CONTRACTOR'S RESPONSIBILITIES in Part D of C3.3 Particular Specifications)</li> </ul>	
	The documents required by the Employer to apply for a permit to do construction work in terms of Regulations 3(1) and (2) of the Construction Regulations 2014:	

REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER		
	<ul> <li>Temporary works designer's appointment duties in terms of Regulation 6(2) as have been agreed upon plus proof of registration with ECSA [CR 3(5)(b)(iii) read with CR 5(1)(e) and CR 6(2)];</li> <li>Evidence that the contractor has made adequate provision for the cost of Health and Safety, i.e., Bill of quantities [CR 3(5)(b)(iii) read with CR 5(1)(g)];</li> <li>Evidence that the Principal contractor has the necessary competencies to carry out construction work safely, viz., schedule of activities, relevant appointments and proofs of competency [CR 5(1)(h)];</li> <li>Valid Letter(s) of Good Standing for the appointed Principal Contractor(s) [CR 3(5)(b)(ii) read with CR 5(1)(j)].</li> </ul>		
Clause 5.8.1:	The non-working days are Sundays.		
	The special non-working days are the construction industry year end break, all foreseeable statutory election days as declared by National Government, and the following statutory public holidays as declared by National Government:		
	New Year's Day, Human Rights Day, Good Friday, Family Day, Freedom Day, Workers' Day, Youth Day, National Women's Day, Heritage Day, Day of Reconciliation, Christmas Day and the Day of Goodwill.		
	The construction industry year end break commences on the first working day after 15 December and ends on the first working day after 5 January of the following year.		
Clause 5.13.1:	The penalty for failing to complete the Works is 0,05% of the Contract Sum per day, up to a maximum limit of twenty-five thousand rand per day (R25000,00 per day).		
Clause 5.14.1:	The requirements for achieving Practical Completion are as stated in the General Conditions of Contract 2015.		
Clause 5.16.3:	The latent defects period is 10 years.		

REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER		
6.	PAYMENT AND RELATED MATTERS		
Clauses 6.2.1 and SCC 6.2.1:	The security to be provided by the Contractor shall be:		
300 0.2.1.	Fixed Performance Guarantee of 8% of the first One Million Rand plus 3.5% of the balance of the accepted Contract Sum.		
Clause 6.5.1.2.3:	The percentage allowance to cover overhead charges is 15%.		
Clauses 6.8.2 and SCC 6.8.2:	The value of the certificates issued shall be adjusted in accordance with the Contract Price Adjustment Schedule with the following values:		
	The values of the coefficients for calculating the Contract Price Adjustment Factor are:		
	a = 0.20 $b = 0.40$ $c = 0.25$ $d = 0.15$		
	The "Consumer Price Index" will be as for the Province of <b>KwaZulu-Natal</b> .		
	The base month is the month prior to the month in which the closing date for the tender falls.		
Clause 6.8.3:	Price adjustments for variations in the costs of special materials are allowed.		
Clause 6.10.1.5:	The percentage advance on materials not yet built into the Permanent Works is 80%.		
Clause 6.10.3:	The percentage retention on the amounts due to the Contractor is 10%.		
	The limit of retention money is 5% of the first One Million Rand plus 1.6% of the remaining amount of the tender offer excluding Contract Price Adjustment, contingencies and VAT.		
	A retention guarantee in lieu of a cash retention is permitted.		
8.	RISKS AND RELATED MATTERS		
Clause 8.6.1.1.2:	The value of Plant and materials supplied by the Employer to be included in the insurance sum is NIL.		
Clause 8.6.1.1.3:	The amount to cover professional fees for repairing or reinstatement of damage to the Works to be included in the insurance sum is NIL.		
Clause 8.6.1.2:	Special Risks Insurance issued by SASRIA is required.		
Clause 8.6.1.3:	The limit of indemnity for liability insurance is R10 000 000,00 (ten million Rand only) for any single liability claim. Liability insurance shall include spread of fire risk.		
10.	CLAIMS AND DISPUTES		
Clause 10.5.3:	The number of Adjudication Board Members to be appointed is one.		
Clause 10.7.1:	Unresolved disputes shall be referred to arbitration.		
	I		

REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER	
C1.11	Penalty applicable to any shortfall in the local labour content achieved	
Refer to Part C3: Scope of Works, section C3.3 Particular Specifications, Part E: Requirements of the Expanded Public Works Programme (EPWP)	The specified minimum percentage of local labour content is 10%	
PART G	SMALL CONTRACTOR DEVELOPMENT	
G2.9	(a) The target area for local labour is Msunduzi Local Municipality	
	The target area for Targeted Enterprises is Msunduzi Local Municipality.	
	CONTRACT PARTICIPATION	
	(b) Contract Participation Targets	
	The Contract Participation Target for Targeted Enterprises is 35%	

## C1.2.2: CONTRACT DATA (Applicable to this contract)

## PART B: DATA PROVIDED BY THE CONTRACTOR

The following contract specific data are applicable to this contract.

REFERENCE	CONTRACT SPECIFIC DATA PROVIDED BY THE CONTRACTOR		
1.	GENERAL		
Clause 1.1.1.9:	Name of the Contractor:		
Clause 1.2.1.2:	Address of the Contractor:		
	Physical:	Postal:	

## **C1.3: PERFORMANCE GUARANTEE**

CONTRACT No.: ZNB00771-00000-00-PMR-INF-21-T

## **PRO FORMA**

## PERFORMANCE GUARANTEE

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

# "Guarantor" means: "Physical address: "Employer" means: "Contractor" 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: "Expiry Date" means: "Or any other later date set by the

## 2. 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.

Contractor and/or Employer provided such instruction is received prior to the Expiry Date as indicated here.

## 3. GUARANTOR'S LIABILITY

- 3.1 The Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
- 3.2 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.
- 3.3 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.

## 4. CONDITIONS APPLICABLE TO THIS PERFORMANCE GUARANTEE

- 4.1 The Guarantor hereby acknowledges that:
- 4.1.1 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.

CONTRACT No.: ZNB00771-00000-00-PMR-INF-21-T

- 4.1.2 Its obligation under this Performance Guarantee is restricted to the payment of money.
- 4.2 Subject to the Guarantor's maximum liability referred to in 3.1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.2.1 to 4.2.3:
- 4.2.1 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 4.2.2;
- 4.2.2 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 4.2.1 and the sum certified has still not been paid;
- 4.2.3 A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 4.2.
- 4.3 Subject to the Guarantor's maximum liability referred to in 3.1, 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:
- 4.3.1 the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 4.3; or
- 4.3.2 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 4.3; and
- 4.3.3 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.
- 4.4 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4.2 and 4.3 shall not exceed the Guarantor's maximum liability in terms of 3.1.
- 4.5 Where the Guarantor has made payment in terms of 4.3, 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.
- 4.6 Payment by the Guarantor in terms of 4.2 or 4.3 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
- 4.7 Payment by the Guarantor in terms of 4.3 will only be made against the return of the original Performance Guarantee by the Employer.
- 4.8 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.

- CONTRACT No.: ZNB00771-00000-00-PMR-INF-21-T
- 4.9 The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
- 4.10 This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 3.2, 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.
- 4.11 This Performance Guarantee, with the required demand notices in terms of 4.2 or 4.3, shall be regarded as a liquid document for the purposes of obtaining a court order.
- 4.12 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
- <b>3</b>
Date
Guarantor's signatory (1)
Capacity
Guarantor's signatory (2)
Capacity
Witness signatory (1)
Witness signatory (2)

## C1.4: AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT No 85 OF 1993

CONTRACT No.: ZNB00771-00000-00-PMR-INF-21-T

THIS AGREEMENT is made between The Province of KwaZulu-Natal represented by Head of Department:

Department of Transport
(hereinafter called the EMPLOYER) of the one part, herein represented by:

in his capacity as:

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

in his capacity as:

duly authorised to sign on behalf of the Contractor.

**WHEREAS** the CONTRACTOR is the Mandatary of the EMPLOYER in consequence of an agreement between the CONTRACTOR and the EMPLOYER in respect of:

CONTRACT NO. ZNB00771-00000-00-PMR-INF-21-T: THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

for the construction, completion and maintenance of the works;

**AND WHEREAS** the EMPLOYER and the CONTRACTOR have agreed to enter into an agreement in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act No 85 of 1993, as amended by OHSA Amendment Act No 181/1993 (hereinafter referred to as the ACT);

## NOW THEREFORE the parties agree as follows:

- 1. The CONTRACTOR undertakes to acquaint the appropriate officials and employees of the CONTRACTOR with all relevant provisions of the ACT and the regulations promulgated in terms thereof.
- 2. The CONTRACTOR undertakes to fully comply with all relevant duties, obligations and prohibitions imposed in terms of the ACT and Regulations: Provided that should the EMPLOYER have prescribed certain arrangements and procedures that same shall be observed and adhered to by the CONTRACTOR, his officials and employees. The CONTRACTOR shall bear the onus of acquainting himself/herself/itself with such arrangements and procedures.
- 3. The CONTRACTOR hereby accepts sole liability for such due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures, if any, imposed by the ACT and Regulations, and the CONTRACTOR expressly absolves the EMPLOYER and the EMPLOYER'S AGENT from being obliged to comply with any of the aforesaid duties, obligations, prohibitions, arrangements and procedures in respect of the work included in the contract.
- 4. The CONTRACTOR agrees that any duly authorised officials of the EMPLOYER shall be entitled, although not obliged, to take such steps as may be necessary to ensure that the CONTRACTOR has complied with his undertakings as more fully set out in paragraphs 1 and 2 above, which steps may include, but shall not be limited to, the right to inspect any appropriate site or premises occupied by the CONTRACTOR, or to take such steps the EMPLOYER may deem necessary to remedy the default of the CONTRACTOR at the cost of the CONTRACTOR.

5. 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 agreement, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge.

Thus signed at	for and on behalf of the CONTRACTOR
on this the day of	20
SIGNATURE:	
NAME AND SURNAME:	
CAPACITY:	
WITNESSES: 1	
2	
Thus signed at	for and on behalf of the EMPLOYER on this
the day of	20
SIGNATURE:	
NAME AND SURNAME:	
CAPACITY:	
<b>WITNESSES:</b> 1	
2	

## **C1.5: RETENTION MONEY GUARANTEE**

CONTRACT No.: ZNB00771-00000-00-PMR-INF-21-T

## **PRO FORMA**

## **RETENTION MONEY GUARANTEE**

DEPARTMENT OF TRANSPORT REGIONAL OFFICE, PIETERMARITZBURG PRIVATE BAG X 9043 PIETERMARITZBURG 3200

CONTRACT NO. ZNB00771-00000-00-PMR-INF-21-T: THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

ISSUED TO: the PROVINCE OF KWAZULU-referred to as "the Employer")	NATAL, represented by HEAD: TRANSPORT (Hereinafter
ON BEHALF OF:	(Hereinafter referred to as "the Contractor")
In connection with	

CONTRACT NO.: ZNB00771-00000-00-PMR-INF-21-T (Hereinafter referred to as "the Contract")

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

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

- 1. Each demand by the Employer shall be in writing signed by the Employer and delivered to us at or such other address as we shall in writing notify to the Employer and shall be accompanied by a certificate complying with Clause 2, signed by the Employer's Agent as such in terms of the Contract.
- 2. The Employer's Agent's certificate referred to in Clause 1 shall certify
  - (a) that he is the Employer's Agent in terms of the Contract,
  - (b) that the Contractor is in breach of his obligations under the Contract, and
  - (c) that the amount demanded, which amount the certificate shall specify,
    - (i) does not exceed the amount of retention monies which, but for this guarantee, would have been retained by the Employer in terms of the Contract at the date of the certificate, less the aggregate of the amounts of retention money actually retained by the Employer and the amounts previously paid by us to the Employer in terms hereof, and
    - (ii) does not exceed a genuine estimate of the cost to the Employer of having the breach referred to in paragraph (b) remedied less the aggregate of any amounts withheld by the Employer from payments due the Contractor in terms of the Contract by reason of the breach referred to, and any amount in retention money actually held by the Employer save to the extent that the same had been deducted from any previous demand in terms hereof.
- 3. We shall within 28 days after our receipt of a demand complying with the provisions of Clauses 1 and 2 make payment to the Employer of the amount demanded at 172 Burger Street, Pietermaritzburg or at such other address as the Employer shall in writing notify us.
- 4. Subject to compliance with the provisions thereof, our liability to make the payments herein referred to shall be unconditional and shall not be affected nor diminished by any disputes, claims or counterclaims between the Employer and the Contractor

- 5. Our aggregate liability under this guarantee is limited to R ......
- 6. This guarantee shall expire on the date on which the last of the retention monies, which but for this guarantee would have been retained by the Employer, becomes payable to the Contractor.
- 7. This guarantee is not transferable and must be produced for endorsement if any part payment is made and must be returned to us against final payment of our aggregate liability or on the date of the expiry of the guarantee in terms of Clause 6, whichever is the earlier.

Signed in the presence of the witnesses named hereunder:

At	for and on behalf of
on this	day of
Signature:	
Capacity:	
Address:	
As Witnesses	::
1	Name in Block Letters
2	Name in Block Letters

## **C1.6: TRANSFER OF RIGHTS**

CONTRACT No.: ZNB00771-00000-00-PMR-INF-21-T

		·				
Claim for materials on site,	Paymen	t Certificate No	o <b>.</b>	Date:		
TRANSFER OF RIGHTS AND INDEMNITY To be completed during construction by successful Tenderer only)  Claim for materials on site, Payment Certificate No						
I, the undersigned (name of si	ignatory)				in my capacity	as
		of (name of	Contract	or)		
title and interest in and to the	materia	ils and goods, f	for which	evidence of b	ona fide ownership is	
				ls and goods	, the right of ownership	o thereof
Contractor's sequestration or that no payment for materials	liquidations on site	on or of any de will be made	fect in the	e Contractor's mployer until	title to the materials ar	nd agree
or from any other person on be	ehalf of t					
that they have been insured	adequate	ely against all r	isks and v			
This certificate of Transfer of table.	of Rights	applies only t	o the ma	terials and g	oods as listed in the fo	ollowing
DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE	AMOUNT	SUPPLIER	
TOTAL VALUE OF MATERI	ALS ANI	D GOODS				
					Date:	
ior and on behall of the Contra	actor.					

Clause 6.10.1.5 of the General Conditions of Contract 2015.

## C2: PRICING DATA

## C2.1 INSTRUCTIONS

## 1. GENERAL

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

## 2. DESCRIPTION OF ITEMS IN THE SCHEDULE

The Bill of Quantities has been drawn up generally in accordance with the relevant provisions of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

The short descriptions of the items in the Bill of Quantities are for identification purposes only and the measurement and payment clause of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020. and the Particular Specifications, read together with the relevant clauses of the amendments and additions contained in the Project Specifications and directives on the drawings, set out what ancillary or associated work and activities are included in the rates for the operations specified.

The item numbers appearing in the Bill of Quantities refer to the corresponding item numbers in the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020. Item numbers prefixed by the letter PS refer to items of payment described in Part B Amendments to the Standard Specifications.

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

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

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

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

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

Lump Sum: An amount tendered for an item, the extent of which is described in the Schedule of

Quantities, the specifications or elsewhere but the quantity of work of which is not

measured in any units.

## 3. QUANTITIES REFLECTED IN THE SCHEDULE

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

The Works as finally completed in accordance with the Contract shall be measured and paid for as specified in the Bill of Quantities and in accordance with the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020, the Project Specifications and the Drawings. Unless otherwise stated, items are measured net in accordance with the Drawings, and no allowance has been made for waste. The validity of the contract will in no way be affected by differences between the quantities in the Bill of Quantities and the quantities finally certified for payment..

## 4. PROVISIONAL SUMS

Where Provisional sums or Prime Cost sums are provided for items in the Schedule of Quantities, payment for the work done under such items will be made in accordance with Clause 6.6 of the General Conditions of Contract 2015. The Employer reserves the right, during the execution of the works, to adjust the stated amounts upwards or downwards according to the work actually done under the item, or the item may be omitted altogether, without affecting the validity of the Contract.

The Tenderer shall not under any circumstances whatsoever delete or amend any of the sums inserted by the Employer in the "Amount" column of the Schedule of Quantities and in the Summary of the Schedule of Quantities unless so ordered or authorised in writing by the Employer before closure of tenders. Any unauthorised changes made by the Tenderer to provisional items in the schedule, or to the provisional percentages and sums in the Summary of the Schedule of Quantities, at the Employer's discretion, may invalidate the Tenderer's offer or may be treated as arithmetical errors and the provisional items and percentages corrected without change to the Contract Sum.

## 5. SCHEDULE OF QUANTITIES

The prices and rates to be inserted by the Tenderer in the Bill of Quantities shall be the full inclusive prices to be paid by the Employer for the work described under the several items, and shall include full compensation for all costs and expenses that may be required in and for the completion and maintenance during the defects liability period of all the work described and as shown on the drawings as well as all overheads, profits, incidentals and the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the Tender is based. The rates and lump sums shall be comprehensive in accordance with Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

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

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

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

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

The Tenderer shall fill in rates for all items where the words "rate only" appear in the "Amount" column. The provisions of subclause C1.1.3.6 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 shall apply to rate only items. "Rate Only" items have been included where:

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

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

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

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

## 6. CORRECTION OF ENTRIES

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

## 7. INTERIM PAYMENTS

Unless otherwise specified, progress payments in Interim Certificates, referred to in Clause 6.10 of the General Conditions of Contract 2015, in respect of "sum" items in the Schedule of Quantities shall be by means of interim progress instalments assessed by the Employer's Agent and based on the measure in which the work actually carried out relates to the extent of the work to be done by the Contractor.

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

Attention is directed to the provisions of Clause C1.1.2 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 regarding the measurement of quantities for payment. Except where specified otherwise, the nett measurements or mass of the finished work in place shall be taken for payment, but any quantity of work in excess of that prescribed shall be excluded.

## 8. UNITS OF MEASUREMENT

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

mm	= millimetre	m³-km	= cubic metre-kilometre	Prov su	m= provisional sum
m	= metre	1	= litre	kPa	= kilopascal
km	= kilometre	kl	= kilolitre	MPa	= megapascal
km-pass	s = kilometre-pass	kg	= kilogram	MN	= meganewton
$m^2$	= square metre	t	= ton (1 000 kg)	t-km	= ton-kilometre
m²-pass	= square metre-pass	No	= number	h	= hour
ha	= hectare	%	= percent	dia	= diameter
$m^3$	= cubic metre	PC sum	= prime cost sum	Sum	= lump sum
kW	= kilowatt	MN-m	= meganewton-metre		

## 9. CONSISTENCY OF RATES

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

A tender will be considered out of balance if:

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

## C1.3.1 The contractor's general obligations:

C1.3.1.1 Fixed obligations
C1.3.1.3 Time-related obligations

exceeds a maximum of 15% of the Contract Sum (excluding contingencies, contract price adjustment and VAT).

(ii) the rate, price or amount tendered <u>for any other item</u> differs by more than 20 (twenty) percent from the <u>average</u> of the rates, prices or amounts <u>for the same item</u> as tendered by those tenderers who submitted the lowest five responsive tender offers (or as tendered by all the responsive tenderers if there are less than five responsive tenderers).

Any such out of balance tender may be rejected if, after three (3) working days of having been given written notice by the Employer to adjust those rates or lump sums which are unreasonable or out of balance, the Tenderer fails to make the necessary satisfactory adjustments. These adjustments in rectification will be such that increases are balanced by decreases, leaving the tender offer unchanged.

## 11. FILLING OUT OF SCHEDULE

The schedule must be filled out by hand in **black ink only.** 

Typed out schedules and computer generated schedules including automated calculations will **NOT** be accepted. Tenders will be considered non-responsive. If this is found to be the case.

## 12. HANDLING COSTS

Handling costs and profits in respect of specialist work carried out by approved 3<sup>rd</sup> party Tenderers, provisional sum or prime cost items, shall not exceed 10% of the work amount, provisional sum or prime cost costs.

.

## **C2.2. SCHEDULE OF QUANTITIES**

	Page
SCHEDULE OF QUANTITIES	C30
TENDER SUMMARY	C65

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

	<b></b>		1			CHAPTER	
ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUN <sup>-</sup>	1
C1.2	GENERAL REQUIREMENTS AND PAYMENT					K	С
C1.2.1	Environmental Management						
C1.2.1.1	Monitoring of compliance with and reporting on the EMP	month		24.0			
C1.2.1.2	Dedicated environmental officer	month		24.0			
C1.2.2	Programming and Reporting						
C1.2.2.1	Submission of a Scheme 1 Programme	Sum		1.0			
C1.2.2.2	Reviewing and updating a Scheme 1 Programme	month		3.0			
C1.2.2.3	Submission of a Scheme 2 Initial Programme	Sum		1.0			
C1.2.2.4	Submission of a Scheme 2 Full Programme	Sum		1.0			
C1.2.2.5	Reviewing and updating a Scheme 2 Programme every month	month		21.0			
C1.2.2.6	Preparation and submission of all information and reports specified in the Contract Document	month		24.0			
C1.2.3	Routine maintenance of existing public roads within the Site of the Works or other public roads outside the Site of Works which are used as detours						
C1.2.3.1	Grass cutting	ha		4.0			
C1.2.3.2	Drain cleaning	km		8.0			
C1.2.3.3	Cleaning out culverts	$m^3$		800.0			
C1.2.3.4	Collection of rubbish / litter	km		8.0			
C1.2.3.7	Base and/or surface patching using hot plant mixed asphalt	t		500.0			
C1.2.3.8	Replacement of damaged guardrails including posts	m		200.0			
C1.2.3.9	Grading of temporary gravel deviations and existing roads used as detours	km		8.0			
C1.2.3.10	Watering of temporary gravel deviations and existing roads used as detours	kl		3000.0			
Total Carr	ied Forward						

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

ITENA	DESCRIPTION LINUT LIG OTY DATE					CHAPTER C1.2		
ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUNT R	С	
Brought F	Forward					IX.		
C1.2.3.1	Other road maintenance work ordered by the Engineer	Prov Sum		1.0	400,000.0	400,000	00	
	Handling cost, profit and all other charges in respect of item C1.2.3.11	%		400,000.0				
C1.2.3.1	Liaison with the routine road maintenance contractor	month		24.0				
C1.2.4	Stakeholder liaison	month		24.0				
C1.2.5	Safety							
C1.2.5.1	Health and safety plan.	L/Sum		1.0				
C1.2.5.2	Implementation of health and safety plan	month		24.0				
C1.2.6	Work adjacent to properties							
C1.2.6.1	Survey of adjacent properties	No		500.0				
C1.2.6.2	Preventive and/or mitigation measures	Prov Sum		1.0	400,000.0	400,000	00	
C1.2.6.3	Handling cost, profit and all other charges in respect of item C1.2.6.2	%		400,000.0				
C1.2.7	Road safety audits							
C1.2.7.1	Stage 4 work zone traffic management audit	Prov Sum		1.0	50,000.0	50,000	00	
C1.2.7.2	Handling cost, profit and all other charges in respect of item C1.2.7.1	%		50,000.0				
C1.2.7.3	Stage 5 pre-opening stage traffic safety audit	Prov Sum		1.0	50,000.0	50,000	00	
C1.2.7.4	Handling cost, profit and all other charges in respect of item C1.2.7.3	%		50,000.0				
C1.2.8	Dayworks							
C1.2.8.1	Personnel							
(a)	Unskilled labourer	hour		250.0				
(b)	Semi-skilled labourer	hour		250.0				
(c)	Skilled labourer	hour		200.0				
(d)	Gang leader	hour		100.0				
(e)	Foreman	hour		250.0				
(f)	Skilled Artisan	hour		200.0				
Total Ca	rried Forward			· '				

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

						CHAPTER (	C1.2
ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUNT R	_
Brought F	Forward					ĸ	С
	Construction Equipment (specify size and/or model number)						
(a)	Motor grader	hour		150.0			
(b)	Vibratory roller	hour		150.0			
(c)	Pneumatic roller	hour		150.0			
(d)	Front end loader backhoe	hour		150.0			
(e)	Excavator	hour		150.0			
(f)	Compressor	hour		150.0			
(g)	Other equipment (Water tanker)	hour		150.0			
C1.2.8.3	Vehicles (specify size)						
(a)	Light delivery vehicle	km		12,600.0			
(b)	Flatbed truck	km		5,200.0			
(c)	Dump Truck	km		13,000.0			
C1.2.8.4	Materials						
(a)	Procurement of materials	Prov Sum		1.0	1,500,000.0	1,500,000	00
(b)	Contractor's handling costs, profit and all other charges in respect of item C1.2.8.4(a)	%		1,500,000.0			
C1.2.9.2	Disposal of non-usable assets not identified at time of tender	Prov Sum		1.0	500,000.0	500,000	00
C1.2.9.3	Handling cost, profit and all other charges in respect of item C1.2.9.2	%		500,000.0			
Total Ca	rried Forward To Summary						

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

1						HAPTER C1.	
ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUN	- I
C1.3	CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS					R	С
C1.3.1	The Contractor's general obligations						
C1.3.1.1	Fixed obligations	L/Sum		1.0			
C1.3.1.3	Time-related obligations	month		24.0			
C1.3.2	Contract sign boards	m²		60.0			
Total Carr	ied Forward To Summary						

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

ITEM					AMOUNT		
I I EIVI	DESCRIPTION	ONLI	LIC	QII	KAIL	R	С
C1.4	FACILITIES FOR THE ENGINEER						
C1.4.1	Site accommodation						
C1.4.1.1	Offices and conference room	m²		200.0			
C1.4.1.2	Laboratories	m²		200.0			
C1.4.1.3	Open concrete working floors and verandas	m²		100.0			
C1.4.1.4	Roofs over open concrete working floors and verandas	m²		100.0			
C1.4.1.5	Store rooms inside the laboratory	m²		100.0			
C1.4.1.6	Car ports	No		6.0			
C1.4.1.7	Ablution unit (interior floor space). Minimum of a Sanitec VIP Toilet including all Plumbing fittings, Water supplies, septic Tanks, Soakaways, etc.	No		6.0			
C1.4.1.8	Change room with a shower	No		2.0			
C1.4.1.9	Kitchen unit	No		2.0			
C1.4.2	Items measured by area						
C1.4.2.4	Constant temperature baths of concrete and/or plastered brick	m²		24.0			
C1.4.2.5	Concrete footings and pedestals for laboratory	m²		10.0			
C1.4.2.6	Roller blinds, opaque type	m²		15.0			
C1.4.2.7	Venetian blinds	m²		15.0			
C1.4.2.8	Notice boards (Standard 1000mm x 1800mm Grey Notice board)	m²		20.0			
C1.4.2.9	White boards (900mm x 1200mm Nobo White Board Ellipse Dry wipe Magnetic)	m²		12.0			
C1.4.2.10	Galvanised wire mesh fencing for store rooms	m²		150.0			
C1.4.2.11	Galvanised wire mesh store room gate with padlock	m²		10.0			
C1.4.2.13	Rented housing paid for by the Contractor	Prov Sum		1.0	360,000.0	360,000	00
C1.4.2.14	Contractor's handling costs, profit and all other charges	%		360,000.0			
Total Carr	ied Forward						

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

, <del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		—		OT:		PTER C1.4	
ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUN	1
Brought F	R	С					
C1.4.3	Items measured by number						
C1.4.3.1	Office swivel chair	No		4.0			
C1.4.3.2	Office chairs	No		15.0			
C1.4.3.3	Draughtsman's stool	No		2.0			
C1.4.3.4	Laboratory high chair	No		9.0			
C1.4.3.5	Office desk with 3 drawers (at least one lockable drawer)	No		4.0			
C1.4.3.7	Drawing table	No		2.0			
C1.4.3.8	32mm thick Melamine Modular 6 to 10 seater Conference table	No		1.0			
C1.4.3.9	Bookcase	No		1.0			
C1.4.3.11	General purpose steel cabinet with shelves	No		2.0			
C1.4.3.12	Wall mounted pivot plan filing system	No		2.0			
C1.4.3.13	220/250 volt power points (2 x15A)	No		14.0			
C1.4.3.14	400/231 volt 2-phase power outlet plug point	No.		10.0			
C1.4.3.15	Single 1500 m, 58 watt fluorescent tube ceiling light	No		2.0			
C1.4.3.16	Single 1 500 mm, 22 watt LED tube ceiling light	No		2.0			
C1.4.3.17	11 watt compact fluorescent bulb ceiling light	No		20.0			
C1.4.3.18	7 watt LED bulb ceiling light	No		20.0			
C1.4.3.19	Wash-hand basin	No		2.0			
C1.4.3.20	Laboratory basin	No		2.0			
C1.4.3.23	Fire extinguisher 9,0 kg, dry powder type	No		4.0			
C1.4.3.24	Air-conditioning unit	No		4.0			
C1.4.3.26	Concrete specimen curing bath	No		2.0			
C1.4.3.27	Waste paper basket	No		6.0			
Total Carr	ied Forward						1

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

**CHAPTER C1.4** 

Brought Forward			T			CI	HAPTER C1.4	
Brought Forward  C1.4.3.29 A3 / A4 colour printer, copier, scanner  No 3.0  C1.4.3.31 Rain gauge  No 1.0  C1.4.3.33 Digital thermometer  No 24.0  C1.4.3.36 Measuring wheel  No 3.0  C1.4.3.37 First aid kit  No 3.0  C1.4.4.5 The provision of internet connectivity and WIFI data for Engineer's site staff  C1.4.4.5 The provision of paper and ink for a combination colour printer/copier/scanner  C1.4.4.7 The provision of paper and ink for a combination colour printer/copier/scanner  C1.4.4.8 Handling cost and profit in respect of item C1.4.4.7  C1.4.4.9 The provision of a complete 220/250 volt single phase electrical power installation, including all poles, insulators, wiring switchboards, mains connection, meters, etc.  C1.4.4.11 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc.  PC Sum 1.0 50,000.0 50,000	ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE		T
C1.4.3.29 A3 / A4 colour printer, copier, scanner  No  1.0  C1.4.3.31 Rain gauge  No  1.0  C1.4.3.33 Digital thermometer  No  24.0  C1.4.3.36 Measuring wheel  No  2.0  C1.4.3.37 First aid kit  No  3.0  C1.4.4 Prime cost items  C1.4.4.5 The provision of internet connectivity and WIFI data for Engineer's site staff  C1.4.4.6 Handling cost and profit in respect of item C1.4.4.7 The provision of paper and ink for a combination colour printer/copier/scanner  C1.4.4.8 Handling cost and profit in respect of item C1.4.4.7  C1.4.4.9 The provision of a complete 220/250 volt single phase electrical power installation, including all poles, insulators, wiring switchboards, mains connection, meters, etc.  PC Sum  1.0  70,000.0  50,000.0							R	С
C1.4.3.31 Rain gauge No 1.0  C1.4.3.33 Digital thermometer No 24.0  C1.4.3.36 Measuring wheel No 2.0  C1.4.3.37 First aid kit No 3.0  C1.4.4 Prime cost items  C1.4.4.5 The provision of internet connectivity and WIFI data for Engineer's site staff PC Sum 1.0 150,000.00  C1.4.4.6 Handling cost and profit in respect of item C1.4.4.5  C1.4.4.7 The provision of paper and ink for a combination colour printer/copier/scanner PC Sum 1.0 70,000.00  C1.4.4.8 Handling cost and profit in respect of item C1.4.4.7  C1.4.4.9 The provision of a complete 220/250 volt single phase electrical power installation, including all poles, insulators, wiring switchboards, mains connection, meters, etc. PC Sum 1.0 50,000.0  C1.4.4.10 Handling cost and profit in respect of item C1.4.4.9  C1.4.4.11 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc. PC Sum 1.0 50,000.00 50,000	Brought F	orward	Τ	1	· · · · · · · · · · · · · · · · · · ·			
C1.4.3.36 Measuring wheel No 2.0  C1.4.3.37 First aid kit No 3.0  C1.4.4.5 The provision of internet connectivity and WIFI data for Engineer's site staff PC Sum 1.0 150,000.00 150,000  C1.4.4.6 Handling cost and profit in respect of item C1.4.4.7 The provision of paper and ink for a combination colour printer/copier/scanner PC Sum 1.0 70,000.00 70,000  C1.4.4.8 Handling cost and profit in respect of item C1.4.4.7 The provision of a complete 220/250 volt single phase electrical power installation, including all poles, insulators, wiring switchboards, mains connection, meters, etc. PC Sum 1.0 50,000.0 50,000  C1.4.4.10 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc. PC Sum 1.0 50,000.0 50,000	C1.4.3.29	A3 / A4 colour printer, copier, scanner	No		3.0			
C1.4.3.36 Measuring wheel No 2.0  C1.4.3.37 First aid kit No 3.0  C1.4.4 Prime cost items  C1.4.4.5 The provision of internet connectivity and WIFI data for Engineer's site staff PC Sum 1.0 150,000.00 150,000  C1.4.4.6 Handling cost and profit in respect of item C1.4.4.7 The provision of paper and ink for a combination colour printer/copier/scanner PC Sum 1.0 70,000.00 70,000  C1.4.4.8 Handling cost and profit in respect of item C1.4.4.7 The provision of a complete 220/250 volt single phase electrical power installation, including all poles, insulators, wiring switchboards, mains connection, meters, etc. PC Sum 1.0 50,000.00  C1.4.4.10 Handling cost and profit in respect of item C1.4.4.9 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc. PC Sum 1.0 50,000.00 50,000	C1.4.3.31	Rain gauge	No		1.0			
C1.4.3.37 First aid kit  C1.4.4.4 Prime cost items  C1.4.4.5 The provision of internet connectivity and WIFI data for Engineer's site staff  C1.4.4.6 Handling cost and profit in respect of item C1.4.4.5  C1.4.4.7 The provision of paper and ink for a combination colour printer/copier/scanner  C1.4.4.8 Handling cost and profit in respect of item C1.4.4.7  C1.4.4.9 The provision of a complete 220/250 volt single phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc.  C1.4.4.11 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc.  No  3.0  1.0  150,000.0  150,000.0  70,000  70,0	C1.4.3.33	Digital thermometer	No		24.0			
C1.4.4.5 The provision of internet connectivity and WIFI data for Engineer's site staff  C1.4.4.6 Handling cost and profit in respect of item C1.4.4.7 The provision of paper and ink for a combination colour printer/copier/scanner  C1.4.4.8 Handling cost and profit in respect of item C1.4.4.7 The provision of a complete 220/250 volt single phase electrical power installation, including all poles, insulators, wiring switchboards, mains connection, meters, etc.  C1.4.4.10 Handling cost and profit in respect of item C1.4.4.9 The provision of a complete 220/250 volt single phase electrical power installation, including all poles, insulators, wiring switchboards, mains connection, meters, etc.  C1.4.4.10 Handling cost and profit in respect of item C1.4.4.9 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc.  C1.4.4.11 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc.  C2.4.4.11 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc.	C1.4.3.36	Measuring wheel	No		2.0			
C1.4.4.5 The provision of internet connectivity and WIFI data for Engineer's site staff  C1.4.4.6 Handling cost and profit in respect of item C1.4.4.5  C1.4.4.7 The provision of paper and ink for a combination colour printer/copier/scanner  C1.4.4.8 Handling cost and profit in respect of item C1.4.4.7  C1.4.4.9 The provision of a complete 220/250 volt single phase electrical power installation, including all poles, insulators, wiring switchboards, mains connection, meters, etc.  C1.4.4.10 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring switchboards, mains connection, meters, etc.  C1.4.4.11 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc.  C1.4.4.11 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc.  C1.4.4.11 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc.  C1.4.4.11 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc.	C1.4.3.37	First aid kit	No		3.0			
data for Engineer's site staff  C1.4.4.6 Handling cost and profit in respect of item C1.4.4.7 The provision of paper and ink for a combination colour printer/copier/scanner  PC Sum  1.0 150,000.0  150,000.0  70,000  70,000  70,000  C1.4.4.8 Handling cost and profit in respect of item C1.4.4.7  The provision of a complete 220/250 volt single phase electrical power installation, including all poles, insulators, wiring switchboards, mains connection, meters, etc.  PC Sum  1.0 70,000.0  70,000	C1.4.4	Prime cost items						
C1.4.4.5 % 150,000.0  C1.4.4.7 The provision of paper and ink for a combination colour printer/copier/scanner PC Sum 1.0 70,000.00  C1.4.4.8 Handling cost and profit in respect of item C1.4.4.7 % 70,000.0  C1.4.4.9 The provision of a complete 220/250 volt single phase electrical power installation, including all poles, insulators, wiring switchboards, mains connection, meters, etc. PC Sum 1.0 50,000.00  C1.4.4.10 Handling cost and profit in respect of item C1.4.4.9 % 50,000.0  C1.4.4.11 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc. PC Sum 1.0 50,000.00 50,000	C1.4.4.5		PC Sum		1.0	150,000.00	150,000	00
C1.4.4.8 Handling cost and profit in respect of item C1.4.4.7 % 70,000.0 70,000.0 T0,000.0 T0	C1.4.4.6				150,000.0			
C1.4.4.9 The provision of a complete 220/250 volt single phase electrical power installation, including all poles, insulators, wiring switchboards, mains connection, meters, etc.  C1.4.4.10 Handling cost and profit in respect of item C1.4.4.9  C1.4.4.11 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc.  PC Sum  1.0 50,000.0  50,000  FC Sum  1.0 50,000.0  50,000	C1.4.4.7				1.0	70,000.00	70,000	00
single phase electrical power installation, including all poles, insulators, wiring switchboards, mains connection, meters, etc.  C1.4.4.10 Handling cost and profit in respect of item C1.4.4.9	C1.4.4.8		%		70,000.0			
C1.4.4.9 % 50,000.0  C1.4.4.11 The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc.  PC Sum 1.0 50,000.00	C1.4.4.9	single phase electrical power installation, including all poles, insulators, wiring			1.0	50,000.00	50,000	00
phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc.  PC Sum  1.0 50,000.00 50,000	C1.4.4.10				50,000.0			
C1.4.4.13 Handling post and profit in respect of item	C1.4.4.11	phase electrical power installation, including all poles, insulators, wiring, switchboards,	PC Sum		1.0	50,000.00	50,000	00
C1.4.4.12 Handing cost and profit in respect of item   %   50,000.0	C1.4.4.12	Handling cost and profit in respect of item C1.4.4.11	%		50,000.0			
C1.4.5 Services at site offices, laboratories and site accommodation	C1.4.5							
C1.4.5.1 Fixed costs Sum 1.0	C1.4.5.1	Fixed costs	Sum		1.0			
Total Carried Forward	Total Carr	ied Forward	<u> </u>	<u> </u>				

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

					U	HAPTER C1.4	•
ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUN	1
Brought F	orward					R	С
-	Running costs	month		24.0			
	Office staff	monu		24.0			
	Secretary / receptionist	month		24.0			
	Technical assistant	month		24.0			
C1.4.7	Site inspection transport						
C1.4.7.1	Provision of a bus, mini-bus or combi van for site inspection purposes (LVD)	per day		576.0			
C1.4.7.2	Travel on site	km		45,000.0			
C1.4.8	Site security measures for the Engineer's facilities						
C1.4.8.1	Supply and installation of all required security measures at the Engineer's site offices and laboratories	Sum		1.0			
C1.4.8.2	Provision of security guards / watchmen and an armed response service at the Engineer's site offices and laboratories	month		24.0			
Total Carr	ied Forward To Summary						

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

TC   4	DECODIDATION	LIKUT	110	OT\/		TER C1.6	
ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUNT R	С
C1.6	CLEARING AND GRUBBING					K	C
C1.6.1	Clearing						
C1.6.1.1	Clearing with machines and some hand labour where necessary	ha		3.0			
C1.6.1.2	Clearing with hand labour only when labour enhanced work is specified	ha		1.0			
C1.6.1.3	Clearing for new fence lines (over a width of 2,0 m)	km		3.0			
C1.6.1.4	Clearing for service trenches (over the agreed width required)	m²		500.0			
C1.6.2	Grubbing						
C1.6.2.1	Clearing with machines and some hand labour where necessary	ha		3.0			
C1.6.3	Removal and grubbing of large trees and tree stumps						
C1.6.3.1	Girth exceeding 1,0 m up to and including 2,0 m	No		20.0			
C1.6.4	Removal of buildings and structures						
C1.6.4.1	Location of each building or structure TBC on site	Sum		1.0			
C1.6.9	Conservation of topsoil						
C1.6.9.1	Stockpilling topsoil	m³		8,600.0			
C1.6.9.2	Windrowing topsoil	m³		2,500.0			
C1.6.10	Disposal of hazardous waste material:						
C1.6.10.1	Disposal of hazardous waste material at an approved hazardous waste material facility	Prov Sum		1.0	50,000.0	50,000	00
C1.6.10.2	Handling cost, profit and all other charges in respect of item C1.6.10.1	%		50,000.0			
Total Carri	ed Forward To Summary						
. J.a. Juill							ı

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

	,					PTER C1.7	
ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUN	
04.7	LOADING AND HALLING					R	С
C1.7	LOADING AND HAULING						
C1.7.1	Loading						
C1.7.1.1	Loading from stockpile using machines and						
	some hand loabour where necessary	$m^3$		8,600.0			
C1.7.1.2	Loading from heaps or windrows using machines and/some hand labour where						
	necessary	m <sup>3</sup>		2,500.0			
C1 7 2	Haveling						
01.7.2	Hauling						
C1.7.2.1	Hauling material for use in the Works and off-						
	loading it on the site of the Works:						
(a)	Soil, gravel, crushed stone and pavement						
	layer material	m³ - km		45,000.0			
(b)	Boulders and hard material	m³ - km		1,000.0			
_							
C1.7.2.2	Hauling material to spoil and off-loading it at a designated spoil or stockpile are:						
(a)	Cleared and grubbed material (organic matter						
()	and all other unsuitable or waste material)	m³ - km		25,000.0			
(b)	Soil and gravel material	m³ - km		5,000.0			
(c)	Boulders, hard material and concrete	m³ - km		1,000.0			
,							
Total Carri	ed Forward To Summary						

**CHAPTER C2.1** 

				1	1	HAPTER C2.1	
ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUNT	
						R	С
C2.1	GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES						
C2.1.1	Location, Identification and relocation of existing services						
C2.1.1.1	Contractor's obligations	Lump Sum		1.0			
C2.1.1.2	Permanent services relocation or protection work by others	PC Sum		1.0	1,000,000.0	1,000,000	00
C2.1.1.3	Handling costs and profit in respect of item C2.1.1.2 above	%		1,000,000.0			
C2.1.1.4	Permanent services relocation or protection work by Contractor	Prov Sum		1.0	300,000.0	300,000	00
C2.1.2	Existing services, detention and verification						
C2.1.2.1	Using specialist detection services (ground penetrating radar, radio detection etc.)	PC Sum		1.0	100,000.00	100,000	00
C2.1.2.2	Handling costs and profit in respect of item C2.1.2.1 above	%		100,000.0			
C2.1.2.3	Survey to verify existing service positions	PC Sum		1.0	100,000.0	100,000	00
C2.1.2.4	Handling costs and profit in respect of item C2.1.2.3 above	%		100,000.0			
C2.1.2.5	Using hand excavation to locate, expose and verify services	m³		200.0			
C2.1.3	Obtaining construction or work permits	Sum		1.0			
C2.1.4	Provision of guarantees or deposits for services						
C2.1.4.1	Providing guarantees and deposits	PC Sum		1.0	200,000.0	200,000	00
C2.1.4.2	Handling costs and profit in respect of item C2.1.4.1 above	%		200,000.0			
C2.1.5	Provision of record drawings and applicable data	Sum		1.0			
C2.1.6	Trench excavation(in soft material)						
C2.1.6.2	Trenches over 1.0m up to 2.0m wide :						
(a)	Up to 1.0m deep	m³		1,500.0			
(b)	Over 1.0m and up to 2.0m deep	m³		3,500.0			!
(c)	Over 2.0m deep etc.to be inserted, increased by additional 1.0m depths as required	m³		2,000.0			
Total Carr	ied Forward		<u> </u>				

**CHAPTER C4.1** 

ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUNT	
I I CIVI	DESCRIPTION	UNII	LIC	QIT	RAIE	R	С
C4.1	BORROW MATERIALS						
C4.1.1	Compiling and implementing M&U plans						
C4.1.1.1	For borrow pits (list all borrow pits separately)	N0		5.0			
C4.1.2	Additional material investigations during the supplementary exploration						
C4.1.2.1	Cost of additional trial pits and/or drilling and laboratory testing	Prov Sum		1.0	100,000.0	100,000	00
C4.1.2.2	Handling costs and profit in respect of item C4.1.2.1	%		100,000.0			
C4.1.3	Construction and maintenance of temporary haul and access roads						
C4.1.3.1	Temporary unsealed roads	km		55.0			
C4.1.3.2	Cost to repair existing public roads or streets	Prov Sum		1.0	150,000.0	150,000	00
C4.1.3.3	Handling cost and profit in respect of C4.1.3.2	%		150,000.0			
C4.1.4	Removing of the overburden						
C4.1.4.1	In borrow pits	m³		5,000.0			
C4.1.5	Excavating of materials in the borrow pits and quarries, material obtained from						
C4.1.5.1	Soft excavation	m³		1,000.0			
C4.1.5.2	Boulder excavation class A	m³		1,000.0			
C4.1.5.3	Hard excavation (by blasting)	m³		150.0			
C4.1.6	Providing crushing, screening and related plants	No		1.0			
C4.1.6.2	Two-stage crushing plant	No		1.0			
C4.1.6.4	Screening plant						
C4.1.6.5	Etc, for other plants (as stated by the Engineer and/or the Contractor)	No		1.0			
C4.1.7	Producing the material by:						
C4.1.7.2	Two-stage crushing	m³		7,500.0			
C4.1.7.5	Etc, for other plants (as stated by the Engineer and/or the Contractor)	m³		1,000.0			
Total Carr	ried Forward						ĺ

**CHAPTER C4.1** 

ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUN	т Т
	DEGGINI HOW	SINII		Q11	IVIIL	R	С
Brought F	orward						
	Moving and re-erecting the crushing, screening and related plants on the site						
C4.1.8.2	Two-stage crushing plant	No		1.0			
C4.1.8.4	Screening plant	No		1.0			
C4.1.8.5	Etc, for other plants (as stated by the Engineer and/or the Contractor)	No		1.0			
C4.1.9	Breaking down oversize material	$m^3$		100.0			
C4.1.10	Compacting the floor of the stockpile sites	m³		100.0			
C4.1.11	Constructing a platform for the stockpile site	$m^3$		100.0			
C4.1.12	Stockpiling the material						
C4.1.12.	Material from a producing plant	m³		4,600.0			
C4.1.12. 2	Material directly from the excavation	$m^3$		4,600.0			
C4.1.13	Removing surplus material from the stockpile	$m^3$		500.0			
C4.1.14	Removing the fill platform and temporary banks at the stockpile sites upon completion						
C4.1.14.	Fill platform	$m^3$		100.0			
C4.1.14.	Temporary banks	m³		100.0			
C4.1.15	Shaping and finishing the borrow pit and quarry areas, and the stockpile sites						
C4.1.15.	Shaping and finishing the borrow pit and quarry areas, and the stockpile sites:						
(a)	Borrow pits (list all borrow pits separately)	ha		1.0			
(c)	Quarries (list all quarries separately)	ha		1.0			
(d)	Stockpile sites	ha		1.0			
C4.1.16	Personnel						
C4.1.16.	Materials Manager	month		24.0			
Total Car	l ried Forward		1				
						1	

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUNT	
		<b>.</b>		ζ		R	С
Deallash F						.,	
Brought Fo	orward 						
C4.1.18	Compensation to landowners or legal occupants in respect of land acquisition, royalties and/or loss of crops						
C4.1.18.	Amount allowed, expenditure to be approved or instructed by the Employer	Prov Sum		1.0	200,000.0	200,000	00
C4.1.18.	Handling costs and profit in respect of item C4.1.18.1	%		200,000.0			
Total Car	ried Forward To Summary						
rotal Carl	neu roiwaiu 10 Summary						

**CHAPTER C4.2** 

ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUNT	•
	DEGGINI NEW	011.1	2.0	ζ		R	С
C4.2	CUT MATERIALS						
C4.2.2	Additional material investigations during the supplementary exploration						
C4.2.2.1	Cost of additional trial pits and/or drilling and laboratory testing	Prov Sum		1.0	150,000.0	150,000	00
C4.2.2.2	Handling costs and profit in respect of item	%		150,000.0			
C4.2.3	Excavation of materials in cuttings, materials obtained from						
C4.2.3.1	Soft excavation	m³		300.0			
C4.2.3.2	Boulder excavation class A	m³		300.0			
C4.2.3.3	Boulder excavation class B	m³		300.0			
C4.2.3.4	Hard excavation (other than by blasting)	m³		300.0			
C4.2.3.5	Hard excavation (by blasting)	m³		300.0			
C4.2.4	Excavating of materials in box cuts, material obtained from						
C4.2.4.1	Soft excavation	m³		2,700.0			
C4.2.4.2	Boulder excavation class A	m³		1,800.0			
C4.2.4.3	Boulder excavation class B	m³		300.0			
C4.2.4.4	Hard excavation (other than by blasting)	m³		300.0			
C4.2.4.5	Hard excavation (by blasting)	m³		300.0			
C4.2.7	Removal of unsuitable stable cut material to spoil						
C4.2.7.1	In layer thicknesses of 200 mm and less	m³		500.0			
C4.2.7.2	In layer thicknesses exceeding 200 mm	m³		100.0			
C4.2.8	Excavate material to spoil in sites designated by the Employer, material obtained from						
C4.2.8.1	Soft excavation, overburden and unsuitable material	m³		46,000.0			
C4.2.8.2	Boulder excavation class A	m³		23,000.0			
C4.2.8.3	Boulder excavation class B	m³		7600.0			
C4.2.8.5	Hard excavation (by blasting)	m³		300.0			
Total Carr	ied Forward						

**CHAPTER C4.2** 

ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUN	
	22001111011	31111		~.'		R	С
Brought F	orward						
	Breaking down oversize material	m³		300.0			
C4.2.12	Finishing the side slopes						
C4.2.12.							
1	Cuttings:						
(a)	In soft material	m²		23,000.0			
(b)	In boulder material class A and B	m²		5,000.0			
Total Car	ried Forward To Summary						

**CHAPTER C4.4** 

COMMERCIAL MATERIALS Commercial materials identified by the imployer from commercial, private or ther non-commercial suppliers Cavement layer material: Type G2 material Type G5A material Type G7 material Type G9 material Type G9 material Type G9 material Type G1 material Type G1 material Type G2 material Type G3 material Type G4 material Type G5 material Type G5 material Type G6 material Type G7 material Type G7 material Type G8 material Type G9 material Type G9 material Type G9 material Type G9 material	m³ m³ m³	LIC	13,000.0 16,000.0 12,500.0	RATE	AMOUNT R	С
commercial materials identified by the imployer from commercial, private or ther non-commercial suppliers  eavement layer material:  type G2 material  type G5A material  type G7 material  type G9 material  ill material in the earthworks:	m³ m³ m³		16,000.0		·	
Imployer from commercial, private or ther non-commercial suppliers  avement layer material:  ype G2 material  ype G5A material  ype G7 material  ype G9 material  ill material in the earthworks:	m³ m³ m³		16,000.0			
Type G2 material Type G5A material Type G7 material Type G9 material Till material in the earthworks:	m <sup>3</sup> m <sup>3</sup>		16,000.0			
ype G5A material ype G7 material ype G9 material ill material in the earthworks: lormal or coarse fill	m <sup>3</sup> m <sup>3</sup>		16,000.0			
ype G7 material ype G9 material ill material in the earthworks: lormal or coarse fill	m <sup>3</sup>					
ype G9 material ill material in the earthworks: lormal or coarse fill	m <sup>3</sup>		12,500.0	1		
ill material in the earthworks:  lormal or coarse fill						
lormal or coarse fill	_		13,000.0			
	_					
	m <sup>3</sup>		300.0			
cock fill	m³		600.0			
cost to procure commercial materials dentified by the Employer from private or on-commercial sources						
cost of procuring	Prov Sum		1.0	250,000.0	250,000	00
landling cost and profit in respect of item 4.4.3.1	%		250,000.0			
ementitious stabilising agents						
Cement	t		1,500.0			
ampling and material testing by a ommercial laboratory for the stabilisation esigns						
cost of sampling and material testing	Prov Sum		1.0	50,000.0	50,000	00
landling cost and profit in respect of item 4.4.7.1	%		50,000.0			
e: o	signs st of sampling and material testing ndling cost and profit in respect of item	signs st of sampling and material testing  Prov Sum ndling cost and profit in respect of item	signs st of sampling and material testing ndling cost and profit in respect of item	signs st of sampling and material testing ndling cost and profit in respect of item	signs st of sampling and material testing ndling cost and profit in respect of item	signs st of sampling and material testing ndling cost and profit in respect of item

**CHAPTER C4.5** 

		1	1	,		HAPTER C4.5	
ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUNT	
						R	С
C4.5	ALTERNATIVE MATERIALS						
C4.5.1	Additional material investigations						
C4.5.1.1	Cost of sampling and laboratory testing						
C4.5.1.2	Handling cost and profit in respect of item C4.5.1.1	Prov Sum		1.0	1,500,000.0	1,500,000	00
C4.5.3	Cost to procure alternative materials identified by the Employer	%		1,500,000.0			
C4.5.3.1	Cost of procuring	Prov Sum		1.0	100,000.0	100,000	00
C4.5.3.2	Handling cost and profit in respect of item C4.5.3.1	%		100,000.0			
Total Carr	ied Forward To Summary						

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUN	
					· · · <u>-</u>	R	С
C5.1	ROADBED						
C5.1.1	Roadbed construction and compaction						
C5.1.1.1	Compaction of in-situ material to 90% of MDD	$m^3$		13,500.0			
C5.1.2	Excavate material to spoil sites designated by the Employer						
C5.1.2.1	Excavate material to spoil from roadbed constrcution, material obtained from:						
(a)	Soft excavation	$m^3$		46,000.0			
(b)	Boulder excavation Class A	$m^3$		23,000.0			
(c)	Boulder excavation Class B	$m^3$		7,530.0			
(d)	Hard excavation (other than by blasting)	$m^3$		300.0			
(e)	Hard excavation (by blasting)	$m^3$		300.0			
C5.1.4	Removal of unsuitable material to spoil						
C5.1.4.1	In layer thicknesses of 200mm and less						
(a)	Stable material	$m^3$		150.0			
(b)	Unstable material	$m^3$		150.0			
C5.1.4.2	In layer thicknesses exceeding 200mm						
	Stable material	$m^3$		150.0			
	Unstable material	$m^3$		150.0			
Total Carr	ied Forward To Summary		<u> </u>				

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

ITE NA	DECODIDITION	LINUT	1.10	OTY		HAPTER C5.	
ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUN R	11 C
C5.2	FILL					1	+ -
	Compiling and implementing M&U plans						
	For fills more than 10,000.0 m <sup>3</sup>	No		8.0			
	Fill construction						
C5.2.2.1	Normal fill material in compacted layer thicknesses of 200 mm and less:						
(a)	Compacted to 90% MDD	$m^3$		70,000.0			
(b)	Compacted to 93% MDD	$m^3$		18,000.0			
(c)	Roller-pass compaction	$m^2$		60,000.0			
C5.2.2.3	Sand fill material in compacted layer thicknesses of 400 mm and less, compacted to 100% of MDD	$m^3$		4,000.0			
C5.2.2.4	Rock fill material all as per Clause A5.2.7.6	$m^3$		600.0			
C5.2.2.5	Rock fill embankment toe	$m^3$		3,000.0			
C5.2.2.6	Sand filter layer	$m^3$		2,000.0			
C5.2.2.7	Drainage blanker layer	$m^3$		500.0			
C5.2.3	Side-cut to fill compacted to 93% of MDD in compacted layer thicknesses of 200 mm and less	m³		2,000.0			
C5.2.5	Fill in sidewalk						
C5.2.5.1	Fill material in sidewalk compacted to 93% of MDD	m <sup>3</sup>		4,500.0			
C5.2.6	Fill material in shoulder widening						
C5.2.6.1	Fill material in shoulder widening compacted to 93% of MDD	m³		2,000.0			
C5.2.9	Removal of oversize material	$m^3$		300.0			
C5.2.10	Finishing off rock fill slopes						
C5.2.10.1	Finishing off rock fill slopes with soft material	$m^3$		500.0			
C5.2.11	Finishing off fill slopes, medians and interchange areas						
C5.2.11.1	Fill slopes	m²		14,000.0			
Total Carr	ied Forward To Summary						

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUN	
I I EIVI	DESCRIPTION	UNIT	LIC	QII	KAIE	R	C
C5.3	ROAD PAVEMENT LAYERS						+
C5.3.1	Compiling and implementing M&U plans for the construction of all the pavement layers	No.		8.0			
C5.3.2	Construction of pavement layers						
C5.3.2.1	Construction of layers using conventional construction methods:						
(a)	Natural gravel compacted to (250 mm G10) compacted to 90% of MDD	m³		21,500.0			
(b)	Lower selected subgrade layer (150 mm G9) compacted to 93% of MDD	m³		13,000.0			
(c)	Upper selected subgrade layer (150 mm G7) compacted to 95% of MDD	m³		12,500.0			
(d)	Gravel base layer (chemically stabilised), (150 mm C3) compacted to 97% of MDD	m³		16,000.0			
(e)	G2 crushed stone base layer (layer thickness indicated) compacted to 88% of AD or 102% MOD AASHTO	m³		13,000.0			
C5.3.9	Construction of a trial section						
C5.3.9.1	Construction of a trial section using conventional methods of construction						
(a)	Stabilised gravel layer (150 mm C3) trial section	m³		1,000.0			
(b)	Crushed stone subbase layer (150 mm G2) trial section	m³		1,000.0			
C5.3.10	Removal of a completed trial section						
C5.3.10.1	Stabilised layer	$m^3$		1,000.0			
C5.3.10.2	Crushed stone layer	m³		1,000.0			
Total Carr	ied Forward To Summary						

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

	Ţ					HAPTER C5.	
ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUN	
C5.4	STABILISATION					R	С
	Chemical stabilisation						
C5.4.2.1	Chemical stabilisation (150 mm) of pavement layers (C3)	m³		16,000.0			
C5.4.5	Cementitious stabilisation agents for pavement layers						
C5.4.5.1	Addition of cementitious stabilisation agents (specify agent separately) for pavement layers						
(a)	Cement (for pavement layer)	t		1,300.0			
C5.4.10	Provision and application of water for						
	curing	kľ		3,500.0			
							$\perp$
Total Carr	ied Forward To Summary						

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUN'	T
						R	С
C7.3	REMOVAL AND REINSTATEMENT OF EXISTING CONCRETE LAYERS						
C7.3.1	Removal of concrete in rehabilitation work						
C7.3.1.1	Concrete without reinforcing	$m^3$		1500.0			
C7.3.1.2	Reinforced concrete	$m^3$		2,500.0			
Total Carr	ied Forward To Summary						

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUN	
I I EIVI	DESCRIPTION	JINIT	LIC	QII	IVATE	R	С
C8.1	PRIME COAT					- 11	+
	Prime coat:						
C8.1.1.3	Inverted bitumen emulsion	1		65,000.0			
				55,555.5			
Total Car	 ried Forward To Summary	1					+
i olai Gall	Tour orward to Summary						

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

	D=225.5=12			<u></u>		HAPTER C9.	
ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUN R	II c
C9.1	ASPHALT LAYERS					IX.	
C9.1.1	Asphalt mix designs:						
C9.1.1.1	Stone skeletal mixes:						
(a)	Continuously graded base or surfacing (state binder type and level of design)	Sum		1.0			
C9.1.2	Construction of trial sections						
C9.1.2.1	Asphalt layers (state mix type, layer thickness and placing technique (hand/paver))	m²		2,000.0			
C9.1.2.2	Removal of trial section where so instructed by the Engineer	m²		2,000.0			
C9.1.3	Application of bond coat						
C9.1.3.1	Stable grade 30% net bitumen emulsion as specified. Applied with a calibrated distributer	l		25,000.0			
C9.1.5	Asphalt surfacing						
C9.1.5.1	New construction						
(a)	Stone skeletal mix - continuously graded as defined (state layer thickness, binder type, design class/level and placing technique)	m²		95,000.0			
C9.1.10	Variation rates						
C9.1.10.1	Bitumen (35/50 pen)	t		40.0			
C9.1.13	Coring of asphalt layers						
C9.1.13.1	100 mm diameter	No		250.0			
C9.1.14.2	Profiler Surveys utilising equipment as specified - Base layers and surfacing layers	km		8.0			
C9.1.16	Work undertaken in accordance with a Product Performance Guarantee System						
C9.1.16.1	Provision of a Performance Guarantee	Sum		1.0			
Total Carr	ied Forward To Summary						+
i Ulai Call	ieu i orwaiu 10 Summaly						

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

## **CHAPTER C11.9**

TOTAL Carried Forward To Summary  Test  DESCRIPTION  DESCRIPTION  UNIT LIC QTY RATE  AMOUNT  R C  QTY RATE  AMOUNT  R C  R C  R C  R C  R C  R C  R C  R						Сп	APTER C11.9	
C11.9.1 FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS C11.9.1 Finishing the road and road reserve: C11.9.1.2 Single carriageway road km 8.0 C11.9.2 Treatment of old roads and temporary deviations: C11.9.2.1 Conventional construction methods km 2.0	ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE		
RESERVE AND TREATING OLD ROADS C11.9.1 Finishing the road and road reserve: C11.9.1.2 Single carriageway road km 8.0 C11.9.2 Treatment of old roads and temporary deviations: C11.9.2.1 Conventional construction methods km 2.0							R	С
C11.9.1.2 Single carriageway road km 8.0  C11.9.2 Treatment of old roads and temporary deviations:  C11.9.2.1 Conventional construction methods km 2.0	C11.9	RESERVE AND TREATING OLD ROADS						
C11.9.2.1 Treatment of old roads and temporary deviations: C11.9.2.1 Conventional construction methods km 2.0	C11.9.1	Finishing the road and road reserve:						
deviations: C11.9.2.1 Conventional construction methods km 2.0	C11.9.1.2	Single carriageway road	km		8.0			
	C11.9.2	Treatment of old roads and temporary deviations:						
Total Carried Forward To Summary	C11.9.2.1	Conventional construction methods	km		2.0			
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
Total Carried Forward To Summary								
. etc. econoci, et maior le evillimary	Total Carr	ied Forward To Summary						1

## Contract No.: ZNB00771/00000/00/PMR/INF/21/T

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

## **CHAPTER C12.10**

ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUN <sup>-</sup>	Γ
						R	С
C12.10	HARD EXCAVATION BY BLASTING						
C12.10.1	Excavation in hard rock using controlled blasting techniques	m³		500.0			
Total Carr	ied Forward To Summary						

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

## **CHAPTER C20.1**

			I			APTER C20.1	
ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUNT	
C20.1	TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP					R	С
C20.1.2.2	Employer's contribution to other special tests						
(a)	Specialised Testing	PC Sum		1.0	2,400.000.0	2,400,000	00
(b)	Handling costs and profit in respect of item C20.1.2.2(a)	%		2,400,000.0			
Total Carr	ied Forward To Summary						

# PROVINCE OF KWAZULU-NATAL DEPARTMENT OF TRANSPORT

CONTRACT NO. ZNB00771-00000-00-PMR-INF-21-T: THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

## **SCHEDULE A: ROADWORKS**

## **SUMMARY OF SECTIONS**

SECTION	DESCRIPTION	AMOUNT
C1.2	GENERAL REQUIREMENTS AND PAYMENT	R
C1.3	CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS	R
C1.4	FACILITIES FOR THE ENGINEER	R
C1.6	CLEARING AND GRUBBING	R
C1.7	LOADING AND HAULING	R
C2.1	GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES	R
C4.1	BORROW MATERIALS	R
C4.2	CUT MATERIALS	R
C4.4	COMMERCIAL MATERIALS	R
C4.5	ALTERNATIVE MATERIALS	R
C5.1	ROADBED	R
C5.2	FILL	R
C5.3	ROAD PAVEMENT LAYERS	R
C5.4	STABILISATION	R
C7.3	REMOVAL AND REINSTATEMENT OF EXISTING CONCRETE LAYERS	R
C8.1	PRIME COAT	R
C9.1	ASPHALT LAYERS	R
C11.9	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	R
C12.10	HARD EXCAVATION BY BLASTING	R
C20.1	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	R
TOTAL CARRI	ED FORWARD TO SUMMARY	R

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

SCHEDULE E: EXPANDED PUBLIC WORKS PROGRAMME

## SECTION E

E EXPANDED PUBLIC WORKS PROGRAMME (EPWP)	ATE AMOUNT R
	- K
E6.01 Provision of training venue facility, including the cost of transport the learners to and from this facility  L/Sum  1.0	
E6.02 Training of learners employed by the contractor or by the Targeted Enterprise subcontractors:	
(a) Generic Skills:	
(a.i) Training costs Prov Sum 1.0 500	0,000.0 500,000
(a.ii) Handling costs and profit in respect of subitem E6.02(a)(i) above.     500,000.0	
(b) Entrepreneurial skills:	
(b.i) Training costs Prov Sum 1.0 500	0,000.0 500,000
(b.ii) Handling costs and profit in respect of subitem E6.02(b)(i) above.   **Source of Subitem 1:00,000.0	
(c) Construction skills:	
(c.i) Training costs Prov Sum 1.0 300	0,000.0 300,000
(c.ii) Handling costs and profit in respect of subitem 86.02(c)(i) above. 300,000.0	
E6.03 Payments associated with the NYS programme:	
(a) Employment of NYS workers Prov Sum 1.0 450	0,000.0 450,000
(b) Provision of tools and apparel for the NYS workers Prov Sum 1.0 100,	,000.00 100,000
(c) Handling cost and profit in respect of subitem E6.03(a) and (b) above 550,000.0	
otal Carried Forward	

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION SCHEDULE E: EXPANDED PUBLIC WORKS PROGRAMME

#### SECTION E

	SECTION E						
ITEM	DESCRIPTION	UNIT	LIC	QTY	RATE	AMOUNT	
						R	С
Brought Fo	orward						
(d)	Training of NYS workers:						
(d.i)	Provision of training for NYS workers	Prov Sum		1.0	300,000.0	300,000	00
(d.ii)	Handling costs and profit in respect of subitem subitem E6.03(d)(i) above	%		300,000.0			
(e)	Liaison with the Employer's project manager and the training service provider:						
(e.i)	Liaison conducted by the construction manager	hr		300.0			
(e.ii)	Liaison conducted by senior site foreman	hr		450.0			
Total Carr	ied Forward To Summary						

# PROVINCE OF KWAZULU-NATAL DEPARTMENT OF TRANSPORT

CONTRACT NO. ZNB00771-00000-00-PMR-INF-21-T: THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

## SCHEDULE E: EXPANDED PUBLIC WORKS PROGRAMME: EPWP: E

## **SUMMARY OF SECTIONS**

SECTION DESCRIPTION		AMOUNT
E	TOTAL CARRIED FORWARD TO TENDER SUMMARY	R

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION SCHEDULE F: SMALL CONTRACTOR DEVELOPMENT

#### SECTION F

						SECTION F	
ITEM	M DESCRIPTION UNIT LIC QTY		RATE	AMOUN	Γ		
						R	С
F	SMALL CONTRACTOR DEVELOPMENT						
F10.1	Procurement of Targeted Enterprises:						
(a)	Management and execution of Targeted Enterprise procurement process:						
(a.i)	Procurement process for the appointment of CIDB contractor grading designation 1 Targeted Enterprise subcontractor (100 copies of the tender document required for each individual tender)	No		120.0			
(a.ii)	Procurement process for the appointment of CIDB contractor grading designation 2 Targeted Enterprise subcontractor (80 copies of the tender document required for each individual tender)	No		120.0			
(a.iii)	Procurement process for the appointment of CIDB contractor grading designation 3 Targeted Enterprise subcontractor (60 copies of the tender document required for each individual tender)	No		120.0			
(a.iv)	Procurement process for the appointment of CIDB contractor grading designation 4 Targeted Enterprise subcontractor (50 copies of the tender document required for each individual tender)	No		120.0			
(a.v)	Procurement process for the appointment of CIDB contractor grading designation 5 Targeted Enterprise subcontractor (40 copies of the tender document required for each individual tender)	No		120.0			
(a.vi)	Procurement process for the appointment of CIDB contractor grading designation 6 Targeted Enterprise subcontractor (40 copies of the tender document required for each individual tender)	No		120.0			
F10.2	Construction Works for Targeted Enterprise subcontractors:						
Total Carr	Fotal Carried Forward						

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION SCHEDULE F: SMALL CONTRACTOR DEVELOPMENT

## SECTION E

						SECTION E	
ITEM	DESCRIPTION	UNIT	LI	QTY	RATE	AMOUNT	
			С			R	С
Brought Forward							
(a)	Payments associated with the construction Works carried out by Targeted Enterprise subcontractors	Prov Sum		1.0	57,411,536.0	57,411,536	00
(b)	Handling costs and profit in respect of subitem F10.02(a)	%		57,411,536.0			
(c)	Supply of materials and small construction equipment to assist Targeted Enterprise subcontractors	Prov Sum		1.0	1,200,000.0	1,200,000	00
(d)	Handling costs and profit in respect of subitem F10.02(c)	%		1,200,000.0			
(e)	Management of the Targeted Enterprise subcontractors	Month		24.0			
F10.3	Training of Targeted Enterprise subcontractors:						
(a)	Generic Skills						
(a.i)	Training costs	Prov Sum		1.0	200,000.0	200,000	00
(a.ii)	Handling costs and profit in respect of subitem F10.03(a)(i)	%		200,000.0			
(b)	Entrepreneurial skills:						
(b.i)	Training costs	Prov Sum		1.0	200,000.0	200,000	00
(b.ii)	Handling costs and profit in respect of subitem F10.03(b)(i)	%		200,000.0			
(c)	Construction skills:						
(c.i)	Training costs	Prov Sum		1.0	200,000.0	200,000	00
(c.ii)	Handling costs and profit in respect of subitem F10.03(c)(i)	%		200,000.0			
Total Carried Forward To Summary							

# PROVINCE OF KWAZULU-NATAL DEPARTMENT OF TRANSPORT

CONTRACT NO. ZNB00771-00000-00-PMR-INF-21-T: THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

## SCHEDULE F: SMALL CONTRATCOR DEVELOPMENT: F

## **SUMMARY OF SECTIONS**

SECTION	TION DESCRIPTION	
F	TOTAL CARRIED FORWARD TO TENDER SUMMARY	R

## PROVINCE OF KWAZULU-NATAL DEPARTMENT OF TRANSPORT

CONTRACT NO. ZNB00771-00000-00-PMR-INF-21-T: THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING AND DRAINAGE STRUCTURES ON MAIN ROAD 402, KWAMNCANE (KM 0+000 TO KM 7+540) PHASE 2 IN THE PIETERMARITZBURG REGION

#### **TENDER SUMMARY**

	DESCRIPTION	AMOUNT	
Totals of Bill of Quantities brought forward:			
Schedule A:	Roadworks (b/f from page C58)		R
Schedule E:	Schedule E: Expanded Public Works Programme (b/f from page C61)		R
Schedule F:	Small Contractor Development (b/f from page C64)		R
	SUB	R	
	Add: Contingencies (10% of SUBT	R	
	SUB <sup>-</sup>	R	
Add: Co	ntract Price Adjustment (10% of SUBT	R	
SUBTOTAL 3			R
Add: VAT (15% of SUBTOTAL 3)			R
TOTAL CARRIED FORWARD TO FORM OF OFFER C1.1.1			R

Signed on behalf of the Tenderer:	(Signature)
Date:	
Tenderer's Name: (Com	pany Name)

## **DISCLAIMER**

Kindly note that the responsibility lies with Tenderer to check the tender document and the tender addenda (if issued) to verify that all the information is correct and all changes have been incorporated as no claims will be entertained in this regard afterwards. Accordingly, we confirm that the hard copies of the original tender document and the tender addenda are to be regarded to contain the correct items and quantities.

## C3: SCOPE OF WORK

	TABLE OF CONTENTS	PAGE
	C3.1 STANDARD SPECIFICATIONSC3.2 PROJECT SPECIFICATIONS	C67 C67
	PART A: GENERAL	
	DESCRIPTION OF THE WORKS	C68 C76
	PROCUREMENT	C77
	CONSTRUCTION	C77
5.	MANAGEMENT	C78
	C3.3 PARTICULAR SPECIFICATIONS	
	PART C: ENVIRONMENTAL MANAGEMENT SPECIFICATION	C82
	PART D: DAYWORKS	C88
	PART E: OHSA 1993 HEALTH AND SAFETY SPECIFICATION	C91
	PART F: REQUIREMENTS OF THE EXPANDED PUBLIC WORKS	
	PROGRAMME (EPWP)	C100
	PART G: SMALL CONTRACTOR DEVELOPMENT	C134

## **C3.1: STANDARD SPECIFICATIONS**

The Standard Specifications on which this contract is based are the 'Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020'.

CONTRACT No.: ZNB00771-00000-00-PMR-INF-21-T

## **C3.2: PROJECT SPECIFICATIONS**

The Project Specifications, consisting of two parts, form an integral part of the Contract and supplement the Standard Specifications.

Part A contains a general description of the Works, the Site and the requirements to be met.

Part B contains variations, amendments and additions to the Standard Specifications and, if applicable, the Particular Specifications.

In the event of any discrepancy between a part or parts of the Standard or Particular Specifications and the Project Specifications, the Project Specifications shall take precedence. In the event of a discrepancy between the Specifications (including the Project Specifications) and the drawings and / or the Schedule of Quantities, the discrepancy shall be resolved by the Employer's Agent before the execution of the work under the relevant item.

The Standard Specifications, which form part of this contract, have been written to cover all phases of work normally required for road contracts, and they may therefore cover items not applicable to this particular contract.

#### C3.2: PROJECT SPECIFICATIONS

PART A: GENERAL

#### 1. DESCRIPTION OF THE WORKS

#### 1.1 Employer's objectives

Main Road 402 forms a link between Main Road 7-2 and Main Road 390. It also provides an alternative to the Route 617. The upgrade of Main Road 402 to blacktop will attract traffic to the Msunduzi Area and the additional road capacity will accommodate the anticipated increased traffic volumes which will ensure an efficient transportation network.

CONTRACT No.: ZNB00771-00000-00-PMR-INF-21-T

The employer's intends on upgrading Main Road 402 to improve access into the Kwamncane area which will facilitate safer, more efficient travel for road users and those who commute daily. Incorporated into the scope of the upgrade is the implementation of a new stormwater drainage system that will ensure the new road infrastructure is free draining and controlled which will reduce long term road maintenance costs.

The Employer's objectives in delivering public infrastructure and services for this project include the provision of temporary work opportunities to the local community through the application of labour-intensive methods to the maximum extent feasible, in accordance with the Expanded Public Works Programme (EPWP) Guidelines. Labour-intensive works comprise the activities such as those described in SANS 1921-5, Earthworks activities which are to be performed by hand, and its associated specification data. Such works shall be constructed using local workers who are temporarily employed in terms of this Scope of Work. Requirements of the Expanded Public Works Programme (EPWP) are contained in Part F of section C3.3 Particular Specifications. These requirements include provisions for the National Youth Service programme. Requirements in terms of Government's initiatives for broad based black economic empowerment with respect to small contractor development are contained in Part G of section C3.3 Particular Specifications

#### 1.2 Location of the Works

The project is located as shown on the locality plan bound into this document in Section C4.1 of the Site Information on page C240. The portion of the road under consideration is from km 0+000 to km 7+540.

#### 1.3 Overview of the Works

The project entails the upgrading of Main Road 402 from an existing gravel road to a blacktop standard. The road will be built to a Type 3 KZN Department of Transport Road.

## 1.4 Extent of the Works

The Works to be carried-out for the construction of Main Road 402 includes:

- (a) Establishment on site, including the clearing, grubbing and fencing of the site yard.
- (b) Clearing and grubbing of the road prism
- (c) Proving, exposing and relocation of various electricity, water and sewer services.
- (d) Accommodation of traffic.
- (e) The construction of Bulk Earthworks.
- (f) The demolishing and removal of existing stormwater structures
- (g) The installation of sub surface drainage structures including prefabricated concrete pipe culverts and subsoil drainage.
- (h) Construction of the selected, sub base and base course layers.
- (i) The construction of concrete drainage structures including a kerb and channel combination and concrete lined V-drains.
- (j) Construct 40mm double seal.
- (k) Construction of erosion protection measures such as reno mattresses, stone pitching, etc.
- (I) Installation of guardrails.

- (m) Finishing and cleaning up of the road and road reserve.
- (n) Continuous quality control over materials and workmanship, and compliance with the Particular Specifications with regard to environmental management, occupational health and safety, EPWP requirements and small contractor development during all the above construction activities.
- (o) Removal of all site establishment facilities and constructional plant on completion of the Works.
- (p) Making good of any defects during the Defects Liability Period.

## 1.5 Detailed description of the Works

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

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

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

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

#### 1.5.1 Access to the Site

The Contractor shall only receive access to the site once the permit to do construction work in terms of Regulation 3 (1) and (2) of the Construction Regulations 2014 is issued to the Contractor and the documentation referred to in Clause 5.3.1 and 5.3.2 of the Contract Data is approved.

Through the duration of this contract, District Road 1126 and any Employer provided borrow pits shall be shared with other contractors engaged by the KwaZulu-Natal Department of Transport whose construction activities may affect access from time to time. The Contractor shall therefore be required to liaise on an ongoing basis with these other contractors with respect to access related matters throughout the duration of the contract.

Service relocations form part of the Contractor's Scope of Work and therefore, the Contractor will be required to liaise with service owners regarding the relocation of such services that may obstruct the execution of the Works.

## 1.5.2 Demolition work

The Contractor is not required to carry out any demolition work to existing structures.

#### 1.5.3 Spoiling of surplus material

Surplus material shall be spoiled in designated areas approved by the Employer's Agent. The spoil material shall be disposed of in accordance with subclause A4.1.7.2(I) of the COTO Draft Standard specifications (DS), October 2020.

#### 1.5.4 Quantities

The Road works for Main Road 402 will consist of:

•	150mm G2	Graded crushed stone base compacted to 102% modified AASHTO density.
•	150mm C3	Cemented natural gravel subbase compacted to 97% modified AASHTO density. UCS>0,5 MPa @ 97% modified AASHTO density.
•	150mm G7	Natural gravel selected layer compacted to 95% modified AASHTO density. CBR>15 @ 93% modified AASHTO density.
•	150mm G9	Natural gravel selected layer compacted to 93% modified AASHTO density. CBR>7 @ 93% modified AASHTO density.
•	250mm G10	Natural gravel compacted to 90% modified AASHTO density. CBR>3 @ 90% modified AASHTO density.

The approximate leading quantities for the permanent Works to be constructed are as follows:

Description	Source	Approximate quantity
Earthworks (Cut to fill)	Road prism / borrow pit	87 830 m <sup>3</sup>
Earthworks (Cut to spoil)	Road prism / borrow pit	75 200 m <sup>3</sup>
Gravel Layerworks (G9, G7 and C3)	Commercial source	35 000 m <sup>3</sup>
Crushed Stone Base	Commercial source	11 000 m <sup>3</sup>
40mm Continuously Graded Asphalt Surfacing	Commercial source	95 000 m <sup>2</sup>
2 x 3.0 m x 3.0 m Culvert	Commercial source	20 m

#### 1.5.5 Material investigations

No materials information is furnished in this document.

#### 1.5.6 Material sources, spoil and stockpile areas

Where possible, the contractor shall source material from within 20km of the site utilizing local suppliers. The material which may be sourced locally:

- Cement;
- River sand (Coarse Grade Nom. 4.75mm); and
- 20mm sized crushed stone aggregates.

Spoil areas and areas for the temporary stockpiling of construction materials shall be determined and agreed on site in conjunction with the Employer's Agent, the PLC (where applicable) and the local communities (where applicable). The Contractor shall be permitted to use only these agreed spoil and stockpile areas, which shall be landscaped and vegetated on completion of the work.

#### 1.5.7 Accommodation of traffic

The accommodation of traffic forms an integral part of the Contract.

The contractor shall provide flagmen to direct and control traffic and provide signs and barriers.

All accommodation of traffic and safety measures shall be in accordance with South African Road Traffic Signs Manual (SARTSM- latest edition).

#### 1.5.8 Accommodation of other contractors

In order to ensure the smooth running of all contracts, the Contractor shall be required to liaise with, cooperate with and accommodate all other contractors working on the site and borrow pits, particularly when such other contractors are working in the same area simultaneously.

Other contractors working on the site shall include:

All contractors involved in construction within the current contract i.e. All sub-contractors, emerging contractors, Eskom sub-contractors and Msunduzi Local Municipalities and uMgungundlovu District Municipality.

#### 1.5.9 Existing services

The Contractor shall make himself acquainted with the position of all existing services before any excavation or other work likely to affect the existing services has commenced. It is also expected that unknown domestic services crossings requiring relocation or protection may be encountered along the route as the work proceeds. The Contractor shall make every effort to establish the location of these services in any area prior to excavations commencing in that area. Such efforts shall include diligent enquiry and discussions with adjacent landowners, visual surface inspection and exploratory trenching investigation as necessary.

The Contractor will be held responsible for any damage to known existing services caused by or arising out of his operations and any damage shall be made good at his own expense. Damage to unknown services shall be repaired as soon as possible and liability shall be determined on site when such damage should occur.

## 1.5.10 Employer's Agent's site office and laboratory

The Contractor shall be required to provide furnished site office facilities, laboratory facilities, ablution facilities, and carports for the Employer's Agent at a site located in close proximity to the Contractor's office establishment and to the Works. A possible area for such site establishment shall be indicated at the Site Clarification Meeting.

#### 1.5.11 Climate

The road is located in a high summer rainfall region with a mean annual precipitation of 850mm.

#### 1.5.12 Environment

The Contractor's attention is called to clause A1.2.3.3 of Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 and to the requirements of Part C: Environmental Management Specification contained in section C3.3 Particular Specifications.

#### 1.5.13 Labour

A Project Liaison Committee (PLC) has been established and is a vital means of communication between all parties involved with the project. The composition of the PLC comprises representatives of the Employer, the Employer's Agent and formal structures within the community.

The Contractor shall make use of these communication channels, and shall appoint from amongst his site personnel a responsible person to participate in the affairs of the PLC, and this representative will be also required to attend the monthly PLC meetings.

It is mandatory that the Contractor shall interact with the community via proactive project liaison and project participation by its leaders and constituted organisations and forums, as well as through the employment of its people, and these activities shall constitute essential facets of the project.

Local labour is to be used and the employment of such labour is to be done in conjunction with the PLC. The PLC has formed a Labour Committee who shall assist the Contractor with the recruitment of local labourers to ensure an equal distribution of people employed between the various Amakhosi in the area.

## 1.5.14 Labour-enhanced construction methods

Labour enhanced construction shall mean the economically efficient employment of as great a portion of local labour as is technically feasible to produce a standard of construction as demanded by the specifications with completion by the Due Completion Date, where local labour is the primary resource, supported by plant for activities that cannot be carried out feasibly by labour only.

Labour enhanced construction activities are to be planned as task-based work as a general rule. A task means a fixed quantity of work, to be performed to a clearly defined quality. Task-based work means work in which a worker is paid a fixed rate for performing a task, which is clearly defined in terms of quantity and quality. Typically, a particular task can be completed within a working day.

Appropriate portions of the Works included in the Contract shall be carried out using labour enhanced construction methods.

Except where the use of equipment is essential in order, in the opinion of the Employer's Agent, to meet the specified requirements by the Due Completion Date, or where the use of equipment is essential as a result of occupational health and safety considerations, the Contractor shall use only hand tools and equipment in the construction of those portions of the Works that are required in terms of these Project Specifications to be constructed using labour enhanced construction methods.

portions of the Works shall be constructed utilizing only the local labour of the Contractor and/or the local labour of subcontractors, supplemented by the Contractor's key personnel to the extent necessary and unavoidable, unless otherwise instructed by the Employer's Agent and in accordance with the further provisions of the relevant sections of Part B of the Project Specifications.

Subject to considerations of occupational health and safety, and subject to the nature of the in situ materials being such that they can be excavated efficiently by hand, the portions of the Works to be carried out under supervision using labour enhanced construction methods are listed under the labour enhanced item numbers as per COTO -Draft Standard(DS) October 2020 specifications in the bill of quantities, include, but are not limited to, the following:

- Erection of the Contractor's and Employer's Agent's site establishment facilities;
- Provision of domestic services at the site establishment facilities;
- Provision of flagmen and labour for erecting traffic accommodation facilities;
- Clearing of the Site:
- Excavation for structures and open drains up to 1,5 m deep where the depth of the water table permits such excavation to be carried out safely, and the subsequent backfilling thereof;
- Bedding, selected fill, backfilling and compaction of all trenches for prefabricated culverts irrespective of depth, but assisted by mechanical compaction equipment in order to achieve the specified densities;
- Transportation and spoiling of all trench materials, where the disposal site is located within 20 metres of the source;
- Mixing and placing of concrete for the channel and backing to the prefabricated kerbs;
- Mixing and placing of concrete for concrete lined drains and sidewalks;
- Mixing and placing of concrete for minor drainage structures and road furniture structures;
- Mixing and placing of concrete for concrete edge beams at gravel road access points;
- Installation of prefabricated kerbs;
- Construction of all brickwork required for drainage structures and manholes;
- Erection of falsework and formwork:
- Fixing of reinforcement;
- Spreading of offloaded earthworks materials to the extent scheduled;
- Spreading of offloaded pavement layers materials to the extent scheduled;
- Spreading of stabilising agent;
- Maintenance patching of surfacing;
- Slurry seal surfacing:
- Excavation for and construction of stone pitching, and subsequent backfilling;
- Excavation for and construction of gabion boxes and mattresses, and subsequent backfilling;
- Dismantling / erection of fences;
- Excavation and subsequent backfilling for guardrail;
- Dismantling / erection of guardrail;
- Excavation and subsequent backfilling for road signs;
- Dismantling / erection of road signs;
- Spreading of topsoil;
- Planting of grass cuttings, grass sodding and hand sowing of grass seeds; and
- Cleaning and tidying up of the Site.

In respect of those portions of the Works which are not listed above, the construction methods adopted and the equipment utilized shall be at the discretion of the Contractor, provided always that the construction methods adopted and the equipment utilized by the Contractor are appropriate in respect of the nature of the Works to be executed and the standards to be achieved in terms of the Contract.

## 1.6 Temporary Works

The Temporary Works required under this Contract shall include the traffic accommodation measures implemented, the provision of drainage control, falsework and formwork during the construction of the minor

drainage structures, and the provision of any scaffolding or temporary propping used during the erection of the road signs.

#### 1.7 Maintenance of the Works during the construction period

The Contractor shall take note of the various requirements of the General Conditions of Contract 2015 and the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 with respect to the care and protection of the Works.

The handing-over of the road reserve for this contract is described in clause A1.2.3 of Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020. The Contractor shall be responsible for maintaining this portion of the road from the date of hand-over until the issue of the Certificate of Practical Completion.

#### 1.8 Testing of materials

A prime cost sum has been allowed in chapter 20 of the Bill of Quantities for all acceptance control testing laboratory work to be carried out by the Employer's Agent using the laboratory facilities which may include and/or commercial laboratory facilities.

The Contractor shall carry out at his own cost the required process control testing as specified in terms of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

## 1.9 Power supply and other services

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

#### 1.10 Construction in confined areas

It may be necessary for the Contractor to work within confined areas. Except where provided for in the specifications, no additional payment shall be made for work done in restricted areas. In certain places the width of the fill material and pavement layers may decrease to zero and the working space may be confined. The method of construction in these confined areas largely depends on the Contractor's constructional plant. However, the Contractor shall note that, unless otherwise provided for in terms of the scheduled payment items in the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 or these project specifications, measurement and payment shall 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 methods and for all difficulties encountered when working in confined areas and narrow widths, and at or around obstructions, and that no extra payment shall be made nor shall any claim for additional payment be considered in such cases.

## 1.11 Contractor's campsite (Project specific)

Possible locations for a campsite shall be pointed out at the clarification meeting. (Project Specific Clarification meetings)

The Contractor shall make his own arrangements for the provision of his campsite and housing for construction personnel but the chosen site shall be subject to the approval of the Employer's Agent, the local authorities and, where applicable, the Project Liaison Committee (PLC) associated with the project.

The standard of the Contractor's camp, offices, accommodation, ablution, and other facilities must comply with the requirements of all local authority, environmental and industrial regulations concerned. In establishing and maintaining his campsite, due cognisance is to be taken of the requirements of clause A1.3.3 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

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

The Contractor shall particularly note that there is a high risk of theft, vandalism and damage to property in this area and strict security will be required for all plant, establishment, temporary works and partially completed works. The Contractor shall be responsible for providing security for all plant, establishment, temporary works and partially completed works. No separate payment shall be made for the provision of such security since full compensation for these costs shall be deemed to be included in the amount tendered for item C1.3.1.3 (The contractor's general obligations: Time-related obligations).

#### 1.12 Additional requirements for construction activities

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

The Contractor's tendered rates shall include full compensation for all costs which may arise from the construction and maintenance of deviations and construction under traffic. No claim for additional costs which may arise from these methods of traffic accommodation and no additional payment owing to inconvenience as a result of the Contractor's method of working shall be considered.

#### 1.13 Construction programme

The Contractor shall submit a detailed time programme in accordance with clause 5.6.2 of the General Conditions of Contract 2015, clause A1.2.7 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

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

- (a) The whole of the Works (and the portions of the Works if completion in portions is required) shall be completed within the time period(s) stated (refer to the Contract Data in section C1.2.2).
- (b) Working days lost due to abnormal rainfall shall be treated as set out in clause A1.2.3.4 (b)
- (c) Allowance shall be made for non-working days and special non-working days (refer to the Contract Data in section C1.2.2).
- (d) Construction activities must comply with all the specified environmental requirements including clause A1.2.3.3 of Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 and the requirements of Part C: Environmental Management Specification contained in section C3.3 Particular Specifications.
- (e) Construction activities must comply with all the specified health and safety obligations including the requirements of Part D: OHSA 1993 Health and Safety Specification contained in section C3.3 Particular Specifications.
- (f) Strict control of access to and from local public roads shall be required when construction vehicles, plant or equipment leave or enter the site.
- (g) Throughout the contract period traffic must be accommodated through the site and all other contractors engaged on the construction of identified roads must be accommodated.
- (h) The Contractor's programme of work shall take due cognisance of risks by limiting the duration of the exposure of the various construction elements to natural phenomena.

C74

PRELIMINARY CONSTRUCTION PROGRAMME

## **NOT APPLICABLE**

#### 2. DRAWINGS

The drawings that form part of the Tender documents are issued on a CD and shall be used for Tender purposes only.

The Contractor will be supplied with three complete sets of A0 paper print drawings, and one set of drawings on a CD. These A0 paper prints and CD are issued free of charge and the Contractor shall make any additional copies he may require at his own cost.

Any information in the possession of the Contractor which the Employer's Agent requires to complete the asbuilt drawings shall be supplied to the Employer's Agent before a certificate of completion will be issued.

Only figured dimensions shall be used and drawings shall not be scaled unless so instructed by the Employer's Agent. The Employer's Agent will supply all figures / dimensions omitted from the drawings.

The levels given on the drawings are subject to confirmation on site, and the Contractor shall submit all levels to the Employer's Agent for confirmation before he commences any structural construction work. The Contractor shall also check all clearances given on the drawings and shall inform the Employer's Agent of any discrepancies.

DRAWING NO.
C41964 – C41971
C41985 – C41988
C41927 – C41982
C41989 – C41996
C45220 – C45223
C45224 – C45235
STC4148/01 - STC4148/04
STC4148/05 - STC4148/06

#### 3. PROCUREMENT

The contractor shall procure goods and services under provisional sums and prime cost sums according to the Employer's standards.

#### 4. CONSTRUCTION

#### 4.1 Applicable SANS 2001 standards for construction work

All construction work must conform with the relevant SABS or SANS specifications referred to in the 'Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020', or in Section C3.2 Project Specifications, Part B: Amendments to the Standard Specifications, of this document.

#### 4.2 Applicable national and international standards

All construction work must be undertaken in accordance with the 'Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 and as amended in Section C3.2 Project Specifications, Part B: Amendments to the Standard Specifications, of this document.

#### 4.3 Particular / generic specifications

As well as the 'Amendments to the Standard Specifications' contained in Part B of Section C3.2 Project Specifications, of this document, the following Particular Specifications as contained in Section C3.3, are applicable to this Contract:

Part C: Environmental Management Specification
Part D: OHSA 1993 Health and Safety Specification

Part E: Expanded Public Works Programme
Part F: Small Contractor Development

The 'General Conditions of Contract for Construction Works, Third Edition (2015)', published by the South African Institution of Civil Engineering which is applicable to this Contract.

#### 4.4 Certification by recognized bodies

No certification of items included in the Works is required.

#### 4.5 Plant and materials provided by the Employer

No plant and materials are to be provided by the Employer.

#### 4.6 Services and facilities provided by the Employer

The Employer's Agent's site office and laboratory facilities will be paid for in terms of the Contract. No other services or facilities are to be provided by the Employer.

## 5. MANAGEMENT

## 5.1 Applicable SANS 1921 standards

The following parts of SANS 1921 and associated specification data are applicable:

## 5.1.1 SANS 1921-1 Part 1: General engineering and construction works

Specification data associated with SANS 1921-1				
Clause No.	Essential data			
4.1.7	There are no requirements for drawings, information and calculations for which the Contractor is responsible.			
4.2.1	The responsibility strategy assigned to the Contractor for the works is 'A'.			
4.3.1	The programme must conform to clause A1.2.7.1 (Scheme 1) 'Programme of Work' of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 and clause 5.6 'Programme' of the 'General Conditions of Contract 2015'.			
4.3.3	The Contractor must give 24 hours' notice for inspection of work that is to be covered up.			
4.7.3	Where applicable, the Contractor is afforded the opportunity of pricing an item to cover costs of unavoidable over-break.			
4.12.2	The samples of materials, workmanship and finishes that the Contractor is to provide and deliver to the Employer/Employer's Agent are to be as described in clause A1.2.8 'Workmanship and Quality Control' of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 and clause 7 'Quality and Related Matters' of the 'General Conditions of Contract 2015'.			
4.12.2	The fabrication drawings that the Contractor is to provide to the Employer are: none.			
4.14.5	The Contractor is to provide latrine and ablution facilities as described in Part C 'Environmental Management Plan' in Section C3.3: Particular Specifications of these Project Specifications.			
4.14.6	The requirements for the provision and erection of signboards are as described in clause A1.2.3.10 'Notices, Signs and Advertisements' of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020, and as detailed in the 'Example of Contract Signboard Details' in Section C4: Site Information of these Project Specifications.			
4.17.1	The requirements for the termination, diversion or maintenance of existing services are described in clause A1.2.7.3 and Chapter 2 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.			
4.17.3	Services that are known to exist on the site are described in clause A1.2.7.3 and Chapter 2 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.			
4.17.4	The requirements for detection apparatus for locating underground services are: none.			
4.18	The additional health and safety requirements are described in Part D 'OHSA 1993 Health and Safety Specification' in Section C3.3: Particular Specifications of these Project Specifications.			

#### 5.1.1 Additional clauses

#### 5.1.1.1 Site meetings and procedures

Site meetings shall be convened as described in clause A1.2.3.16 'Monthly Site Meetings' of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020. The Contractor shall keep on site a set of minutes of all site meetings, daily records of resources (people and equipment employed), a site memoranda book, a complete set of contract working drawings and a copy of the procurement document, and shall make these available at all reasonable times to all persons concerned with the contract.

#### 5.1.1.2 Water and electricity

The Contractor is to provide water and electricity as described in clauses A1.2.3.21 'Water' and A1.4.7.3 'Services' of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

#### 5.1.2 SANS 1921-6 Part 6: HIV/AIDS awareness

OANO 1921-0 Tart 0. Triv/AiDO awareness						
	Specification data associated with SANS 1921-6					
Clause No.	Essential data					
A qualified service provider is one that is an accredited or provisionally accredited service provider in the HIV/AIDS field. A list of accredited service provider obtained from the Construction SETA (CETA) (tel. 011 265 5900), Health at SETA (HWSETA) (011 622 6852) or on the Health and Welfare SETA www.hwseta.org.za.						
4.2.1(a)	The HIV/AIDS awareness programme is to be repeated at four monthly intervals throughout the duration of the contract.					

#### 5.1.2.1 Additional clauses:

### (a) Workshops

The duration of each workshop shall not be less than 2½ hours.

## 5.2 Recording of weather

The Contractor shall erect a rain gauge and record the rainfall as described in clause A1.2.3.4 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020. This information together with other details of the prevailing weather conditions shall be recorded in the daily site diary.

#### 5.3 Unauthorised persons

The Contractor shall keep unauthorised persons away from the Works at all times. Under no circumstances may the Contractor's personnel be accommodated on the site.

## 5.4 Management meetings

Management meetings are to be held weekly at a time convenient to all concerned, to discuss planning and health and safety amongst other things. Attendance by the Construction Manager and the Employer's Agent's Representatives on site is mandatory, and attendance by other interested parties will be by invitation.

#### 5.5 Forms for contract administration

The Employer's Agent's Representative will provide standard forms for 'Site Diary', 'Site Memoranda', 'Requests for Inspection' and any others deemed to be necessary during the contract.

#### 5.6 Electronic payments

Payments of approved payment claims will be made electronically upon submission of the Contractor's banking details.

#### 5.7 Daily records

A site diary is to be compiled jointly by the Construction Manager and the Employer's Agent's Representatives on site and is to be agreed and signed by both parties. The original signed copy is to be retained by the Employer's Agent's Representative.

The Contractor is to keep daily records of people and equipment on site in a format to be agreed by the Employer's Agent's Representative, and is to provide copies to the Employer's Agent's Representative when requested.

#### 5.8 Payment certificates

Details of measurements, proof of payment for items contained in provisional sums and prime cost sums, proof of ownership of Plant and materials on site and documentation pertaining to contract price adjustment and special materials, are required as substantiation of claims for payment.

#### 5.9 Permits

No security/entrance permits are required by the Contractor's personnel to enter the site.

#### 5.10 Proof of compliance with the law

There are no requirements for the Contractor to verify compliance with any legislation.

## 5.11 Submission of reports

The contractor shall submit monthly reports in accordance with the specifications in Part E: Expanded Public Works Programme and Part F: Small Contractor Development.

## PARTICULAR SPECIFICATIONS

In addition to the Standard Specifications and the Project Specifications, the following Particular Specifications shall apply to this contract and are bound in hereafter:

PART C:	ENVIRONMENTAL MANAGEMENT SPECIFICATION	C82
PART D:	DAYWORK	C88
PART E:	OHSA 1993 HEALTH AND SAFETY SPECIFICATION	C91
PART F:	EXPANDED PUBLIC WORKS PROGRAMME	C100
PART G:	SMALL CONTRACTOR DEVELOPMENT	C134

## 3.3 PARTICULAR SPECIFICATIONS

PART C: ENVIRONMENTAL MANAGEMENT SPECIFICATION

#### PART C: ENVIRONMENTAL MANAGEMENT SPECIFICATION

#### C1. SCOPE

The Employer recognises environmental management as a key component of road infrastructure development and as part of its environmental policy has developed this environmental management specification as a tool for continual improvement in environmental performance.

CONTACT NO.: ZNB00771-00000-00-PMR-INF-21-T

This environmental management specification prescribes the methods by which proper environmental controls are to be implemented by the Contractor. The duration over which the Contractor's controls shall be in place cover the construction period of the project as well as the limited time after contract completion defined by the General Conditions of Contract 2015 as the Defects Notification Period (maintenance period).

#### C2. ENVIRONMENTAL MANAGEMENT PLAN

In order to ensure that the construction work is carried out in an environmentally sensitive manner, strict compliance with the Environmental Management Plan (EMP) guidelines is required. The purpose of the EMP is to:

- Encourage good management practices through planning and commitment to environmental issues,
- Provide rational and practical environmental guidelines to:
  - (i) Minimise disturbance of the natural environment,
  - (ii) Prevent pollution of land, air and water,
  - (iii) Prevent soil erosion and facilitate re-vegetation.
- Adopt the best practicable means available to prevent or minimise adverse environmental impact,
- Develop waste management practices based on prevention, minimisation, recycling, treatment or disposal of wastes,
- Train employees and contractors with regard to environmental obligations.

#### C3. ADMINISTRATION OF ENVIRONMENTAL OBLIGATIONS

The Contractor is responsible for the implementation of this EMP to ensure sound environmental management during the construction phase of a project.

The Contractor shall receive and implement any instruction issued by the Employer's Agent relating to compliance with the EMP including the removal of personnel or equipment.

Compliance with the provisions contained herein or any condition imposed by the environmental approvals, shall become the responsibility of the Contractor through an approved Environmental Officer (EO). The Contractor shall nominate a person from among his site personnel to fulfil this function and submit to the Employer's Agent for his approval the curriculum vitae of the proposed EO. This request for approval shall be given, in writing, at least fourteen days before the commencement of any construction activity clearly setting out reasons for the nomination, and with sufficient detail to enable the Employer's Agent to make a decision.

Once a nominated representative of the Contractor has been approved as the EO, the EO shall be the responsible person for ensuring that the provisions of this EMP are complied with for the duration of the contract. The EO shall submit monthly written reports of compliance with the EMP to the Employer's Agent.

In addition to the compliance duties relating to this EMP, the EO shall also provide full cooperation whenever the Contractor is subjected to regular environmental audits.

#### C4. TRAINING AND INDUCTION OF EMPLOYEES

The Contractor has a responsibility to ensure that all those people involved in the project are aware of and familiar with the environmental requirements for the project (this includes subcontractors and local labour). The EMP shall be part of the terms of reference for all contractors, subcontractors and suppliers.

## C5. COMPLAINTS REGISTER AND ENVIRONMENTAL INCIDENT BOOK

Any complaints received by the project team from the public will be recorded. The complaint should be brought to the attention of the Construction Manager, who will respond.

CONTACT NO.: ZNB00771-00000-00-PMR-INF-21-T

The following information must be recorded:

- Time, date and nature of the complaint,
- Type of communication (telephone, letter or email),
- Name, contact address and telephone number of the complainant,
- Response and investigation undertaken, and
- Actions taken and by whom.

All complaints received will be investigated and a response given to the complainant within 14 days.

All environmental incidents occurring on the site will be recorded. The following information will be provided:

- Time, date, location and nature of the incident, and
- Actions taken and by whom.

#### **C6. SITE CLEANLINESS AND NEATNESS**

- Location of a construction camp is to be approved by the Employer's Agent and is to be restored to its previous condition after completion of construction.
- The construction camp should preferably be fenced with a 1,8m Bonnox fence or similar approved.
- All materials, equipment, plant and vehicles must be stored within the construction camp.
- A dedicated area must be made available for construction staff to change and store their personal belongings.

#### C7. ACCESS

- Access to existing roads, schools, buildings, shops and residential properties must not be impeded during construction.
- Access roads utilised by the Contractor must be maintained in good condition.

#### C8. BORROW PITS

- Mining authorisations (permits) for borrow pits must be obtained from the Department of Mineral Resources (DMR) in consultation with the Department of Water and Sanitation (DWS).
- Spoil dumps resulting from borrow pits must not interfere with any natural surface drainage.
- Borrow pits must be rehabilitated after use in accordance with the requirements of DMR and DWS.

#### C9. DUST CONTROL / AIR QUALITY

- Dust suppression measures must be implemented during construction by ensuring that all surfaces prone to dust generation are kept damp (e.g. use of water tanker).
- Ensure that vehicles and equipment are in good working condition and that emissions are not excessive.
- Special care must be taken in areas where the route passes close to schools and residential areas.
- The speed of construction vehicles must be reduced.

### C10. FAUNA

 Contractors' and subcontractors' staff and workers may not chase, catch or kill animals encountered during construction.

#### C11. FIRE PREVENTION AND CONTROL

- Smoking is prohibited in the vicinity of flammable substances.
- The Contractor must ensure that fire-fighting equipment is available on site, particularly where flammable substances are being stored or used, and that construction staff are aware of where it is kept and how it is operated.

• Fires started for comfort (warmth) are prohibited, due to the risk of veld fires and risk to adjacent property owners' lands.

#### C12. GRAVE SITES

Grave sites in close proximity to the road must not be disturbed during construction.

#### C13. MATERIALS HANDLING AND SPILLS MANAGEMENT

- Any hazardous materials to be used during construction (e.g. lime, fuel and paint) are to be stored
  in a designated area at the campsite.
- The storage containers/facilities (including any diesel or petrol tanks) must be placed on an impermeable surface and surrounded by a bund wall, in order to ensure that accidental spillage does not pollute the environment.
- Workers must at all times be made aware of the health and safety risks associated with any hazardous substances used (e.g. smoking near fuel tanks), and must be provided with appropriate protective clothing/equipment in case of spillages or accidents.
- Ensure all staff and contractors undergo relevant training in the maintenance of equipment to prevent the accidental discharge or spill of fuel, oil, lubricants and other chemicals.
- Any spill of potentially hazardous materials must be cleaned up immediately (potentially hazardous materials on site include paint, oil, grease, fuel and turpentine).
- The area of contaminated soil or spill must be deposited into the hazardous waste container(s).
- The Contractor should keep Peat Sorb or a similar absorbent on site to clean up any spills. The absorbent must be stored in a designated area and be available for inspection.
- All spills are to be recorded in the environmental incident book.

#### C14. NOISE

- Noise generating activities must be restricted to between 07:00 and 17:00 Monday to Friday, unless otherwise approved by the appropriate competent person in consultation with adjacent landowners/affected persons.
- All equipment, vehicles and machinery must be in good working condition and be equipped with sound mufflers if necessary.
- Construction staff must be trained and made aware of not creating unnecessary noise such as hooting and shouting.

#### C15. POLLUTION CONTROL

- Soil and water pollution through usage of fuel, oil, paint, bitumen or other hazardous substances must be avoided.
- All construction vehicles are to be maintained in good working order so as to prevent soil or water pollution from oil, fuel or other leaks, and to reduce noise pollution.

#### C16. RIVERS AND STREAMS

- During construction of bridge structures, there must be no obstruction of the water flow of rivers and streams.
- Excavated material must not be stockpiled on or near riverbanks, in order to prevent sedimentation occurring.
- Erosion control measures must be employed both during and after construction.
- No impediments to natural surface water flow, other than approved erosion control measures, must occur.

#### C17. SAFETY

- Safety measures, such as detour signs, must be implemented during construction to ensure the safety of workers, pedestrians and drivers/passengers in vehicles in the vicinity of construction work.
- Special care must be taken in the vicinity of schools to ensure the safety of children wishing to cross the road under construction.
- The relevant signage (e.g. speed control signs) must be erected alongside the road during the operation phase in order to control traffic.
- Accommodation must be made for pedestrian pathways alongside the road during the

construction and operation phases.

#### C18. SOIL MANAGEMENT

- Storm water drainage pipes must be installed alongside the road in all areas susceptible to soil erosion.
- Erosion should be minimised by the construction of meadow drains and the planting of indigenous vegetation on the side slopes and drains to reduce flow velocity of storm water.
- Spoil from cuts may be used in existing erosion gullies.
- Stone pitching and gabions should be constructed at pipe culvert outlets.
- Accidental spills of contaminants onto the ground e.g. oil, concrete, fuel and chemicals should be removed together with the contaminated soil.
- If necessary, an absorbent such as Peat Sorb should be used to aid in cleaning up the spill. The
  contaminated soil should be disposed of in an appropriate container, depending on its
  classification.
- Servicing and refuelling of vehicles must only be carried out at the construction camp.

#### C19. WORKER CONDUCT

Code of Conduct for Construction Personnel:

- Do not leave the construction site untidy and strewn with rubbish which will attract animal pests.
- Do not set fires.
- Do not cause any unnecessary, disturbing noise at the construction camp/site or at any designated worker collection/drop off points.
- Do not drive a construction-related vehicle under the influence of alcohol.
- Do not exceed the national speed limits on public roads or exceed the recommended speed limits on the site.
- Do not drive a vehicle which is generating excessive noise or gaseous pollution (noisy vehicles must be reported and repaired as soon as possible).
- Do not litter along the roadsides, including both the public and private roads.
- Do not pollute any water bodies (whether flowing or not).
- No member of the construction team is allowed to enter the areas outside the construction site.

#### C20. TRAFFIC DISTURBANCES AND DIVERSIONS

- Any traffic diversions must be undertaken with the approval of all relevant authorities and in accordance with all relevant legislation.
- Wherever possible, traffic diversion must only take place on existing disturbed areas and remain within the existing road reserve.
- Traffic diversion routes must be rehabilitated after use.

#### C21. VEGETATION

- Only vegetation falling directly on the route must be removed where necessary.
- Alien vegetation within the road reserve must be eradicated, and management measures must be implemented for future control of these species.
- Vegetation that has been removed from large areas (e.g. on traffic diversion routes) during construction must be replaced with indigenous vegetation after construction has been completed.

## **C22. WASTE MANAGEMENT**

- All general, non-hazardous waste must be placed in a skip container and disposed of at a registered waste disposal site.
- The Contractor is to ensure that the portable toilet facilities at the campsite are properly maintained and in working order.
- No disposal, or leakage, of sewage must occur on or near the site.
- All hazardous waste (e.g. oil, paint, empty lime bags, and contaminated wash water) must be stored in leakproof containers and disposed of at a registered hazardous waste disposal site.
- The contents of waste storage containers must, under no circumstances, be emptied to the surrounding area. In general, littering, discarding or burying of any materials is not allowed on site or along the route.
- Adequate waste receptacles must be available at strategic points around the construction camp

- and site for all domestic refuse and to minimise the occurrence of littering.
- Concrete rubble must be collected and disposed of as directed by the Employer's Agent.
- Each working area must be cleared of litter and building waste (e.g. rubble, wood and concrete packets) on completion of the day's work.
- Any spill around the container(s) should be treated as per clause C13 and C18.

#### C23. MEASUREMENT AND PAYMENT

The contractor shall make provision in the various rates and prices for all costs related to the environmental management specification and measures required in terms of legislation. Provision is made in item B13.02 of the Bill of Quantities for the contractor's general obligations, risks and liabilities in accordance with the environmental management specification.

## C3.3 PARTICULAR SPECIFICATIONS

PART D: DAYWORK

#### **PART D: DAYWORK**

#### D1. SCOPE

This part deals with the provision for daywork in the Bill of Quantities. Rates for daywork shall be entered in the Bill of Quantities in accordance with the following specifications.

#### D2. DAYWORK RATES

According to Clause 6.5 of the General Conditions of Contract 2015, certain work may be carried out using rates tendered in the daywork schedule. A schedule of personnel, construction equipment and vehicles which may be required to perform work on a daywork basis is included in the Bill of Quantities. The quantities used in the Bill of Quantities are for tender evaluation purposes only and the use or not of these items shall not constitute a variation in terms of Clause 6.3 of the General Conditions of Contract 2015.

No work will be paid for as daywork without the written instruction or approval of the Employer's Agent.

#### D3. TYPE OF WORK

The Employer's Agent may order daywork in certain cases where it is necessary to vary or to extend the works due to new or unforeseen circumstances to such an extent that the tendered rates for specific items of work are no longer applicable, or where no suitable combination of tendered rates can be used to pay for such work.

As a general rule, applicable rates for additional work items will be agreed between the Contractor and the Employer's Agent. Daywork will only be used in exceptional circumstances.

#### D4. MATERIALS

Materials for use in works carried out under daywork shall be purchased by the Contractor who shall also arrange for delivery to site, and shall be responsible for any other requirements associated with specific materials. A Provisional Sum has been allowed in Section D of the Bill of Quantities for daywork materials. The Contractor shall enter a tendered percentage in the Bill of Quantities to cover his handling costs and profit, as per other provisional and prime cost sums in this Contract.

Materials shall be paid for using the method described in C2.1, 'Pricing Assumptions'. No contract price adjustment will be applicable to materials.

The Contractor shall submit proof of ownership for any materials used in daywork with his daywork claim to the Employer's Agent. Further, if specific materials are required for daywork, quotations will be called for as per Clause 6.5.2 of the General Conditions of Contract 2015.

#### D5. CONSTRUCTION EQUIPMENT

Where daywork is ordered, the tendered rates for construction equipment in Section D of the Bill of Quantities shall be used in calculating the payment due for any construction equipment required to execute the daywork. If no rate is included in the Bill of Quantities for a particular item of construction equipment, and where no other rate or combination of rates would provide suitable compensation, then the daywork method of payment described in Clause 6.5.1.3 of the General Conditions of Contract 2015 will be used.

The tendered rates for each item of construction equipment shall include for all operating costs associated with the said item of construction equipment. Such costs are deemed to include fuel, re-fuelling costs, lubrication and routine servicing / maintenance, breakdowns and spares, all overhead costs, site management costs and administration costs. The tendered rates shall also include the construction equipment operator and the general supervision of the construction equipment while it is engaged in the daywork.

#### D6. SALARIES AND WAGES OF WORKMEN

The salaries and wages of workmen executing daywork shall be paid for using the tendered rates in the Bill of Quantities. The tendered rates shall include for all costs associated with the employment of personnel,

including salaries, wages, allowances, workmen's compensation, medical aid and pension contributions, government levies and taxes, training costs and any costs associated with living on the site. The tendered rates shall also include for the transportation of the workmen to the site of the daywork.

All overhead costs, administration costs, site management costs and the Contractor's profit are deemed to be covered by the daywork rates and no additions or mark ups will be made to the tendered rates.

The tendered rates shall also include any hand tools normally associated with the workmen's job description e.g. picks, shovels, hammers, saws and spirit levels. The tendered rate for labourers shall also include for the casual supervision by a gang leader or foreman. Only when specifically called for by the Employer's Agent, will payment be made for the use of a gang leader or foreman supervising on a continuous basis.

#### D7. MEASUREMENT AND PAYMENT

The following principles shall also apply to the measurement and payment of daywork.

The unit of measurement for construction equipment shall be the number of Vibroclock hours worked and each item of construction equipment shall be fitted with a Vibroclock, the cost of which shall be included in the rates. Excessive non-productive time when the engine is idling will not be paid for. Where there is ambiguity between the flywheel horsepower and mass of the machine, the flywheel horsepower shall govern the measurement category. Where width and mass are specified, mass shall govern the measurement category.

The Contractor's attention is drawn to the requirements of Clauses 6.5.3 and 6.5.4 of the General Conditions of Contract 2015 with regard to the submission of lists and statements of personnel, materials and construction equipment used for daywork.

## **C3.3 PARTICULAR SPECIFICATIONS**

PART E: OHSA 1993 HEALTH AND SAFETY SPECIFICATION

#### E1. SCOPE

This part covers the health and safety requirements to be met by the Contractor to ensure a continued safe and healthy working environment for all employees, subcontractors, the Employer, the Employer's Agent, inspectors and all other persons entering the site of works.

PART E: OHSA 1993 HEALTH AND SAFETY SPECIFICATION

This specification shall be read in conjunction with the Occupational Health and Safety Act, 1993 (Act No 85 of 1993 and amendment Act No 181 of 1993) and the corresponding Construction Regulations 2014, and all other safety codes and specifications referred to in the said Act and Construction Regulations.

In terms of the OHSA Agreement in Section C1.4 of the Contract document, the status of the Contractor as mandatary to the Employer (client) is that of an employer in his own right, responsible for compliance with all provisions of OHSA 1993 and the Construction Regulations 2014.

This specification and the Contractor's own Health and Safety Plan as well as the Construction Regulations 2014, shall be displayed on site or made available for inspection by inspectors, the Employer, the Employer's Agent, the Construction Health and Safety Agent, subcontractors, employees, representatives of trade unions and any other persons entering the site of works.

#### E2. DEFINITIONS

For the purpose of this contract the following shall apply:

- E2.1 "Construction Health and Safety Agent" (CHSA) means any competent person who acts as a representative for the Employer in managing health and safety on a construction project for the Employer and who has satisfied the registration criteria of the SACPCMP to perform the required functions.
- E2.2 "Contractor" where used in the contract documents and in this specification, means the Contractor as defined in the General Conditions of Contract 2015, and it shall have the exact same meaning as "principal contractor" as defined in the Construction Regulations 2014. "Contractor" and "principal contractor" are therefore interchangeable and shall be read in the context of the relevant document.

In this specification the terms "principal contractor" and "contractor" are replaced with "Contractor" and "subcontractor" respectively.

For the purpose of this contract the Contractor will, in terms of OHSA 1993, be the mandatary, without derogating from his status as an employer in his own right.

- E2.3 "**Employer**" where used in the contract documents and in this specification, means the Employer as defined in the General Conditions of Contract 2015 and it shall have the exact same meaning as "**client**" as defined in the Construction Regulations 2014. "**Employer**" and "**client**" are therefore interchangeable and shall be read in the context of the relevant document.
- E2.4 "**Employer's Agent**" where used in this specification, means the Employer's Agent as defined in the General Conditions of Contract 2015.

#### E3. EMPLOYER'S BASELINE RISK ASSESSMENT

#### E3.1 Risk information

The information presented in this clause is based on the Employer's baseline risk assessment prepared specifically for this contract.

This information describes the type of work required in terms of this contract that will be accompanied by dangers, hazards and risks which the Contractor shall be required to identify, analyse, manage, monitor and review in terms of the Health and Safety Plan and risk assessments.

This information is neither prescriptive nor exhaustive, and is provided as a guideline to Tenderers in

preparing their tender submissions, and to the successful Contractor as a basis for the preparation of the site-specific risk assessments to be performed by the Contractor in terms of Construction Regulation 9.

Tenderers shall make their own assessment of the dangers, hazards and risks that can be expected during the course of this contract, which may include dangers, hazards and risks not identified in the baseline risk assessment, including those that may arise from specific methods of construction employed by the Contractor, and shall make due allowance in their tendered rates and prices for all costs related to complying with the provisions of the Act and Construction Regulations.

This information is given in good faith for the guidance of Tenderers, and no additional payment shall be made as a result of any inaccuracies, discrepancies or omissions contained therein.

#### E3.2 Baseline risk assessment

The following is a list of risks identified which forms the Baseline Risk Assessment for the project prepared by the Employer in terms of Construction Regulation 5(1)(a).

#### E3.3 Guidelines for construction and maintenance projects under Covid-19 Lockdown

The Employer has prepared guidelines which set out the key principles and minimum requirements that define responsible, healthy and safe operations for road construction operations under COVID-19 Lockdown conditions, for the Contractor to comply with. In addition, the Contractor shall comply with any new COVID-19 Regulations issued by Government.

The guidelines have been included as Annexure A at the end of this Project Document.

#### E4. APPLICATION FOR CONSTRUCTION WORK PERMIT

Where the contract meets the requirements of Construction Regulation 3, the Employer must at least 30 days before commencement of the work and in accordance with the requirements of Construction Regulation 3, apply to the Provincial Director of the Department of Labour in writing for a construction work permit to perform construction work. The Employer's application must be done in a form similar to Annexure 1 of the Construction Regulations, and submitted with the required documentation, some of which the Contractor shall provide as stated in the Contract Data.

A copy of the construction work permit must be kept on site in the occupational health and safety file, available for inspection by inspectors, the Employer, the Employer's Agent, the Construction Health and Safety Agent, subcontractors, employees, representative trade unions and any other persons on the site. The Provincial Director will assign a site-specific number for each construction site, which must be conspicuously displayed at the main entrance to the site.

#### E5. NOTIFICATION OF CONSTRUCTION WORK

Where the contract meets the requirements of Construction Regulation 4, the Contractor shall, before commencement of the work and in accordance with the requirements of Construction Regulation 4, notify the Provincial Director of the Department of Labour of the intention to carry out the construction work, using the pro forma form included as Annexure 2 to this Health and Safety Specification.

A copy of the notification form must be kept on site, available for inspection by inspectors, the Employer, the Employer's Agent, the Construction Health and Safety Agent, subcontractors, employees, representative trade unions and any other persons on the site. A copy of the notification form shall also be kept on the health and safety file, and a further copy shall be forwarded to the Employer for his records.

#### E6. HEALTH AND SAFETY PLAN

Before commencement of any construction work, the Contractor shall prepare a project specific Health and Safety Plan complying with the requirements of Construction Regulation 7(1)(a) and this Health and Safety Specification.

The Health and Safety Plan must include a risk assessment performed and recorded in writing by a competent person as required in terms of Construction Regulation 9. The risk assessment shall identify and evaluate the risks and hazards that may be expected during the execution of the work under the contract, and it shall include a documented plan and applicable safe work procedures to mitigate, reduce or control the risks and hazards identified.

The Health and Safety Plan shall be available on site for inspection by inspectors, the Employer, the Employer's Agent, subcontractors, employees, representative trade unions, and health and safety representatives and committee members, and must be monitored and reviewed periodically by the Contractor.

#### E7. APPOINTMENT OF EMPLOYEES AND SUBCONTRACTORS

#### E7.1 Appointments

The Contractor shall appoint in writing all employees.

The Contractor shall appoint in writing all subcontractors, and such appointments shall be in compliance with the requirements of Construction Regulation 7.

#### E7.2 Health and safety induction training

No person shall be allowed or permitted to enter the site of the works unless such person has undergone health and safety induction training pertaining to the hazards prevalent on the site.

The Contractor shall ensure that all employees under his control, including subcontractors and their employees, undergo health and safety induction training by a competent person before commencement of construction work in compliance with Construction Regulations 7(5) and 9(3) and (4).

The Contractor shall ensure that all visitors to the construction site undergo health and safety induction and are provided with the necessary personal protective equipment in compliance with Construction Regulation 7(6).

#### E7.3 Medical certificate of fitness

The Contractor shall ensure that every employee, including subcontractors and their employees, has a valid medical certificate of fitness issued in compliance with Construction Regulation 7(1)(g) or 7(8) as applicable.

#### E8. APPOINTMENT OF SAFETY PERSONNEL

#### E8.1 Construction manager

Refer to Construction Regulation 8(1), (2), (3) and (4).

The Contractor shall appoint a full-time **Construction Manager** with the duty of managing all the construction work on the site, including the duty of ensuring occupational health and safety compliance.

The Contractor may also have to appoint one or more **assistant construction managers** to assist the Construction Manager where justified by the scope and complexity of the works.

#### E8.2 Construction health and safety officer

Refer to Construction Regulation 8(5) and (6).

Taking into consideration the size of the project and the dangers, hazards or risks that can be expected, the Contractor shall appoint in writing a full-time or part-time **construction health and safety officer** to assist in the control of all health and safety related aspects on the site. The construction health and safety officer shall be registered as required by the Chief Inspector of the Department of Labour and shall have the necessary competencies and resources to assist the Contractor.

#### E8.3 Construction supervisor

Refer to Construction Regulation 8(7), (8), (9) and (10).

The Contractor shall appoint a **construction supervisor** responsible for construction activities and ensuring occupational health and safety compliance on the construction site.

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

#### E8.4 Health and safety representatives

In terms of Sections 17 and 18 of the Act (OHSA 1993) the Contractor, being the employer in terms of the Act for the execution of the contract, shall appoint a **health and safety representative** whenever he has more than 20 employees in his employment on the site of the works. The health and safety representative must be selected from employees who are employed in a full-time capacity at a specific workplace.

The number of health and safety representatives for a workplace shall be at least one for every 50 employees.

The function of health and safety representative(s) will be to review the effectiveness of health and safety measures, to identify potential hazards and major incidents, to examine causes of incidents (in collaboration with his employer, the Contractor), to investigate complaints by employees relating to health and safety at work, to make representations to the employer (Contractor) or inspector on general matters affecting the health and safety of employees, to inspect the workplace, plant, machinery, etc. on a regular basis, to participate in consultations with inspectors and to attend meetings of the health and safety committee.

#### E8.5 Health and safety committee

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

The function of the health and safety committee shall be to hold meetings at regular intervals but at least once every three months, to review the health and safety measures on the contract, to discuss incidents related to health and safety with the Contractor and the inspector, to make recommendations regarding health and safety to the Contractor and to keep record of recommendations and reports made by the committee.

## E8.6 Competent persons

The Contractor shall appoint in writing designated competent employees and/or other competent persons as required by the Act and Regulations. Such appointments shall be in accordance with the relevant applicable sections of the Act and Regulations as determined by the requirements of the contract.

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

The appointment of competent persons to supervise parts of the construction work does not relieve the Contractor from any of his responsibilities for compliance with <u>all</u> requirements of the Construction Regulations.

#### E9. RECORDS AND REGISTERS

The Contractor shall keep records and registers related to health and safety on site as required by the relevant applicable sections of the Act and Regulations as determined by the requirements of the contract. Such records and registers shall be available for periodic inspection by inspectors, the Employer, the Employer's Agent, the Construction Health and Safety Agent, subcontractors, employees and representatives of trade unions.

#### E10. CONTRACTOR'S RESPONSIBILITIES

For this contract the Contractor will be the mandatary of the Employer (Client), as defined in the Act (OHSA 1993), which means that the Contractor has the status of employer in his own right in respect of the contract. The Contractor is therefore responsible for all the duties and obligations of an employer as set out in the Act (OHSA 1993) and the Construction Regulations 2014.

Before commencement of work under the contract, the Contractor shall enter into an agreement with the Employer (Client) in terms of C1.4 'Agreement in terms of Section 37(2) of the Occupational Health and Safety Act No. 85 of 1993', to confirm his status as mandatary (employer) for the contract under consideration.

The Contractor is advised in his own interest to make a careful study of the Act and the Construction Regulations, as ignorance of the Act and the Regulations will not be accepted in any proceedings related to non-conformance to the Act and the Regulations.

#### E11. MEASUREMENT AND PAYMENT

It is a condition of this contract that contractors who submit tenders for this contract shall make provision in their various tendered rates and prices for all costs related to the health and safety measures required in terms of the Act and Regulations during the construction process.

#### (a) Health and safety plan

The Contractor shall assess the risks associated with the Works when preparing the health and safety plan. In addition, the Contractor shall implement the health and safety plan, including the provision of a dedicated, full time health and safety officer, carrying out all the required site health and safety training and briefings, staff medical evaluations, monitoring and administrating the health and safety plan and for supplying all transport, personal protection safety items, other health and safety equipment, safety notices and any other health and safety related items that are required on site. Provision is made for the costs of preparing and implementing the health and safety plan in item B13.03 of the Bill of Quantities.

#### (b) Safety appointments

No separate additional payment will be made to cover the costs related to persons appointed as required in terms of the Act and Regulations to fulfil the various health and safety functions. Such persons include the Construction Manager, any assistant construction managers, the construction health and safety officer, the construction supervisor, any assistant construction supervisors, health and safety representatives, health and safety committee members and competent persons, all as referred to in subclauses E8.1 to E8.6 above. The Contractor shall therefore make provision in the various tendered rates and prices for all costs related to such persons, and for which no separate additional payment will be made except to the extent provided in item B13.03 of the Bill of Quantities.

#### (c) Records and registers

The keeping of records and registers related to health and safety on site as described in clause E9 above shall be regarded as a normal duty of the Contractor for which payment shall be deemed to be included in the Contractor's various tendered rates and prices, and for which no separate additional payment will be made except to the extent provided in item B13.03 of the Bill of Quantities.

#### (d) Medical certificates

No separate additional payment will be made to cover the costs related to obtaining the medical certificates of fitness required for every employee, including subcontractors and their employees, issued in compliance with Construction Regulation 7(1)(g) or 7(8) as applicable. The Contractor shall therefore make provision in the various tendered rates and prices for all costs related to such medical certificates, and for which no separate additional payment will be made except to the extent provided in item B13.03 of the Bill of Quantities.

## **ANNEXURE 2**

# OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (Regulation 4 of the Construction Regulations, 2014)

#### NOTIFICATION OF CONSTRUCTION WORK

1.	(a)	Name and postal address of principal contractor:
	(b)	Name and telephone number of principal contractor's contact person:
	` '	
2.	Princ	ipal contractor's compensation registration number:
3.	(a)	Name and postal address of client:
	(b)	Name and telephone number of client's contact person or agent:
4.	(a)	Name and postal address of designer(s) for the project:
	(b)	Name and telephone number of designer's(s') contact person(s):
_	Manage	
5.		e and telephone number of principal contractor's construction manager on site appointed in terms of ation 8(1):
6.		e(s) of principal contractor's assistant construction manager(s) on site appointed in terms of

## **ANNEXURE 2 - Continued**

Tvarrie(3) or contractors arready 30	noticu.		
Name(s) of contractors already se	elected:		
	n the construction site accountable	to principal contractor:	
Total:		Female:	
		date	:
Expected	commencement		
Nature of the construction work:			
Exact physical address of the cons	struction site or site office:		
	Nature of the construction work:  Expected  Expected  Estimated maximum number of pertotal:  Total:  Planned number of contractors or	Expected commencement  Expected completion  Estimated maximum number of persons on the construction site:  Total: Male:	Nature of the construction work:  Expected commencement date  Expected completion date  Estimated maximum number of persons on the construction site:  Total: Male: Female:  Planned number of contractors on the construction site accountable to principal contractor:

Client's Agent (where applicable)	Date
Client	Date

• THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR **PRIOR TO COMMENCEMENT** OF WORK ON SITE.

## **C3.3 PARTICULAR SPECIFICATIONS**

PART F: EXPANDED PUBLIC WORKS PROGRAMME

## PART F: EXPANDED PUBLIC WORKS PROGRAMME

CONTACT NO.: ZNB00771-00000-00-PMR-INF-21-T

#### F1. SCOPE

This part provides the specifications with regard to the following:

- (a) The Expanded Public Works Programme (EPWP); and
- (b) The National Youth Service (NYS) programme, which is a government programme implemented by the National Department of Public Works forming part of the Expanded Public Works Programme (EPWP).

The Contractor shall be required to participate in job creation (employment of local labour) by executing various portions of the Works using local labour (<u>unskilled or semi-skilled</u>), recruited from the local community, who are South African Citizens or foreigners in possession of a work visa issued by the Department of Home Affairs (only one such foreigner may be employed on any project). Such local labour shall be the targeted participants in the EPWP and NYS programmes.

Furthermore, in order to avoid duplication of training facilities, the provision of training facilities for all structured training, including for the structured training described in Part G: Small Contractor Development (in those instances where Part G is included in the contract), shall be measured and paid for in terms of the pay items provided in this Part F.

#### F2. EXPANDED PUBLIC WORKS PROGRAMME (EPWP)

## F2.1 Labour-intensive construction, supervision and management for the Expanded Public Works Programme (EPWP)

The Expanded Public Works Programme (EPWP) is a multi-sectoral government initiative to create jobs. In the case of the infrastructure sector, existing government expenditure is realigned using labour-intensive technologies to create job opportunities. This involves the use of both labour and construction equipment, where labour is preferred and construction equipment is used appropriately.

All work undertaken in terms of the Expanded Public Works Programme (EPWP) shall be implemented using labour-intensive construction methods to the extent economically feasible, in accordance with the "Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP) Third Edition 2015".

The aforementioned guidelines can be downloaded from the EPWP website of the Department of Public Works (<a href="http://www.epwp.gov.za/">http://www.epwp.gov.za/</a>).

Items scheduled for labour-intensive construction are marked with the letters "LI" in the bill of quantities in the manner described in C2.1 Pricing Assumptions.

Contractors shall note that they shall employ in labour-intensive works only the following supervisory and management staff that have completed the required Skills Programme in terms of Appendix C of the aforementioned guidelines:

- (a) Foremen / Supervisors at NQF level 4 "National Certificate: Supervision of Civil Engineering Construction Processes":
- (b) Site Agent / Construction Manager at NQF level 5 "Manage Labour-Intensive Construction Processes" or equivalent Quality Council for Trades and Occupations (QCTO) qualifications at NQF level 5 or 7.

In addition to their normal supervisory and management functions, the aforementioned supervisory and management staff shall also be responsible for setting the workers' daily tasks in accordance with labour-intensive construction principles, and for ensuring that the EPWP job creation reporting data is accurately recorded on a daily basis and compiled and submitted to the Employer each month in accordance with clause F4 of this Part F.

## F2.2 Labour laws applicable to the Expanded Public Works Programme (EPWP)

The work to be undertaken on this contract by unskilled or semi-skilled workers under the Expanded Public Works Programme (EPWP) shall be implemented in accordance with:

(a) the Code of Good Practice for Employment and Conditions of Work for Expanded Public Works Programmes (EPWP), issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in

Government Notice No. 129 of 18 February 2011 (Government Gazette No. 34032 of 18 February 2011); and

(b) Ministerial Determination 4: Expanded Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice No. R347 of 4 May 2012.

The aforementioned Government Notice No. R347 contains the standard terms and conditions for workers employed in elementary occupations on an Expanded Public Works Programme (EPWP). These terms and conditions do not apply to persons employed in the supervision and management of an Expanded Public Works Programme (EPWP).

The above documents can be downloaded from the EPWP website of the Department of Public Works (http://www.epwp.gov.za/).

#### F2.3 Persons to be employed under the Expanded Public Works Programme (EPWP)

All local labour required for the execution of labour-intensive works shall be engaged strictly in accordance with prevailing legislation.

The Contractor shall, through the Project Liaison Committee (PLC) and with the assistance of the Community Liaison Officer (CLO), inform the local community of the labour-intensive works proposed and the employment opportunities thereby presented.

The Contractor shall determine the minimum education level / skills required to undertake the works specified. In consultation with the PLC and the War Room convener for each relevant ward, selection of the local labour shall be made from households on the Operation Sukuma Sakhe (OSS) database profiled through the War Room for each ward. The list obtained from the OSS database must be accompanied by a letter from the War Room convener confirming that all the information provided was sourced from the War Room and that all listed incumbents reside within the relevant ward. The Contractor must maintain records of household profiles as part of the portfolio of evidence for selection. Selection shall be based on the minimum education level / skills required and the most-needy households, as determined by the household profiling. Preference shall be given for at least one person from each household in the community to be employed before further persons are considered for selection.

The Contractor shall endeavour to ensure that the number of temporary jobs using local labour (<u>unskilled or semi-skilled</u>), recruited from the local community, who are South African Citizens or foreigners in possession of a work visa issued by the Department of Home Affairs (only one such foreigner may be employed on any project), shall include for a minimum allocation of:

- (a) 60% women;
- (b) 55% youth who are between the ages of 18 and 35; and
- (c) 2% persons with disabilities.

All labour recruitment, employment and associated risks shall remain the sole responsibility of the contractor.

The contractor shall comply with the minimum supervisor to worker ratio stated below, required to ensure the effective supervision of the labour-intensive works for all LI activities undertaken on this project:

Minimum supervisor to worker ratio = 1:10

#### F2.4 Contract of employment with persons employed under the Expanded Public Works Programme (EPWP)

The Contractor shall enter into a formal contract of employment with each person employed under the Expanded Public Works Programme (EPWP), using the pro forma contract of employment attached at the end of this Part F of section 3.3 Particular Specifications.

The Contractor shall note that all such formal contracts of employment entered into with persons employed under the Expanded Public Works Programme (EPWP) shall expire on 31 March each year, and the Contractor shall therefore be required to enter into new contracts with such persons as of 1 April each year.

## F2.5 Employment of targeted labour under the Expanded Public Works Programme (EPWP)

The Contractor shall be contractually obliged to:

(a) brief EPWP workers on the conditions of employment;

- (b) enter into a formal contract of employment with each EPWP worker, which contract will form part of the Employment Agreement;
- (c) keep personnel files for all EPWP workers and make copies available to the Employer if and when requested; and
- (d) ensure that payments to EPWP workers are made in accordance with Government Notice No. R347.

The rate of pay for persons employed under the Expanded Public Works Programme (EPWP) shall be the gazetted rate:

- (i) per task (for task-rated workers); or
- (ii) per day (for time-rated workers).

During those periods when an EPWP worker is engaged in formal classroom training (other than in-service training), the rate of pay shall be equal to the minimum wage rate as set on an annual basis in the Ministerial Determination for the Expanded Public Works Programme.

Tasks set by the Contractor shall be such that:

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

The Contractor shall revise the time taken to complete a task whenever it is established that the time taken per week to complete the tasks set does not fall within the limits indicated in (a) and (b) above.

### F2.6 Training of persons employed under the Expanded Public Works Programme (EPWP)

The training of persons employed under the Expanded Public Works Programme (EPWP) is described in clause F4 below.

## F2.7 Contractor's obligations towards persons employed under the Expanded Public Works Programme (EPWP)

Over and above implementing in accordance with Government Notice Nos. 129 and R347 the EPWP work to be undertaken on this contract, it shall be the responsibility of the Contractor to carry out the following functions with respect to the EPWP workers:

- (a) ensure that all participants are covered by the Compensation for Occupational Injuries and Diseases Act, 1993, for as long as they are contracted to the Contractor, and pay in full to the Compensation Commissioner such amounts as are due in terms of the Act;
- (b) pay in full to the Unemployment Insurance Fund for all participants such UIF contribution amounts as are due in terms of the Unemployment Insurance Act, 2001, as amended, and the Unemployment Insurance Contributions Act, 2002, as amended, and provide proof of such UIF payments upon request;
- (c) ensure that all participants are paid their wages on time through the pre-agreed payment method as stipulated in the participant contract of employment;
- (d) implement health and safety procedures with respect to the participants, ensuring that the health and safety regulations are adhered to:
- (e) ensure that all participants receive induction on site safety prior to commencing with work on site;
- (f) provide all participants with the necessary protective clothing and equipment as required by law for the specific tasks in which the participants are involved, in addition to the branded overalls stipulated for EPWP workers:
- (g) provide safe on-site storage facilities for apparel and tools issued to the participants;
- (h) assist in the assessment of participants with regard to their competencies;
- (i) provide overall supervision and day-to-day management of participants; and
- (j) implement strict quality control to ensure that the work carried out by the participants is of the required standard, and, where necessary, to train and mentor the participants to assist them in achieving the standards required.

#### F2.8 Apparel and tools for persons employed under the Expanded Public Works Programme (EPWP)

The Contractor shall provide Personal Protective Equipment (PPE) to all EPWP workers in accordance with the requirements arising from Part E: OHSA 1993 Health and Safety Specification and the Contractor's site-specific health and safety plan and accompanying risk assessments.

Where indicated below, certain items of the PPE issued by the Contractor to the EPWP workers shall include branded

EPWP markings in accordance with the attached branding requirements.

PPE shall comprise the following:

- (a) Compulsory PPE issued to all EPWP workers for use during general work activities:
  - (i) Protective overalls (two sets), green in colour, with EPWP branding;
  - (ii) Lime green reflective safety vest with EPWP branding;
  - (iii) Protective footwear; and
  - (iv) Protective gloves.
- (b) PPE issued to EPWP workers for specific activities where required in terms of the Contractor's site-specific health and safety plan and accompanying risk assessments, such as:
  - (i) Protective headwear, green in colour, with EPWP branding;
  - (ii) Protective eyewear such as spectacles and goggles;
  - (iii) Protective face shields;
  - (iv) Protective earplugs and earmuffs;
  - (v) Respiratory masks;
  - (vi) Disposable safety apparel:
  - (vii) Kidney belts;
  - (viii) Safety harnesses: and
  - (ix) Any other protective equipment identified.

The Contractor shall replace any item of issued PPE that becomes unserviceable.

The Contractor shall not charge any fee to the EPWP workers for the prescribed PPE issued except under the following circumstances:

- (i) where the employee requests the issue of additional PPE in excess of what is prescribed;
- (ii) where the employee has patently abused or neglected the issued PPE leading to early failure; or
- (iii) where the employee has lost the issued PPE.

The Contractor shall instruct and train the EPWP workers in the use of all PPE issued, and shall ensure that they use the prescribed equipment.

EPWP workers shall not have the right to refuse to use or wear the equipment prescribed by the Contractor. If it is not possible for an EPWP worker, through health or any other reason, to use or wear the prescribed PPE issued, such employee shall not be allowed to continue working under the hazardous conditions for which the equipment was prescribed. Under such circumstances an alternative solution shall be found, and this may include relocating or discharging the employee.

The Contractor shall provide each EPWP worker with hand tools of adequate quality and of the type required to carry out the assigned tasks safely and efficiently.

The Contractor shall instruct and train the EPWP workers in the safe and efficient use of all hand tools issued.

The Contractor shall maintain the issued tools in a serviceable and safe working condition.

The EPWP workers shall be responsible for the safe on-site storage of all PPE and tools issued to them, using the storage facilities provided on site by the Contractor.

No separate payment shall be made for providing the EPWP workers with PPE, or for providing relevant items of PPE in the specified colours with branded EPWP markings. Furthermore, no separate payment shall be made for providing the EPWP workers with hand tools or for providing them with safe storage facilities on site for PPE and tools. The Contractor shall therefore make provision for all costs related to providing the PPE, tools and safe storage facilities in the tendered rates and prices for the various items of work scheduled throughout the bill of quantities.

#### F2.9 EPWP contract signboard

The Contractor will be required to erect a contract signboard displaying the EPWP logo, indicating that this project is part of the Expanded Public Works Programme (EPWP). Provision for the costs related to the provision, erection and

subsequent removal of the contract signboard is made in pay item provided in section 1300 of the bill of quantities for this purpose.

#### F2.10 Payment matters relating to the EPWP work

#### F2.10.1 General

No separate pay items shall be provided in terms of Part F of the bill of quantities for the construction work activities carried out by EPWP participants. Payment for such work activities shall be made only indirectly, in terms of the pay items scheduled for the work activities in which such persons are engaged.

Furthermore, no direct payment will be made to cover the Contractor's costs associated with implementing the on-site work programme for the EPWP participants, for planning, organising, directing, controlling and administrating their day to day activities, including the setting of daily tasks, record keeping and any on-site liaison, training and mentoring required, and for the associated job creation reporting, and such costs shall therefore be built into the rates tendered for the various items of work scheduled throughout the bill of quantities.

#### F2.10.2 Payment for labour-intensive components of the work

Payment will be made for items which are designated for labour-intensive construction in the bill of quantities only in those instances where such items are constructed using labour-intensive methods.

Any unauthorised use of construction equipment to carry out work which was scheduled to be carried out using labour-intensive methods will not be condoned and any Works so constructed will not be certified for payment. Any non-payment for such Works shall not relieve the Contractor in any way from his obligations either in contract or in delict.

During the course of construction, as a result of unforeseen site conditions or operating conditions encountered, it may happen that an item designated for labour-intensive construction can no longer be carried out in a safe and economically feasible manner, either in full or in part, using labour-intensive methods. In such instances the Employer's Agent shall, where necessary, order a variation in terms of clause 6.3 of the of the General Conditions of Contract 2015 with respect to that portion of the item quantity that cannot be carried out using labour-intensive methods.

#### F2.11 Penalty applicable to any shortfall in the local labour content achieved

The amount spent on wages for local labour (excluding VAT) for this project, as certified by the Employer's Agent, shall equal or exceed the specified minimum percentage of the contract amount which is the Contract Price (adjusted to exclude penalties and value added tax).

The Contractor is obliged to commit to or exceed the specified minimum percentage of local labour content stated in section C1.2.2 Data Provided by the Employer.

In the event that the Contractor fails to substantiate that any failure to achieve the minimum required local labour content for this project is due to quantitative underruns, the elimination of items contracted to local labour, or any other reason beyond the Contractor's control which may be acceptable to the Employer, the Contractor shall be liable for a financial penalty as prescribed in clause SCC 4.1.1 of section C1.2.1.2 Special Conditions of Contract. The financial penalty shall be calculated as follows:

 $P = 0.05 x [(E - E_0)/100] x C_A$ 

#### where:

- E is the specified minimum percentage for local labour content
- E<sub>o</sub> is the local labour content percentage which the Employer's Agent certifies as being achieved upon completion of the contract
- C<sub>A</sub> is the contract amount which is the Contract Price (adjusted to exclude penalties and value added tax)
- P is the monetary value of penalty payable

The penalty shall not apply to shortfalls in the allocations to the individual target groups (i.e., Women/Youth/Disabled as per clause F1.3 above), only to shortfalls in the total local labour content achieved.

The evaluation of the Contractor's achievement of the local labour content percentage shall be undertaken monthly by the Employer's Agent, based on the accumulative achievements in comparison to the programmed utilisation of local

labour, as a means of monitoring the Contractor's performance in achieving the Contract Participation Goal.

Failure by the Contractor to achieve the Contract Participation Goal target by the time of Practical Completion, shall result in the financial penalty being applied as prescribed in this clause. The Employer's Agent shall make a final determination of the Contractor's achievement of the Contract Participation Goal based on the value of the Final Payment Certificate.

## F3. NATIONAL YOUTH SERVICE (NYS)

The Employer requires the implementation of National Youth Service (NYS) programmes on this project.

#### F3.1 The National Youth Service (NYS) programme

The National Youth Service (NYS) programme aims to train young people and provide them with practical work experience. The young people will be allocated tasks by the Contractor that will assist the Contractor with the execution of the contract.

### F3.2 Applicable labour laws

The work to be undertaken on this contract by unskilled or semi-skilled workers under the National Youth Service (NYS) programme shall be implemented in accordance with the same Code of Good Practice and Ministerial Determination as described in clause F2.2 above for work to be undertaken under the Expanded Public Works Programme (EPWP).

#### F3.3 Employer's project manager

The Contractor shall be required to liaise closely with the Employer's project manager who is responsible for the recruitment and training of the NYS workers.

#### F3.4 Persons to be employed under the NYS programme

For purposes of this contract, the Contractor shall be required to employ 8 youths aged between 18 and 35 for a period of 8 months each under the NYS programme.

The Employer's project manager shall provide the Contractor with a list of the 8 youths to be employed and the training that each of these 8 youths have received to date, and only these 8 youths shall be employed by the Contractor under the NYS programme.

## F3.5 Contract of employment with persons employed under the NYS programme

The Contractor shall enter into a formal contract of employment with each youth employed under the NYS programme, using the pro forma contract of employment attached at the end of this Part F of section 3.3 Particular Specifications.

#### F3.6 Employment of NYS workers

The Contractor will be contractually obliged to:

- (a) employ all participants on the list provided by the Employer's project manager;
- (b) brief NYS workers on the conditions of employment;
- enter into a formal contract of employment with each NYS worker, which contract will form part of the Employment Agreement;
- (d) keep personnel files for all NYS workers and make copies available to the Employer's project manager if and when requested; and
- (e) ensure that payments to NYS workers are made in accordance with Government Notice No. R347.

During the period when they are engaged in formal classroom training (other than in-service training), the youths employed under the NYS programme shall be paid the minimum wage rate as set by the Department of Labour on an annual basis in the Ministerial Determination for the Expanded Public Works Programme, and should there be an upward adjustment in the rate the Contractor will be compensated accordingly. During the period when they are engaged in productive work activities required for elements of the Works, they shall be paid in terms of the wage rates stated in clause F2.5 above.

#### F3.7 Training of youth workers

All NYS workers will be placed on an extensive training programme that will include:

- (a) an induction into NYS and EPWP;
- (b) life skills training:
- (c) technical training focusing on a vocational skill to be used on the project (e.g. painting or carpentry); and
- (d) entrepreneurship and business skills training.

All training will be arranged by the Employer's project manager, with whom the Contractor will be required to work closely to schedule the training sessions so that the timing of the training is aligned with the Contractor's work schedule and his demand for workers with specific skills. The Employer's project manager will make full details of the training programme available to the Contractor.

A compulsory 10-day life skills training must be provided before commencement of classroom training on NYS. This type of training must be provided by a NYDA accredited service provider as per the National Youth Service Framework from the National Department of Public Works.

The Contractor shall maintain comprehensive records of the training received by each NYS worker throughout the course of the contract, and shall submit to the Employer at each monthly site meeting a summary of the accumulated training received by each NYS worker.

The training of the NYS workers shall take place using the same training facility provided for the training of all other EPWP participants (refer to clause F5 below).

#### F3.8 Contractor's obligations towards persons employed under the NYS programme

Over and above implementing in accordance with Government Notice Nos. 129 and R347 the NYS programme work to be undertaken on this contract, it shall be the responsibility of the Contractor to carry out the following functions with respect to the NYS programme workers:

- (a) ensure that all participants are covered by the Compensation for Occupational Injuries and Diseases Act, 1993, for as long as they are contracted to the Contractor, and pay in full to the Compensation Commissioner such amounts as are due in terms of the Act;
- (b) pay in full to the Unemployment Insurance Fund for all participants such UIF contribution amounts as are due in terms of the Unemployment Insurance Act, 2001, as amended, and the Unemployment Insurance Contributions Act, 2002, as amended, and provide proof of such UIF payments upon request;
- (c) ensure that all participants are paid their wages on time through the pre-agreed payment method as stipulated in the participant contract;
- (d) implement health and safety procedures with respect to the participants, ensuring that the health and safety regulations are adhered to;
- (e) ensure that all participants receive induction on site safety prior to commencing with work on site;
- (f) provide all participants with the necessary protective clothing and equipment as required by law for the specific trades in which the participants are involved, in addition to the branded overalls stipulated for NYS workers;
- (g) provide safe on-site storage facilities for apparel and tools issued to the participants;
- (h) assist in the assessment of participants with regard to their competencies in their respective trades;
- (i) provide overall supervision and day-to-day management of participants; and
- implement strict quality control to ensure that the work carried out by the participants is of the required standard, and, where necessary, to train and mentor the participants to assist them in achieving the standards required.

#### F3.9 Apparel and tools for NYS workers

The content of clause F2.8 above with regard to apparel and tools for EPWP workers shall apply equally to NYS workers, except that:

- (a) apparel and tools to be issued to NYS workers shall be determined in conjunction with the Employer's project manager;
- (b) the required branding of apparel to be issued to NYS workers shall be determined in conjunction with the Employer's project manager, and shall also include the NYS logo;
- (c) additional PPE may be required depending on the NYS worker's specific trade;
- (d) certain specified apparel and tools issued to the NYS workers will become the property of the NYS workers after the completion of their cycle of work on the project, in order to enable them to continue to practise their trade on future projects. Such apparel and tools shall be specified and authorised by the Employer's Agent; and
- (e) separate payment items have been provided in Part F of the bill of quantities to cover all costs associated with

the provision of the necessary tools and apparel, including safety apparel, for the NYS workers, and the facilities for the safe storage thereof, all as authorised by the Employer's Agent.

#### F3.10 EPWP-NYS contract signboard

Where work takes place under the National Youth Service (NYS) programme, the NYS logo shall also be displayed on the EPWP contract signboard referred to in clause F2.9 above, indicating that this project is part of both the Expanded Public Works Programme (EPWP) and the NYS programme. Provision for the costs related to the provision, erection and subsequent removal of the contract signboard in the pay item provided in section 1300 of the bill of quantities for this purpose.

## F3.11 Payment matters relating to the NYS work

No direct payment will be made to cover the Contractor's costs associated with implementing the on-site work programme for the NYS workers, for planning, organising, directing, controlling and administrating their day to day activities, including the setting of daily tasks, record keeping and any on-site liaison, training and mentoring required, and for the associated job creation reporting, and such costs shall therefore be built into the rates tendered for the various items of work scheduled throughout the bill of quantities.

#### F4. JOB CREATION REPORTING FOR EPWP

In order to assist the Employer in complying with the goal of creating EPWP job opportunities, the Contractor must provide the information specified in clause F4.1 below for reporting purposes.

In addition, the Contractor's payment certificates shall be accompanied by the information specified in clause F4.2 below.

#### F4.1 Type of project data required per project

Every EPWP project shall collect and keep specific project data for the purpose of EPWP progress reporting on a monthly basis, using the EPWP Data Collection Tool template (this will be made available to the Contractor in Microsoft Excel format - refer to the pro forma spreadsheets at the end of this Part F of the Particular Specifications).

The data that is required to be kept, maintained and reported on a monthly basis for each project includes:

#### F4.1.1 Participant (local labour) data

A participant list of the local labour employed must be maintained for every EPWP project. The data required in this participant list is indicated below. This data shall be recorded, checked and signed off by the Contractor, and shall be submitted to the Employer at each monthly site meeting. The participant list shall contain the following data and shall be kept and maintained on site for audit purposes:

- (a) Participant identity name, surname, initials, date of birth and identity number (or other unique identifier) plus certified copy of ID book.
- (b) Participant profiles nationality, gender, age, education level and disability status.
- (c) Work data for participants daily wage to be received, number of calendar days training attended and number of calendar days worked.
- (d) Records of training as required in terms of the EPWP Data Collection Tool template.

In addition, the signed contracts of employment between the Contractor and each EPWP participant shall be kept and maintained on site for audit purposes.

#### F4.1.2 Project work data

The project work data generally seeks to confirm the number of people at work daily on the project. This data shall be recorded, checked and signed off by the Contractor, and shall be submitted to the Employer at each monthly site meeting. The data shall be maintained on site by the Contractor, in order that it can be provided by the Employer to the National Department of Public Works upon request when the latter is undertaking sample auditing. These records shall be kept by the Contractor for a period of three years after contract completion should they be required for audit purposes.

The data shall include:

- (a) Daily attendance register register for each day showing all the workers that were registered as being at work on that day. Attendance registers shall be completed on site on a daily basis and signed off by the Contractor on a weekly basis. Refer to pro forma attendance register attached at the end of this Part F of section 3.3.
- (b) Summary of monthly attendance.

#### F4.1.3 Project payment data

The project payment data generally seeks to confirm what was paid, for how much work and to whom. This data shall be recorded, checked and signed off by the Contractor, and shall be submitted to the Employer at each monthly site meeting.

It is required that the Contractor adopt one of the following methods as standard procedure for recording and maintaining this information:

- (a) Payment register this is a list of the workers showing the wages paid to each worker, and signed off by each worker as proof of receipt and acceptance of payment. Information on this register must include the name of the worker, either an identity number or other unique identifier, the number of calendar days that the pay period covers, the wage rate and the total wages paid; or
- (b) Bank records showing the transfers to each worker account, signed off by the Contractor as proof of payment these bank records must specifically show the name of the worker, either an identity number or other unique identifier, the period which the pay covers and the total wages paid.

The project payment data, as recorded and maintained by the Contractor in terms of either (a) or (b) above, must be available and applicable for the entire period for which the Employer claims an incentive reward for person-days of work created in terms of the project.

#### F4.1.4 Employment output data

The Contractor shall submit to the Employer at each monthly site meeting a progress report detailing production output compared to the programme of works, together with the data necessary to enable the Employer to calculate the following employment output data in accordance with the EPWP Data Collection Tool template:

- (a) Number of work opportunities created (where <u>one</u> work opportunity = paid work created for <u>one</u> individual on an EPWP project, for <u>any</u> period of time).
- (b) Number of person-days of work created (where <u>one</u> person-day = <u>one</u> day of work carried out by <u>one</u> individual). The total number of person-days of work created on a particular EPWP project shall be obtained by summing the total number of person-days worked by each individual employed during the course of that EPWP project.
- (c) Number of Full Time Equivalents (FTE) created (= total number of person-days of work created on the EPWP project divided by 230 working days). In terms of EPWP policy, <u>one</u> year of work created for <u>one</u> individual is assumed to comprise a total of 230 days of paid work carried out by that individual.
- (d) Average duration of work opportunities created (= total number of person-days of work created on the EPWP project divided by the number of work opportunities created on that EPWP project).
- (e) Average daily wage rates paid (= accumulated total of the wages paid to all individuals employed on an EPWP project divided by the total number of person-days of work created on that EPWP project).
- (f) Training information.

#### F4.2 Project data to be submitted with the Contractor's payment certificates

The Contractor's payment certificates shall be accompanied by labour returns providing the labour information for the corresponding period in a format specified by the Employer.

Should the Contractor choose to delay submitting payment certificates, the labour returns shall nevertheless still be submitted as per the frequency and timeframes stipulated by the Employer. The Contractor's payment certificates shall not be paid by the Employer until all pending labour information has been submitted.

The following information shall be maintained on site and submitted with each payment certificate in the format specified by the Employer:

(a) Copies of the signed contracts between the Contractor and any new EPWP participants (the Contractor shall note that all such formal contracts of employment entered into with persons employed under the Expanded Public

Works Programme (EPWP) shall expire on 31 March each year, and the Contractor shall therefore be required to enter into new contracts with such persons as of 1 April each year, and shall be required to submit copies of all such new contracts with the first payment certificate thereafter);

- (b) Certified ID copies of all local labour employed as EPWP participants;
- (c) Attendance registers for the EPWP participants;
- (d) Proof of payment of EPWP participants; and
- (e) Information as required in terms of the EPWP Data Collection Tool template.

#### F5. PROVISION OF STRUCTURED TRAINING

#### F5.1 Scope of structured training

In order to avoid duplication of training facilities, the training described in Part G: Small Contractor Development (in those instances where Part G is included in the contract), shall be provided utilising the training facility measured and paid for in accordance with the requirements of this Part F: Expanded Public Works Programme (EPWP).

The Employer's objectives include the training of local labour and Targeted Enterprises within a structured programme, in order to equip them with skills that will assist them in gaining future employment, and to facilitate targeted EPWP participants in gaining competencies and unit standard credits towards future full learnership qualifications.

Such training shall contain both theoretical and practical components and shall be conducted in accordance with the various laws and regulations contained in the South African Qualifications Authority (SAQA) statutes.

The following aspects of the structured training to be provided are noted:

- (a) The Employer has no service agreement or memorandum of understanding with any Education and Training Quality Assurance (ETQA) body, and therefore does not function as the employer as defined under any three-party learnership agreement between the learner, the training provider and the employer.
- (b) The structured training programmes implemented on this contract, although comprising several unit standards, are unlikely to total to sufficient credits for a full learnership qualification. Nevertheless, the competencies and credits achieved should contribute to a full learnership through the later acquisition by the learner of the remaining unit standards required for the full learnership.

The Contractor shall be required to provide a training facility on the Site, or in close proximity thereto, and to provide over the duration of the contract the following structured training for EPWP participants:

- (a) Generic skills training;
- (b) Entrepreneurial skills training;
- (c) Construction skills training; and
- (d) In-service training.

Generic skills training and in-service training shall be provided to all EPWP participants.

Entrepreneurial and construction skills training shall be provided to targeted EPWP participants only.

#### F5.2 Training provider and trainers

The Contractor shall be required to procure the services of a training provider accredited by the Construction Education and Training Authority (CETA).

The training provider shall have in its employ trainers who are registered as assessors with the Construction Education and Training Authority (CETA), and who shall deliver the training.

Proof of the accreditation of the service provider and the registration of the trainers by the CETA shall be submitted to the Employer's Agent. Such accreditation and registration shall be current and valid, and the proof submitted shall include the NQF levels and unit standards for which each trainer is accredited.

#### F5.3 Skills analysis and selection of targeted EPWP participants

Studying for any learnership requires minimum literacy and numeracy competencies as defined by SAQA. The actual literacy and numeracy levels of the persons employed on the Site shall provide a basis to guide the Contractor and the training provider on how to conduct the selection process.

The Contractor shall therefore conduct a skills analysis of the local labour and Targeted Enterprises employed, in order to determine the formal education qualifications of each employee.

The Contractor, in conjunction with the training provider, shall then identify those persons that display the potential to benefit from such structured entrepreneurial and construction skills training as may be provided for in the contract, and shall make recommendations in this regard to the Employer's Agent.

The final candidates selected for such training shall be decided between the Contractor and the Employer's Agent (or by the Project Management Team (PMT) in the case of training for Targeted Enterprises in terms of Part G: Small Contractor Development, where applicable).

#### F5.4 Structured training programmes

The Contractor, supported by the training provider, shall plan then implement structured training programmes for generic, entrepreneurial and construction skills training.

Training courses shall commence within six months of the Contractor taking possession of the Site, and shall be completed before the Due Completion Date.

All training shall take place within normal working hours, or as otherwise agreed with the learners.

The training provider shall design, compile and deliver the structured training programmes, based on the information obtained from the skills analysis.

#### F5.4.1 Generic skills training

The structured training programmes designed by the training provider for the generic skills training shall comprise relevant general courses such as basic hygiene and HIV/AIDS awareness, first aid, road safety, managing personal finance, and other courses that would be useful to workers in the road construction industry or as life skills generally.

#### F5.4.2 Entrepreneurial skills training

The structured training programmes designed by the training provider for the entrepreneurial skills training shall comprise unit standards that contribute towards one or more of the following full learnership qualifications, as appropriate taking into consideration the skills analysis information for the selected candidates (details of the learnership qualifications and the applicable unit standards may be found on the website <a href="https://www.saqa.org.za">www.saqa.org.za</a>):

ENTREPRENEURIAL SKILLS TRAINING				
Qualification title	SAQA qualification ID	NQF level	Minimum credits	Purpose of qualification
National Certificate: Supervision of Construction Processes	49053	Level 4	176	Learners found competent against this qualification will be able to execute the supervision of construction processes, with specialisation in a specific context

#### F5.4.3 Construction skills training

The structured training programmes designed by the training provider for the construction skills training shall comprise unit standards that contribute towards one or more of the following full learnership qualifications, as appropriate taking into consideration the skills analysis information for the selected candidates (details of the learnership qualifications and the applicable unit standards may be found on the website <a href="www.saqa.org.za">www.saqa.org.za</a>):

CONSTRUCTION SKILLS TRAINING				
Qualification title	SAQA qualification ID	NQF level	Minimum credits	Purpose of qualification
National Certificate: Supervision of Construction Processes	49053	Level 4	176	Learners found competent against this qualification will be able to execute the supervision of construction processes, with specialisation in a specific context
National Certificate: Construction: Roadworks	24173	Level 3	155	This qualification is for persons who work or intend to work within a construction context on a site, and who seek recognition for essential skills in construction operations in roadworks.
National Certificate: Construction: Roadworks	24133	Level 2	120	This qualification is for persons who work or intend to work within a construction context on a site, and who seek recognition for essential skills in construction operations in roadworks.
National Certificate: Occupational Health, Safety and Environment	74269	Level 2	120	This qualification is to equip learners working in any type of workplace with a broad understanding and knowledge of Occupational Health, Safety and Environmental (HSE) concepts and practices with sufficient detail to enable them to function in a safe and healthy way and to deal with health and safety problems and issues.

#### F5.4.4 Training programme

The Contractor's proposed training programmes shall be subject to the approval of the Employer's Agent (or the approval of the Project Management Team (PMT) in the case of training for Targeted Enterprises in terms of Part G: Small Contractor Development, where applicable), and the Contractor shall, if so instructed by the Employer's Agent or the PMT, alter or amend the programmes and the course content to meet any additional needs identified.

The Contractor shall be responsible for everything necessary for the delivery of the training programmes, including:

- (a) the provision of the trainers;
- (b) the provision of a suitable secure venue, complete with adequate furniture, lighting, air conditioning, power and ablution facilities:
- (c) the provision of all necessary stationery, consumables and study materials;
- (d) the transportation of the learners to and from the training facility;
- the payment of wages to all learners during the classroom training at a rate equal to the minimum wage rate as set on an annual basis in the Ministerial Determination for the Expanded Public Works Programme;
- (f) the provision of any relevant Personal Protective Equipment (PPE) required for the training; and

(g) additional supervision of the learners during the practical learning stage of the training carried out by constructing relevant elements of the Works (wages for the learners during this stage of the training will be paid through the rates tendered for the relevant scheduled work items for those elements).

At the successful completion of each course, the Contractor's training provider shall, as proof of attendance and completion, issue each learner with a certificate indicating the course content.

The training provider shall also ensure that each unit standard contributing towards a full learnership qualification and successfully completed by the learner is entered onto the national database.

The Contractor shall keep comprehensive records of the training given to each learner and the certificates issued, and shall provide copies of such records to the Employer's Agent when required.

The Contractor shall also complete and submit to the Employer's Agent each month, in a format acceptable to the Employer (using the EPWP Data Collection Tool template), a return detailing the training provided, both for the month and cumulatively for the contract.

#### F5.5 In-service training

The Contractor shall, from the commencement of the contract, implement an in-service training programme in which the various skills required for the execution and completion of the Works are imparted to the EPWP participants engaged thereon.

Throughout the duration of the contract, the EPWP participants shall be trained progressively through the various stages of each particular type of work in which they are engaged, and their work shall be supervised and monitored and their methods corrected where necessary.

The in-service training programme shall be submitted with the initial Works programme. The Contractor shall record the progress in relation to this programme on a monthly basis, and this progress report shall be incorporated in the monthly site meeting minutes and the payment certificate.

The Contractor shall provide sufficient skilled and competent trainers to train all EPWP participants engaged on the contract in the various skills required to enable them to carry out the required construction activities.

The in-service training of EPWP participants shall take place before commencement of the relevant construction activity, and the Contractor shall take into account in his programme the lead time required for such training. All in-service training shall be deemed to be an element of the relevant construction activity.

All formal in-service training shall be documented in terms of the EPWP Data Collection Tool template, and shall be accompanied by an attendance register of the EPWP participants on the applicable days.

All EPWP participants shall be remunerated at their agreed wage rate in respect of the time spent undergoing in-service training. The cost of the Contractor's in-service training obligations shall be deemed to be covered by the sums and rates tendered for items B13.01(a), (b) and (c) in the bill of quantities.

On termination of their employment, the Contractor shall provide each EPWP participant engaged on the contract with a certificate of service on which the following information shall be recorded:

- (i) name of the Contractor;
- (ii) name of the project / contract;
- (iii) name of the employee;
- (iv) nature of the work satisfactorily executed by the EPWP participant and the time spent thereon;
- (v) nature and extent of training provided to the EPWP participant; and
- (vi) dates of service.

#### F5.6 Training venue facility

The training venue facility to be provided by the Contractor shall be constructed, furnished and fully serviced for the duration of the contract in accordance with Chapter 1.4 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

In order to minimise the cost of transporting the learners for training, the facility shall be located in secure premises on the Site, or in close proximity thereto.

This facility shall be used to deliver all training, irrespective of whether it is delivered in terms of Part E or Part F of the Particular Specifications.

The facility shall accommodate a class of up to 25 learners and shall comprise the following:

(a)	Lecture room (interior area)	=	$48 \text{ m}^2$
(b)	Ablutions (male)	=	$6 \text{ m}^2$
(c)	Ablutions (female)	=	$6 \text{ m}^2$
(d)	Chairs for learners (individual chairs, with backs)	=	25 off
(e)	Desk area for 25 learners (500 mm width)	=	12,5 m <sup>2</sup>
(f)	Chairs for trainers and management (individual chairs, with backs)	=	5 off
(g)	Table area for trainers and management	=	$3 \text{ m}^2$
(h)	220/250 volt power points	=	6 off
(i)	Double 80 watt fluorescent light fittings complete with ballast and tubes	=	6 off
(j)	Single incandescent light fittings complete with 100 watt globes	=	4 off
(k)	Wash hand basins complete with taps and drains	=	4 off
(l)	Fire extinguishers, 9,0 kg, all-purpose dry powder type, complete, mounte	d on	
	wall with brackets	=	2 off
(m)	Air conditioning units with 2,2 kW minimum capacity, mounted and with own p	ower	
	connection	=	4 off
(n)	Voltage stabilizers	=	2 off
(o)	Floodlights complete with poles and 500 watt minimum globes and controlled	ed by	
	photocells	=	2 off
(p)	White boards (3 m x 1,5 m)	=	1 off
(q)	Venetian blinds	=	12 m <sup>2</sup>

#### F6. MEASUREMENT AND PAYMENT

Item Unit

# F6.01 Provision of the training venue facility, including the cost of transporting the learners to and from this facility......lump sum (Sum)

The tendered lump sum for subitem F6.01 shall include full compensation for the provision of the training venue facility complete and serviced as specified, including for the provision of power, water, sewerage and cleaning services for the duration of the contract, for lighting, power points and voltage stabilizers, for air conditioning, blinds, fire extinguishers, floodlights, furniture and whiteboards, for the provision of security at the facility, for all other costs necessary to maintain the facility for the duration of the contract, and for the removal of the facility on completion of the contract.

The tendered lump sum shall also include full compensation for transporting the learners on each day of training from their place of work to this training venue facility, and back again after the training for the day has been delivered by the accredited trainers.

Payment of the lump sum shall be made in three instalments as follows:

The first instalment, 50% of the lump sum, shall be paid after the Contractor has met all his obligations regarding the provision of the training venue facility, complete and serviced as specified, and the facility has been successfully commissioned for use.

The second instalment, 35% of the lump sum, shall be paid when 75% of the training courses proposed in accordance with the Contractor's approved structured training programme have been delivered to the learners by the accredited trainers.

The third and final instalment, 15% of the lump sum, shall be paid when all training has been concluded and the facility has been dismantled and removed from the site.

Item Unit F6.02 Training of learners employed by the contractor or by the **Targeted Enterprise subcontractors:** (a) Generic skills: Training costs provisional sum (Prov sum) (i) (ii) Handling costs and profit in respect of subitem F6.02(a)(i) ...... percentage (%) Entrepreneurial skills: (b) (i) Handling costs and profit in respect of subitem F6.02(b)(i) ...... percentage (%) (ii) Construction skills: (c) (i) Training costs provisional sum (Prov sum) (ii) Handling costs and profit in respect of subitem F6.02(c)(i) ......percentage (%) Transportation and accommodation costs of selected learners only, (d) while receiving off-site training: Transportation and accommodation costs ...... provisional sum (Prov sum) (i) Handling costs and profit in respect of subitem F6.02(d)(i) ...... percentage (%) (ii)

Expenditure under subitems F6.02(a)(i), (b)(i), (c)(i) and (d)(i) shall be in accordance with clause 6.6 of the General Conditions of Contract 2015.

The provisional sum for each of subitems F6.02(a)(i), (b)(i) and (c)(i) is provided to cover the total costs of the required training in generic, entrepreneurial and construction skills respectively, including for the procurement of the services of the accredited trainers and their delivery of the training courses to the learners, the provision of all training materials including all stationery and study materials, the wages of the learners for the duration of the courses including the associated COIDA and UIF payments, and the provision of any tools and PPE that may be required during those courses incorporating practical training modules. The payment of wages to learners in terms of subitems F6.02(a)(i), (b)(i) and (c)(i) will only be made to those learners who attend and successfully complete each course of the approved training programme. Payment shall not be made to learners who, once selected, do not attend or only partially complete structured training courses.

The tendered percentage for each of subitems F6.02(a)(ii), (b)(ii) and (c)(ii) and (c)(ii) is the percentage of the amount actually spent under each of subitems F6.02(a)(i), (b)(i) and (c)(i) respectively, and shall include full compensation for the handling costs of the Contractor and the profit in connection with the provision of the training in generic, entrepreneurial and construction skills respectively, including for the costs of record keeping and reporting with respect to the training received by each learner.

The provisional sum for subitem F6.02(d)(i) is provided to cover all costs related to the transportation and accommodation costs of selected learners only, while receiving off-site training, where such learners have been specifically selected to receive such off-site training and where such training cannot be delivered using the training venue facility provided by the Contractor in terms of subitem F6.01.

The tendered percentage for subitem F6.02(d)(ii) is the percentage of the amount actually spent under subitem F6.02(d)(i), and shall include full compensation for the handling costs of the Contractor and the profit in connection with the transportation and accommodation costs of selected learners only, while receiving off-site training.

Item Unit

F6.03 Payments associated with the NYS programme:

(a)	Employment of NYS workers provisional sum (Prov sum)
(b)	Provision of tools and apparel for the NYS workers provisional sum (Prov sum)
(c)	Handling costs and profit in respect of subitems F6.03(a) and (b) percentage (%)
(d)	Training of NYS workers:
(i)	Provision of training for NYS workers provisional sum (Prov sum)
(ii)	Handling costs and profit in respect of subitem F6.03(d)(i) percentage (%)
(e)	Liaison with the Employer's project manager and the training service provider:
(i)	Liaison conducted by the Construction Managerhour (h)
(ii)	Liaison conducted by the senior site foremanhour (h)

The provisional sums provided under subitems F6.03(a) and (b) shall be expended in accordance with clause 6.6 of the General Conditions of Contract 2015.

The provisional sum under subitem F6.03(a) shall be used to cover the cost of employment payments made by the Contractor to the NYS workers, including the associated COIDA and UIF payments, all as authorised by the Employer's Agent.

The provisional sum under subitem F6.03(b) shall be used to cover all costs associated with the provision of the necessary tools and apparel, including safety apparel, for the NYS workers, and the facilities for the safe storage thereof, all as authorised by the Employer's Agent.

The tendered percentage under subitem F6.03(c) is a percentage of the total amount of expenditure approved by the Employer's Agent under the provisional sum subitems F6.03(a) and (b), and shall include full compensation for attendance by the Contractor, for the handling costs of the Contractor, and for the profit in connection with payments made by the Contractor with respect to the NYS programme implementation.

The provisional sum provided under subitem F6.03(d)(i) shall be expended in accordance with clause 6.6 of the General Conditions of Contract 2015.

The provisional sum under subitem F6.03(d)(i) shall be used to cover all costs associated with the provision of training for the NYS workers, including the cost of procuring the services of the accredited trainers and their delivery of the training courses to the NYS workers, and the provision of all training materials including all stationery and study materials.

The tendered percentage under subitem F6.03(d)(ii) is a percentage of the total amount of expenditure approved by the Employer's Agent under the provisional sum subitem F6.03(d)(i), and shall include full compensation for attendance by the Contractor, for the handling costs of the Contractor, and for the profit in connection with payments made by the Contractor with respect to the provision of training for the NYS workers, including for the costs of record keeping and reporting with respect to the training received by each NYS worker.

The unit of measurement for subitems F6.03(e)(i) and (ii) shall be the hour. The tendered rates shall include full compensation for all costs related to the Construction Manager and the senior site foreman respectively for time spent at formal liaison meetings authorised and convened by the Employer's Agent for the specific purpose of liaising with the Employer's project manager and / or the training service provider. The payment shall be made only for the time spent in the formal meeting itself. No payment shall be made for time spent during any other on-site liaison, telephonic liaison, e-mail or written correspondence liaison between these parties, or for liaison conducted with the Employer's project manager and / or the training service provider by any other member of the Contractor's site staff or head office personnel, the cost of all of which shall be deemed to be included in the Contractor's time-related obligations under subitem B13.01(c).

## **Expanded Public Works Programme:**

#### PPE BRANDING

### For EPWP Projects









# T-Shirt/Overall/Safety Vest Branding

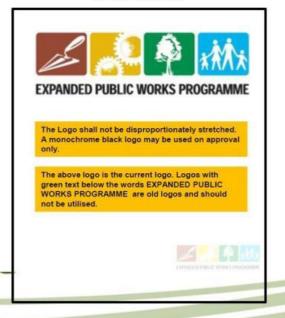


# Logo Options

#### Implementing Agent Examples



**EPWP LOGO** 

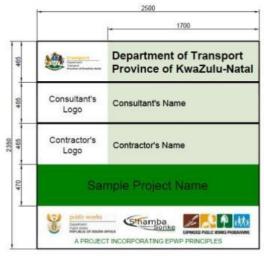


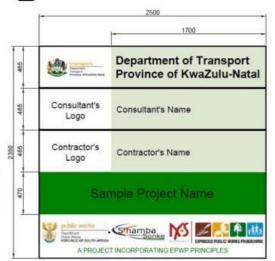
# Printing on PPE

PPE (Overalls) shall be Pantone Green with/without reflective tape and shall be branded as follows:

- Implementer's Logo (printed or embroidered) on the left front pocket location ie over the heart position. (full colour)
- EPWP logo on the right front pocket (printed or embroidered) location (full colour)
- The letters EPWP on the back of the PPE in BLACK
- The program name eg Vuk'uphile is to be printed on the right sleeve of short sleeved apparel and need not be placed on long sleeved apparel.
- Where required, lime green safety vests are to be branded with similar specification above. In this instance the Overalls may not necessarily be branded provided that the use of high visibility vests is mandatory.
- All artwork and PPE samples shall be approved and signed off by the consultant prior to printing/embroidering.

# **Project Signboard**







#### For further information contact:

#### Petronella Sithebe

Petronella.Sithebe@Kzntransport.gov.za 033-355-8023







#### PRO FORMA EPWP CONTRACT OF EMPLOYMENT

Contractor's Logo



This contract must be read in conjunction with the standard terms and conditions of employment on EPWP attached herein.

## **EPWP CONTRACT OF EMPLOYMENT between**

#### **Employer Details**

Name	Click or tap here to enter text.	Address	Click or tap here to enter text.
Telephone	Click or tap here to enter text.		onek or tup here to enter text.
Email	Click or tap here to enter text.		
Contact	Click or tap here to enter text.		

And

#### **Employee Details**

Name	Click or tap here to enter text.	Surname	Click or tap here to enter text.
ID:	Click or tap here to enter text.	Cell	Click or tap here to enter text.
Sex (M/F)	Male ☐ Female ☐	Disability	Yes □ No □
Primary Language	Click or tap here to enter text.	Physical	
Other Languages	Click or tap here to enter text.	Address	Click or tap here to enter text.
Highest Education Level Achieved	Click or tap here to enter text.	Local Municipality	Click or tap here to enter text.
Other qualifications	Click or tap here to enter text.	Ward	Click or tap here to enter text.
Grant Received (Y/N)	Yes □ No □	Grant type:	

#### **Employment Details**

Name of project:	Click or tap here to enter text.			
Job Title:	Click or tap here to enter text.			
Duties:	Click or tap here to enter text.			
Contract Start Date	Click or tap here to enter text.  Contract Finish Date  Click or tap here to enter text.			
The wage per task/day is:	R Click or tap here to en	R Click or tap here to enter text. I Hour/Day/task (Specifier to select correct rate)		

#### **Special Conditions**

You must be aware that this employment contract is a limited term contract and not a permanent job. This employment contract may be terminated for

- any one of the following reasons:

  a) The contractor does not get additional contracts from the EPWP.
  - Funding for the programme in your area comes to an end.
  - Underperformance: first offence final written warning. Second offence dismissal.

Payment

- a) You will be paid a fixed amount stipulated above for completing a fixed
- amount of work.
  b) The amount of work required for the agreed rate of pay will vary from task to task. You will be informed at the beginning of each task or group of tasks how much work you are expected to complete per day.
  c) You will only be paid for work completed.
- d) Payment during classroom training shall be R

Personal Protective Clothing will be supplied to the employee by the employer depending on the work to be performed, and will remain the property of the employee provided that the employee has worked for at least 3 months

#### Acceptance

Employer Name:	Employer Signature:	Employee Name:	Employee Signature:
Witness 1 Name:	Witness 1 Signature:	Witness 2 Name:	Witness 2 Signature:

#### APPENDIX E - Conditions of Service

#### Introduction

- 1.1. This document contains the standard terms and conditions for workers employed in elementary occupations on an Expanded public Works Programme (EPWP). These terms and conditions do NOT apply to persons employed in the supervision and management of an EPWP.
- 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 an EPWP;
- "worker" means any person working in an elementary occupation on an EPWP;
- d) "elementary occupation" means any occupation involving unskilled or semi-skilled work;
- e) "management" means any person employed by a department or implementing agency to administer or execute an EPWP;
  f) "task" means a fixed quantity of work;

  8.1.
- g) "task-based work" means work in which a worker is paid a fixed rate for performing a task;
- "task-rated worker" means a worker paid on the basis of the number of tasks completed;
- "time-rated worker" means a worker paid on the basis of the length of time worked.

#### 2. Terms of Work

- 2.1. Workers on an EPWP 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 an EPWP.
- Employment on an EPWP does not qualify as employment as a contributor for the purposes of the Unemployment Insurance Act 30 of 1966.

#### 3. Normal Hours of Work

- An employer may not set tasks or hours of work that require a 9.2. worker to work–
- a) more than forty hours in any week
   i. on more than five days in any week; and
- i. on more than five days in any week, and
- for more than eight hours on any day.
   An employer and worker may agree to
- 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.

   A task-rated worker may not work more than a total of 55

  9.4.

  9.5.
- hours in any week to complete the tasks allocated (based on a 40-hour week) to that worker.

  9,6.

#### 4. Meal Breaks

- 4.1. A worker may not work for more than five hours without taking 9.8. 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.
- 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

- 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

- 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
  - the worker's daily task rate, if the worker works for less than four hours:
- double the worker's daily task rate, if the worker works for more than four hours.
- A time-rated worker who works on a public holiday must be naid
  - the worker's daily rate of pay, if the worker works for less than four hours on the public holiday, double the worker's daily rate of pay, if the worker works for
  - double the worker's daily rate of pay, if the worker works fo more than four hours on the public holiday.

#### 9. Sick Leave

9.1.

9.3.

b)

99

- Only workers who work four or more days per week have the right to claim sick-pay in terms of this clause.
- 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.
- A worker may accumulate a maximum of twelve days' sick leave in a year.
- Accumulated sick-leave may not be transferred from one contract to another contract.
- An employer must pay a task-rated worker the worker's daily task rate for a day's sick leave.
- An employer must pay a time-rated worker the worker's daily rate of pay for a day's sick leave.
- An employer must pay a worker sick pay on the worker's usual payday.
- 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 absent from work for more than two consecutive days; or
- absent from work for more than two occasions in any eightweek period.
- 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.
- 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.

Employer Employee

#### 10. Maternity Leave

- A worker may take up to four consecutive months' unpaid maternity leave.
- 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. 14.3.
- 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.
  14.4.
- 10.5. A worker may begin maternity leave
  - a) four weeks before the expected date of birth; or
  - b) on an earlier date -
  - 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
- 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 EPWP 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;
- the employee's parent, adoptive parent, grandparent, child, adopted child, grandchild or sibling.

#### 12. Statement of Conditions

- 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 EPWP;
  - b) the tasks or job that the worker is to perform; and
  - the period for which the worker is hired or, if this is not certain, the expected duration of the contract;
  - d) the worker's rate of pay and how this is to be calculated;
- e) the training that the worker will receive during the EPWP.
- 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.
- An employer must supply each worker with a copy of these conditions of employment.

#### 13. Keeping Records

- Every employer must keep a written record of at least the following –
  - a) the worker's name and position;
  - in the case of a task-rated worker, the number of tasks completed by the worker;
  - 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 EPWP.

#### 14. Payment

- 14.1. An employer must pay all wages at least monthly in cash or by cheque or into a bank account.
- 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.
- 4.4. 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.
- 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;
- in a sealed envelope which becomes the property of the worker.
- An employer must give a worker the following information in writing –
  - a) the period for which payment is made;
  - 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.

#### 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.
- 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;
  - state that the worker received a greater amount of money than the employer actually paid to the worker, or
  - pay the employer or any other person for having been employed.

#### 16. Health and Safety

- 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 EPWP;
  - d) use any personal protective equipment or clothing issued by the employer;
  - e) report any accident, near-miss incident or dangerous behaviour by another person to their employer or manager.

#### 17. Compensation for Injuries and Diseases

Employer Employee

- It is the responsibility of the employers (other than a contractor) to arrange for all persons employed on an EPWP 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.
- 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.

  A worker will not receive severance pay on termination.
- 18.2.
- A worker is not required to give notice to terminate 18.3 employment. However, a worker who wishes to resign should advise the employer in advance to allow the employer to find a replacement.
- 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.
- 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

- On termination of employment, a worker is entitled to a certificate stating
  - the worker's full name;
  - the name and address of the employer;
  - the EPWP on which the worker worked; C)
  - d) the work performed by the worker;
  - any training received by the worker as part of the EPWP; e)
  - the period for which the worker worked on the EPWP;
  - any other information agreed on by the employer and worker. Either party can terminate this agreement with four weeks written notice. In the case where an employee is illiterate notice may be given by that employee verbally.

# EPWP DATA COLLECTION TOOL TEMPLATE (PRO FORMAS OF MICROSOFT EXCEL SPREADSHEETS)

EPWP REGISTRATION FORM			
Field requested	Description if needed	Please complete the sections in white	
	Project Details		
Profile ID	Generated by the system		
Project Name	The name of the project		
Project Reference Number	Contract number		
Project description	Full description of what is happening in the project (as per the appointment letter) and the <b>community</b>		
Project description	benefiting from the project		
	Duration		
Project Start Date	Planned Start date of the particular contract		
Project End Date	Planned End date of the particular contract		
	Overall Contract budget (excluding professional		
Estimated Budget	fees) for Current Financial Year		
	Project Location		
Province	In which province is the project implemented?	KZN	
District Municipality	Under which District Municipality does this project falls?		
. ,	Under which Local Municipality does this project		
Local Municipality	falls?		
Latitude (in decimal format)	Is generated by the system		
Longitude (in decimal	Is generated by the system		
format)			
	Project Location per site		
Locality name	Where exactly is the project implemented? (Ward name)		
Subplace	Town / Village		
Ward	The project site is located in which ward?		
Government facility	Landmark near the project (Post		
	office/school/clinic/library)		
Spatial Data Type	Geopoint (structure)/ Line (road)/ Polygon(area)		
Site physical address	Physical address of the site office		
	Public Body Details		
Public body sphere	In which sphere is the project implemented?	Provincial	
Reporting public body that	(National, Provincial or Municipal) Which Institution or Department that owns /		
is the project owner (and	approved this project (Education, Health, City of	KZN Department of	
will report on the project)	Tshwane Metro etc.)	Transport	
Department in the Public	Which department /unit is responsible for this	KZN Department of	
body that is responsible for	project? (e.g. Roads & storm water, Education,	Transport	
the project	Community safety etc.)	Transport	
Implementing public body	In which sphere is this project implemented?	Provincial	
type Public body that will	(Metro,Distr,Mun, National or Provincial Dept.)	KZN Department of	
implement the project	Which institution that implements the project?	Transport	
	Project Implementation		
Is this the project on the municipal IDP	Yes / No	N/A	
IDP reference number	The number reflected in your Municipal IDP	N/A	
allocated to the project	document	IN/A	
	EPWP Details		
EDWD 0	The project is implemented in which sector?	Indian ( )	
EPWP Sector	(Infrastructure, Environment & culture, Non-state or	Infrastructure	
	Social) The project is implemented under which		
EPWP Programme	programme?		
EDM/D Cub Draggarana	The project is implemented under which sub-		
EPWP Sub Programme	programme?		

EPWP BUSINESS FORM				
Field requested	Description if needed	Please complete the sections in white		
Project Details				
Profile ID	Generated by the system			
Project Name	The name of the project			
Project Reference Number	Contract number			
Project description	Full description of what is happening in the project (as per the appointment letter) and the community benefiting from the project			
	Duration			
Project Start Date				
Project End Date				
Estimated Budget	Project Budget			
	Project Location			
Province		KZN		
District Municipality	Under which District Municipality does this projects falls			
Local Municipality	Under which Local Municipality does this projects falls			
Latitude (in decimal format)	GPS coordinates			
Longitude (in decimal format)				
ioimai)	Public Body Details			
Public body	i ubile body betails			
sphere	Such as Municipal or Provincial	Provincial		
Reporting public body that is the project owner (and will report on the project)	Which Department approved the project in (education, Health etc.)	KZN Department of Transport		
Department / Unit in the Public body that is responsible for the project	Which Department budgeted for the project e.g. Education, Health Directorate	KZN Department of Transport		
Implementing public body type	Example(Local Municipality, Distr. Mun or Provincial Dept.	Provincial		
Public body that will implement the project	Infrastructure, Environment or Social	KZN Department of Transport		
Is this project on the Municipal IDP	Municipal projects	N/A		
IDP reference number allocated to the project		N/A		

	EPWP Details	
	The project is implemented in which sector?	
EPWP Sector	(Infrastructure, Environment & culture, Non-state or Social)	Infrastructure
EPWP programme	The project is implemented under which programme?	
EPWP Sub Programme	The project is implemented under which sub- programme?	
	Budget Amount-(Allocations for the	project duration)
Funding Body	Which Dept. is funding the project	KZN Department of Transport
Funding Year	Financial year/s for the project	
Total Budget Amount	(Exclude Professional Fees)	
Incentive Grant(e.g. landcare / EPWP grant)	Grant funding received	
Total wages paid for the duration of the projects	What amount will be spent on wages during the duration of the project	
Wage Rate	Daily Wage rate to be paid during productive work	
Stipend Rate	Daily wage rate to be paid during training	
UIF	The amount being paid to UIF (if applicable)	
COIDA	The amount being paid to COIDA(if applicable)	
Training	What amount will be spent on training	
Administration	The Administration costs	
Equipment and materials	Budget for Materials and Equipment	
Other	If other where chosen describe the other Such as Professional fees)	
Describe other		
	Project Outputs and Trai	ining
Planned Primary Output	eg walkways, gabions, kerb * channel, km of road constructed	
Description of Planned Primary Output	Describe the project output (end product and not the milestone) (e.g. kms of tar road constructed) Start with the unit of measure such as number of, kms, ha, sqms etc	
Unit of measure of primary output	Eg. m, m², m³, km, no, ha etc	
Planned primary output quantity	Specify the quanity of output planned	
Number of persons to be trained	How many persons are targeted for on job training	

	Contact person	
Title		
Initials		
First Name		
Surname		
Email		
Tel (Office)		
Fax Number		
Cell Number		
Physical Address 1		
Physical		
Address 2	Person responsible for the Project in the Public Body	
Physical	(Project Manager)	
Address 3		
Physical Address 4		
Postal		
Address 1		
Postal		
Address 2		
Postal		
Address 3		
Postal Address 4		
Position of		
person		

				Participant's	perso	nal det	ails					Grants		erience/ teracy	Loca Deta		Nation- ality	Но	ousehold l	Details			Quality C	Check	
No	First Name as per ID	Initials	Surname	ID number	Disability (Y/N)	Education Level	Start Date	End Date	Language ID	Address	Cell Number	Government Grant (Y/N) and Type	Other	Other Language 2	District Municipality	Local	Nationality (RSA/ Non- RSA)	Number of people in	Number of Dependants in Household	Number of Children attending	Picture Clear	Text clear	Certification within 3 months of employment	Clear certification	Commissioner details clear

						Participa	ant Training Da	ata					
Course ID	Course Name	Code	Training category (Accredited / non- accredited)	Type of training course (Unit standard, Trade Titles, Short courses, Public body specific)	Start	End (for the entire training duration)	Number of Trainees	Number of Days	Cost (for the entire training course)	Status of training (Not started, In progress, Completed)	Training Provider Name	Training Provider Contact Number	Training Provider Address
_						-							

	EPWP Monthly Progress Form	
Field requested	Description if needed	Please complete the sections in white
	Project Details	
Profile ID	full descripton of what is happening in the project (as per the appointment letter) and the community benefiting from the project	
Project Name	The name of the project	
Project Reference Number	Contract number	
Project description	Full descripton of what is happening in the project (as per the appointment letter) and the community benefiting from the project	
	Month	
Reporting Month		April
	Budget Expenditure	·
Cumulative Expenditure Amount	What is the Overall amount spend on this project?	
Current Expenditure Amount	What is the amount spend including all grants for this month?	
Wages	How much paid on wages for this month only?	
UIF	How much paid on UIF for this month only?	
COIDA	How much paid on COIDA for this month only?	
Stipends for training	Amount paid to participants whilst on training (this month only)	
Amount spent on Tenderers for training	How much paid to Tenderers for training for this month only?	
Training	Total Cost of training for this month? (number captured on ERS)	
Administration	How much paid on administration for this month only?	
Equipment and materials	How much paid on equipment and materials for this month only?	
Other	How much paid on other?	
Describe other	Be specific e.g. Consulting fees, Transport etc.	
Project output description	Describe the project output (end product and not the milestone) (e.g. kms of tar road constructed) Start with the unit of measure such as number of, kms, ha, sqms etc	
Unit of measure of primary output	Eg. m, m², m³, km, no, ha etc	
Cumulative primary output achieved	Since the onset of the project	
Quantity Achieved	enter numeric output for this month only	
Percentage achieved	How much work done / achieved in percentages?	
	EPWP Branding	
Branding compliant	Yes / No	
Date that the branding was provided	When was the project branded?	
Has a photo of project branding been provided?	Yes / No	
First name of Official Who Branded Project	Official Name	
Surname of Official Who Branded Project	Official Surname	
Phone number of official who erected branding for the project	Official contact number	
Give the public body reference and name, and organisational details of the person that provided branding.	Public body details ( reference & name)	

#### **Department of Transport**

First Name	Initials	Surname	ID number	Date Of Birth	Wage Rate	Total Paid Days	Amount Paid	Work Days	Training Days Paid	Training Days Non Paid	Total Training Days	Training Course ID	Project Profile ID	Month	Year	Beneficiary Code

#### CONTACT NO.: ZNB00771-00000-00-PMR-INF-21-T

EPWP PROJECT FILE CH	ECKLI	<u> 51</u>
Project Name		
Region		
Project Location		
Ward		
Number/Location		
<u>'</u>		
Item	In file	Comments
item	111 1110	Comments
	(Y/N)	
Business Plan		
(submitted once at an initial stage of a project)(in case of a multi-year project,		
indicate budget amounts for all financial years and provide a breakdown for the		
respective year)		
Attendance register / Time sheets for workers on – site.		
(please ensure days worked equate to days recorded on the data collection		
form, days paid on acknowledgment of receipt/payslip and payment upload)		
Data collection form		
(ensure all profile fields are populated and updated including disability)		
Payment upload form		
(ensure paid days equate to days worked or give reasons for variance)		
Training capture form  (if there is Training provided)		
(if there is Training provided)  Proof of payment, either/or,		
- Payslip		
- Acknowledgment of receipt of payment (where payslips are not issued)		
Proof of Provincial Steering Committee and/or OSS records in a form of:		
- Minutes,		
Attendance registers, records on beneficiary employment recruitment		
Persal Checks:		
Ensure that Persal checks are done for all new participants and that evidence		
is filed and sent to H/O		
Employment Contracts		
(Applies to new work opportunities created).		
Certified copies of IDs		
(Submitted once if new employee has been appointed).		
ID Photos		
(submitted once if new employee has been appointed)		
Proof of UIF and COIDA registration		
(submitted once if new employee has been appointed)		

Checked by:		
Signature:	 Date:	

IDENTITY NUMBER:



# The Attendance Register for on-site Workers Reporting month: \_\_\_\_\_\_ Project Name: \_\_\_\_\_ Surname: \_\_\_\_\_ First Name:

Day	Date	Time In	Signature	Time Out	Signature	Report On Any Formal Training Provided In The Reporting Month
WEEK 1						
MONDAY						
TUESDAY						
WEDNESDAY						
THURSDAY						
FRIDAY						
WEEK 2						
MONDAY						
TUESDAY						
WEDNESDAY						
THURSDAY						
FRIDAY						
WEEK 3						
MONDAY						
TUESDAY						
WEDNESDAY						
THURSDAY						
FRIDAY						
FRIDAT						
WEEK 4						
MONDAY						
TUESDAY						
WEDNESDAY						
THURSDAY						
FRIDAY						
WEEK 5						
MONDAY						
TUESDAY						
WEDNESDAY						
THURSDAY						
FRIDAY						
	L					
Total Days work	ed					

#### **C3.3 PARTICULAR SPECIFICATIONS**

PART G: SMALL CONTRACTOR DEVELOPMENT

#### PART G: SMALL CONTRACTOR DEVELOPMENT

CONTACT NO.: ZNB00771-00000-00-PMR-INF-21-T

#### G1. SCOPE

This part provides the procedures that relate to the Contractor implementing the Employer's policies and initiatives, enabling the Employer to realise its social and development objectives through the participation of Targeted Enterprises and Labour in the construction of the Works. The approach adopted enables the delivery of a wide range of social and economic deliverables, including the employment of local resources, employment opportunities for labour intensive works, business opportunities, enterprise support and development programmes, and skills development.

The participation of Targeted Enterprises and Labour, measured in monetary terms, is specified as a contract participation goal by the Employer, for the Contractor to achieve.

#### G2. DEFINITIONS

Unless inconsistent with the context, in these specifications the following terms, words or expressions shall have the meanings hereby assigned to them:

- G2.1 "Black People" has the meaning assigned to it in section 1 of the Broad-Based Black Economic Empowerment Act, 2003 (Act No 53 of 2003), and the Broad-Based Black Economic Empowerment Amended Act, 2013 (Act No 46 of 2013).
- G2.2 "**Contract Participation**" means a process whereby the Employer sets a target to achieve its social and development objectives through the participation of Targeted Enterprises and Labour in the construction of the Works.
- G2.3 "Contract Participation Goal (CPG)" means the value of goods, services and works for which the Contractor contracts Targeted Enterprises and Labour exclusive of any value added tax which the law requires the Employer to pay to the Contractor, expressed as a percentage of the Contract Price (adjusted to exclude penalties and value added tax).
- G2.4 "**EME**" means an exempted micro enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No 53 of 2003).
- G2.5 "Military Veteran" has the meaning assigned to it in section 1 of the Military Veterans Act, 2011 (Act No 18 of 2011).
- G2.6 "**people with disabilities**" has the meaning assigned to it in section 1 of the Employment Equity Act, 1998 (Act No 55 of 1998).
- G2.7 "**Project Management Team (PMT)**" means a team established at the commencement of the contract, comprising a representative from each of the Employer, the Employer's Agent and the Contractor, that will be responsible for various functions related to the implementation of the Contract Participation process.
- G2.8 "QSE" means a qualifying small enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No 53 of 2003).
- G2.9 "Target Area" means the geographic area stated in the Contract Data.
- G2.10 "**Targeted Enterprise**" means an entity to which the Contractor subcontracts a percentage of the contract value as a condition of contract and which is:
  - (i) an EME or QSE which is at least 51% owned by black people;
  - (ii) an EME or QSE which is at least 51% owned by black people who are youth;
  - (iii) an EME or QSE which is at least 51% owned by black people who are women;
  - (iv) an EME or QSE which is at least 51% owned by black people with disabilities; or

- (v) an EME or QSE which is at least 51% owned by black people who are military veterans.
- G2.11 "Targeted Labour" means individuals, employed by the Contractor and subcontractors in the performance of the contract, who permanently reside in the target area or who are recognised as being residents of the target area on the basis of identification and association with and recognition by the residents of the target area, and excludes any labour employed by suppliers and manufacturers.
- G2.12 "Youth" means persons between the ages of 18 and 35.

#### G3. CONTRACT PARTICIPATION

#### G3.1 Objective

In order for the Employer to realise its social and development objectives, the Contractor is required to provide business and labour opportunities through the participation of Targeted Enterprises and Labour in the construction of the Works. The participation of Targeted Enterprises and Labour, measured in monetary terms, is specified by the Employer as a contract participation goal, for the Contractor to achieve.

#### **G3.2** Contract Participation process

The Contractor shall engage Targeted Enterprises and Labour in the performance of the contract to the extent that the total monetary value of such engagements exclusive of any value added tax, expressed as a percentage of the Contract Price (adjusted to exclude penalties and value added tax), is not less than the Contract Participation Goal specified in the contract.

#### G3.2.1 Contract Participation plan

The Contractor shall submit to the Employer's Agent details of his plan to achieve the Contract Participation Goal with his initial programme in terms of which he will carry out the Works. The Contract Participation plan shall be submitted with all subsequent adjusted programmes. The tender process for the procurement of Targeted Enterprise subcontractors shall be indicated on the programme.

The Contract Participation plan shall indicate the expected delivery dates of goods provided by Targeted Enterprises, and the commencement and completion dates of work and services to be performed by all the Targeted Enterprises and Labour engaged on the contract for the purpose of securing credits towards the Contract Participation Goal.

The information contained in the Contract Participation plan facilitates, in the first instance, the monitoring by the Employer's Agent of the performance of the Contractor in terms of his Contract Participation Goal obligations and, in the second instance, the making of any adjustments by the Contractor to compensate for quantitative underruns, the elimination of items contracted to Targeted Enterprises or Labour, or any other reason beyond the Contractor's control which may be acceptable to the Employer.

#### G3.2.2 Targeted Enterprises

The Contractor shall engage Targeted Enterprises comprising subcontractors and suppliers directly or indirectly in the performance of the contract. Prior to such Targeted Enterprises being engaged, the Contractor shall submit to the Employer's Agent documentation in a form approved by the Employer's Agent, to confirm that the enterprise satisfies the eligibility criteria for recognition as a targeted enterprise.

The Contractor shall enter into written contractual agreements with all the Targeted Enterprises, in a form approved by the Employer's Agent. Copies of such agreements and the written acceptance thereof shall be submitted to the Employer's Agent.

In the case of Targeted Enterprise subcontractors, only those subcontractors procured through a tender process as specified in clause G6 Tender Process for Targeted Enterprise Subcontractor Procurement, shall qualify to have their contribution count towards the Contract Participation Goal.

The Contractor may not subcontract more than 25% of the Contract Price to Targeted Enterprises whose B-BBEE status level of contributor is lower than the Contractor's.

#### G3.2.3 Targeted Labour

The Contractor shall engage Targeted Labour directly or indirectly in the performance of the contract. It is a requirement of the contract that such Targeted Labour be engaged by means of a written contract, in a form approved by the Employer's Agent.

The requirements for the engagement of such Targeted Labour is contained in Part F: Expanded Public Works Programme.

#### **G3.3** Contract Participation Goal

The Contract Participation Goal comprises two targets, namely subcontracting of the Works to Targeted Enterprises, and employment of Targeted Labour. The Contract Participation Goal targets are stated as a percentage unit of measure in the Contract Data, for the Contractor to achieve to the extent that the total monetary value of such subcontracting and employment engagements exclusive of any value added tax, expressed as a percentage of the Contract Price (adjusted to exclude penalties and value added tax), are each not less than the respective Contract Participation Goal target stated in the contract.

#### G3.3.1 Monthly submission of supporting documentation

The Contractor shall prepare and submit on a monthly basis to the Employer's Agent in a form approved by the Employer's Agent, the following:

- (i) a brief report which describes the commercially useful functions performed by the Targeted Enterprises and Labour in the performance of the contract, both during the interim period and on a cumulative basis:
- (ii) a schedule reflecting the estimated total value of the contracts, the cumulative value of the contracts, and the value of goods provided, and work and services performed over the period for which payment is claimed with respect to each and every Targeted Enterprise; and
- (iii) a schedule which lists the names, identity numbers, gender, trade/occupation, period of employment, employment number and the like, as directed by the Employer's Agent, together with the respective wage rates payable in respect of Targeted Labour, including the monetary value of wages paid both on a cumulative basis and over the period for which payment is claimed.

Should random inspections conducted by the Employer's Agent on Targeted Enterprise and Labour activities indicate that such Targeted Enterprises and Labour are not performing in accordance with the requirements of the contract, the Contractor shall provide, in addition to the monthly reporting requirements, separate weekly resource returns and any other relevant information with respect to such Targeted Enterprises and Labour in a form approved by the Employer's Agent.

#### G3.3.2 Contract Participation Goal credits

#### G3.3.2.1 Granting of credits

The Employer's Agent shall certify the value of the credits counted towards the Contract Participation Goal whenever a claim for payment is issued to the Employer, and shall notify the Contractor of the amount. The value of the credits counted shall not include any expenditure on Goods and Labour which forms part of the monetary value of the contributions made by Targeted Enterprise subcontractors.

Credits towards the Contract Participation Goal shall be granted by converting the value of the following (including contract price adjustment and rise/fall on special materials, but excluding value added tax) to a percentage of the Contract Price (adjusted to exclude penalties and value added tax), as relevant:

- (i) subcontracting CPG:
  - the total monetary value of the contributions made by Targeted Enterprise subcontractors in fulfilling contractual obligations; and
  - expenditure on Goods required for the contract, which are obtained from Targeted Enterprise suppliers.

- (ii) employment CPG:
  - the total monetary value of wages paid to Targeted Labour.

#### G3.3.2.2 Denial of credits

No credits shall be granted should the Contractor make a direct payment to a supplier or manufacturer on behalf of a Targeted Enterprise when such payment is recovered by making deductions from payments to the Targeted Enterprise in connection with the contract; or should the Contractor fail to enter into a written agreement with the relevant Targeted Enterprise.

In addition, credits claimed towards the Contract Participation Goal shall be denied where written contractual agreements contain any of the following:

- (i) a right to set off in favour of the employing Contractor not provided for by law;
- (ii) authoritarian rights given to the employing Contractor or his agent, with no recourse to independent adjudication in the event of a dispute arising;
- (iii) payment procedures based on a pay-when-paid system;
- (iv) a dispute resolution process which does not include inexpensive alternative dispute resolution procedures, such as mediation or adjudication, but which only makes use of formal proceedings such as arbitration or litigation; or
- (v) conditions which are more onerous than those which exist in the main contract.

Credits shall be denied should Targeted Enterprises not adhere to statutory labour practices or fail to perform commercially useful functions.

#### **G3.3.3** Contract Participation Goal evaluation

The Contractor shall, upon completion of each individual Targeted Enterprise's contract, issue a completion certificate and certify the amount paid to such Targeted Enterprises. The Contractor shall submit the certificates, counter-certified by the relevant Targeted Enterprises, to the Employer's Agent for record-keeping purposes. The Contractor shall furnish justification to the Employer's Agent whenever it is not possible to obtain such counter-certification.

The Contractor shall, upon termination of the services of the individuals classed as Targeted Labour engaged in activities relating to the performance of the contract, certify the amount paid to such individuals and submit the certificate, counter-certified by the relevant individual, to the Employer's Agent for record-keeping purposes. The Contractor shall furnish justification to the Employer's Agent whenever it is not possible to obtain such counter-certification.

On completion of the contract, the Employer's Agent shall determine the final credits to be granted towards the Contract Participation Goal targets, by converting the value of credits (including contract price adjustment and rise/fall on special materials, but excluding value added tax) to a percentage of the Contract Price (adjusted to exclude penalties and value added tax)

#### G3.3.4 Sanctions

In the event that the Contractor fails to substantiate that any failure to achieve any of the Contract Participation Goal targets, is due to quantitative underruns, the elimination of items contracted to Targeted Enterprises, or any other reason beyond the Contractor's control which may be acceptable to the Employer, the Contractor shall be liable for a financial penalty as prescribed in clause SCC 4.1.1 of section C1.2.1.2 Special Conditions of Contract. The subcontracting financial penalty shall be calculated as follows:

$$P = 0.05 x [ (D - D_0)/100 ] x C_A$$

where

D is the Contract Participation Goal percentage

- D<sub>o</sub> is the Contract Participation Goal percentage which the Employer's Agent certifies, based on the credits passed, as being achieved upon completion of the contract
- C<sub>A</sub> contract amount which is the Contract Price (adjusted to exclude penalties and value added tax)
- P is the monetary value of penalty payable

The evaluation of the Contractor's achievement of the Contract Participation Goal for the subcontracting of the Works to Targeted Enterprises, shall be undertaken monthly by the Employer's Agent based on the accumulative achievements in comparison to the programmed utilisation of Targeted Enterprises, as a means of monitoring the Contractor's performance in achieving the Contract Participation Goal.

Failure by the Contractor to achieve the Contract Participation Goal target by the time of Practical Completion, shall result in the financial penalty being applied as prescribed in this clause. The Employer's Agent shall make a final determination of the Contractor's achievement of the Contract Participation Goas based on the value of the Final Payment Certificate.

#### G4. DUTIES OF THE EMPLOYER AND ENGINEER

The Employer, Engineer, and the Contractor, or their representatives, are parties to the Project Liaison Committee and are co-responsible for successful project Stakeholder and Community liaison. The Employer and the Engineer also play a supporting role in the successful implementation of the Employer's Targeted Labour and Targeted Enterprise utilisation and development goals.

To implement the Employer's Targeted Labour and Targeted Enterprise goals, the Employer and the Engineer shall provide support to the Contractor by executing the following duties:

- (i) Make recommendations to the Contractor in the identification and structuring of the work packages to be subcontracted to Targeted Enterprises, and agree to the scope and extent of the work packages.
- (ii) Verify that the Targeted Enterprise Database(s), have been updated prior to the letting of every new set of subcontracts.
- (iii) Endorse all Databases, and approve tender procedures, tender documents, tender submission requirements and adjudication processes for the subcontracting of Targeted Enterprises.
- (iv) Review all tender adjudication reports and monitor that the criteria and procedures applied by the Contractor to subcontract work to Targeted Enterprises are executed in a fair and transparent manner, and are in accordance with the Employer's standards.
- (v) Endorse subcontract agreements and ensure that the conditions of subcontracting with Targeted Enterprises are fair and transparent and within the prescripts of the Contract requirements.
- (vi) Monitor the management of Targeted Enterprise subcontracts and ensure that conditions such as the application of penalties and the termination of contracts, are applied in a fair and transparent manner and within the prescripts of the agreement.
- (vii) Verify that the Labour Database(s) from which Targeted Labour will be employed is updated prior to every new Labour intake.
- (viii) Monitor that the criteria and procedures applied by the Contractor to employ Targeted Labour are executed in a fair and transparent manner, and is within the Contract requirements.
- (ix) Monitor that the conditions of employment of Targeted Labour are applied in a fair and transparent manner and within the prescripts of the current and relevant Labour legislation.
- (x) Make recommendations to the Contractor in the identification of the training requirements of Targeted Enterprises and Targeted Labour and approve the proposed training programmes.
- (xi) Monitor that training programmes and support programmes, which the Contractor committed to, are implemented and executed as intended.

## CONTACT NO.: ZNB00771-00000-00-PMR-INF-21-T

## G5. SPECIFIC WORK TO BE CARRIED OUT BY TARGETED ENTERPRISE SUBCONTRACTORS

#### G5.1 Subcontract scope of work

It is a requirement of the contract that only those Targeted Enterprise subcontractors procured through a tender process by the Contractor, shall qualify to have their contribution count towards the Contract Participation Goal.

For this particular contract, the following listed work has been identified in terms of this Particular Specification, Part G, as suitable for execution by Targeted Enterprise subcontractors in order to assist the Contractor in achieving the Contract Participation Goal:

- (i) Accommodation of traffic.
- (ii) Clearing and grubbing.
- (iii) Construction and clearing of drains.
- (iv) Installation of prefabricated culverts including inlet and outlet structures.
- (v) Concrete channelling and concrete linings for open drains.
- (vi) Milling.
- (vii) Paving of asphalt wearing course.
- (viii) Erection of road signs.
- (ix) Application of road marking and installation of road studs.
- (x) Finishing the road and road reserve.
- (xi) Other work identified by the Employer to be executed in the community area.

The work to be carried out by Targeted Enterprise subcontractors is not limited to the work listed above, and the Contractor may need to engage Targeted Enterprises and Labour on other aspects of the Works in order to achieve the Contract Participation Goal.

#### **G5.2** Subcontract work packages

The work activities shall be grouped into varying sizes of work packages according to the CIDB contractor grading designation and class of construction works. The typical scope of work may include the following class of construction works and specialist works:

- (i) Class of construction works Civil Engineering (CE); and
- (ii) Specialist Works:
  - Asphalt works (SB);
  - Demolition and blasting (SE);
  - Piling (SJ);
  - Road marking and signage (SK); and
  - Structural steelwork fabrication and erection (SL).

For this contract the minimum number of prescribed work packages for execution by Targeted Enterprise subcontractors is indicated in table F1/1 according to the CIDB contractor grading designation and the scope of work according to the Chapters of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

Provision is made for each of the work packages to include Chapter 1.3 Contractor's Establishment on Site and General Obligations to cover the costs of the Targeted Enterprise subcontractors' own establishment and general obligations.

		TARGETED ENTERPRISE CIDB CONTRACTOR GRADING DESIGNATION										
SECTION	DESCRIPTION	1CE PE Max: R0,20 m	2CE PE Max: R0,65 m	3CE PE Max: R2,00 m	4CE PE Max: R4,00 m	5CE PE Max: R6,50 m	6CE PE Max: R13,00 m					
3.1	DRAINS		x									
3.2	CULVERTS					x						
3.3	CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS	x				х						
11.1	PITCHING, STONEWORK AND PROTECTION AGAINST EROSION	x										
11.2	NON-STRUCTURAL GABIONS		x									
11.3	GUIDE BLOCKS AND KILOMETRE MARKERS	x										
11.4	ROAD RESTRAINT SYSTEMS			x								
11.5	FENCING		х									
11.6	ROAD SIGNS		x									
11.7	ROAD MARKINGS AND ROAD STUDS		x									
11.8	LANDSCAPING AND PLANTING PLANTS			x								
12.6	MECHANICALLY STABILISED FILL AND GABIONS											
12.8	GROUND DRAINAGE		x									
12.9	SLOPE PROTECTION MEASURES				x							
12.12	CONSTRUCTION DEWATERING	х										
13.1 -13.8	STRUCTURE						х					
14.5	ANCHORING OF REINFORCEMENT, GROUTING AND CRACK INJECTION											
14.7	PROTECTIVE COATINGS AND TREATMENTS FOR CONCRETE				x							
	TOTAL NUMBER OF TARGETED ENTERPRISE SUBCONTRACTORS PRESCRIBED FOR EACH CIDB CONTRACTOR GRADING DESIGNATION	4	6	2	2	2	1					

#### NOTE:

X\* denotes inclusion of Chapter 1.3 for all subcontract work packages.

X(1) denotes "one" prescribed subcontract work package according to the respective CIDB contractor grading designation and the scope of work according to the Chapter of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

CONTACT NO.: ZNB00771-00000-00-PMR-INF-21-T

For subcontractors with a higher CIDB contractor grading designation, it may be possible for the work package to comprise more than one chapter which is shown as "X" in the above table. The minimum total number of targeted enterprise subcontractors prescribed for each CIDB contractor grading designation is listed in the above table.

#### G5.3 Subcontract bill of quantities

The items of work identified for execution by Targeted Enterprise subcontractors is shown in the bill of quantities at the end of Part G: Small Contractor Development. The quantities of work shown for each item of work, is the anticipated work to be subcontracted, and the Contractor is not required to tender rates and prices for these items of work.

Payment of the works executed by Targeted Enterprise subcontractors will be made under the provisional sum allowed for in clause G10 Measurement and Payment and included in Schedule G: Small Contractor Development in Section C2.2 Bill of Quantities.

#### G6. TENDER PROCESS FOR TARGETED ENTERPRISE SUBCONTRACTOR PROCUREMENT

#### G6.1 Subcontract scope of work

The Contractor shall refer to Table G1/1 for the work packages identified to be subcontracted, the bill of quantities contained in these Particular Specifications, and to any other construction activities required to execute the Works in terms of the contract, to determine how he intends to unbundle or package specific subcontracts for execution by Targeted Enterprise subcontractors, and shall present his proposal to the Employer and Employer's Agent for approval.

#### G6.2 Compilation of subcontract tenders

The Contractor shall be responsible for compiling the tender documents that will enable him to engage the Targeted Enterprise subcontractors for the various work packages, according to the contractor grading designation and class of construction works or specialist works. The Contractor shall compile each subcontract tender document in such a manner that it shall facilitate the achievement of all objectives and principles pertaining to the development of the Targeted Enterprise subcontractors.

The tender documentation shall comply with the Employer's standards, including its standard conditions of tender. The following returnable schedules shall form part of the tender document for submission by tenderers:

- (i) certificate of registration of the tenderer in the required CIDB contractor grading designation, confirming the tenderer's registration Status as "Active" at the closing date of tender submission;
- (ii) tax compliance status report;
- (iii) B-BBEE verification certificate or sworn affidavit;
- (iv) proof of registration on the Central Supplier Database; and
- (v) compliance with the COID Act.

The tender documents shall also contain the proposed subcontract agreement in accordance with clause G8.1.

The draft tender documents shall be subject to approval by the Employer and Employer's Agent. The Contractor may then proceed with the preparation of tender documents for the work packages.

#### G6.3 Tender process

The Contractor shall be responsible for advertising the tenders for the work packages, and inviting tenders from Targeted Enterprise subcontractors in consultation with the Employer and Employer's Agent and the local PLC.

The Employer shall identify the number of work packages which are to be executed by Targeted Enterprise subcontractors from specific designated groups.

The Contractor shall conduct a compulsory briefing session for tenderers, attended by the Employer and

Employer's Agent, to explain the Works required and the tender process to the Targeted Enterprise subcontractors.

Tenders for the subcontracted works must close at a stipulated time and date. Tenders shall be placed in a suitable formal Tender Box, located at the Contractor's site office. The tender opening shall be conducted by the Project Management Team.

#### G6.4 Tender evaluation

The Project Management Team shall evaluate the tenders according to the Employer's standards. The Contractor shall prepare the tender adjudication report for each subcontract, and submit it to the Project Management Team for review prior to award of each subcontract.

#### G6.5 Allocation of subcontract work packages

The Project Management Team shall identify responsive tenders received for the various work packages from Targeted Enterprises in the following designated groups:

- (i) an EME or QSE which is at least 51% owned by black people;
- (ii) an EME or QSE which is at least 51% owned by black people who are youth;
- (iii) an EME or QSE which is at least 51% owned by black people who are women;
- (iv) an EME or QSE which is at least 51% owned by black people with disabilities; or
- (v) an EME or QSE which is at least 51% owned by black people who are military veterans.

The selection of subcontract work packages shall then be made, in consultation with the Employer in accordance with the provisions of clause 4.4.4 of the General Conditions of Contract 2015, in order to comply with the Employer's targeted procurement objectives.

#### G6.6 Award of subcontract work packages

Following the selection of the Targeted Enterprise subcontractors for the various work packages in consultation with the Employer in accordance with clause 4.4.4 of the General Conditions of Contract 2015, the Employer's Agent shall provide written confirmation of the Targeted Enterprise subcontractor selected for each work package, to the Contractor. The Contractor shall award each work package to the respective Targeted Enterprise subcontractor.

## G7. GENERAL RESPONSIBILITIES OF THE CONTRACTOR TOWARDS TARGETED ENTERPRISES

#### **G7.1** Obligations

The Contractor shall ensure that he complies with the following obligations:

- (i) institute a quality assurance system;
- (ii) provide adequate training, coaching, guidance, mentoring and assistance to Targeted Enterprises;
- (iii) provide financial support and other assistance to ensure that Targeted Enterprises are able to meet their obligations and commitments with respect to their subcontracts, including acquisition of labour, construction equipment and materials;
- (iv) ensure that the contract participation goals and objectives are achieved; and
- (v) make provision for Targeted Enterprises to be established within the Contractor's own camp facilities, and be responsible for the provision of site offices, common camp facilities, medical, security, safety, electricity, water, sewage services, waste disposal and all other camp services.

#### **G7.2** Subcontracts

In the subcontracts arranged by the Contractor involving Targeted Enterprises, the following shall apply:

- CONTACT NO.: ZNB00771-00000-00-PMR-INF-21-T
- (i) the appointment of Targeted Enterprises by the Contractor shall be made in accordance with the provisions of clause 4.4 of the General Conditions of Contract 2015; and
- (ii) no provision or requirements set out in the specifications shall be deemed to relieve the Contractor of any liability or obligation under the contract, and in accordance with the provisions of clause 4.4.3 of the General Conditions of Contract 2015, the Contractor shall be liable for the acts, defaults and negligence of any Targeted Enterprise, his agents or employees as fully as if they were the acts, defaults or negligence of the Contractor.

#### G8. MANAGEMENT OF TARGETED ENTERPRISE SUBCONTRACTS

The Contractor shall conclude the subcontract agreements, and provide the necessary management support to the Targeted Enterprises. Failure by a Targeted Enterprise to comply with the terms and conditions of the subcontract agreement shall result in penalties being applied or the subcontract terminated.

#### **G8.1** Compilation of subcontract conclusion agreement

- (a) The Contractor in liaison with the Employer and Employer's Agent shall be responsible for the conclusion of each subcontract agreement. The agreement shall be in accordance with the provisions of clause 4.4 of the General Conditions of Contract 2015 and shall be consistent with the terms and conditions in this contract. The agreement shall be subject to approval by the Employer and Employer's Agent.
- (b) The terms and conditions of the subcontract agreement shall also specify the following:
  - (i) an entitlement of the Targeted Enterprise to receive such training as is contemplated in this contract;
  - (ii) an obligation on the Targeted Enterprise to participate and co-operate in such training as is provided for in this contract;
  - (iii) the allowable sources from which workers may be drawn in terms of the contract;
  - (iv) the terms and conditions relating to the recruitment, employment and remuneration of workers engaged on the contract;
  - (v) the training to be provided to the workers; and
  - (vi) the terms and conditions relating to payment of the Targeted Enterprise. Such terms and conditions shall also include a clause stipulating that payment to a Targeted Enterprise for work done shall be made within 30 days of submission of the invoice by the Targeted Enterprise to the Contractor. In the event of failure by the Contractor to make the payment by the due date, he shall pay to the Targeted Enterprise interest, at the prime overdraft rate charged by the Targeted Enterprise's bank, compounded monthly, on all overdue payments from the date on which the same should have been paid to the date when payment is effected, without prejudice to the Targeted Enterprise's other rights under the contract or by law.

#### **G8.2** Quality of work and performance of the Targeted Enterprise

- (a) The Contractor shall closely monitor and supervise all Targeted Enterprises and shall train, mentor, guide and assist each Targeted Enterprise in all aspects of management, execution and completion of his subcontract. This shall typically include assistance with planning of the works, sourcing and ordering of materials, labour relations, monthly measurements and invoicing procedures. The extent and level of such training, mentoring, guidance and assistance to be provided by the Contractor shall be commensurate with the basic level of subcontract applicable and shall be directed at enabling the Targeted Enterprise to achieve the successful execution and completion of their subcontract.
- (b) The Contractor shall closely monitor and supervise all Targeted Enterprises and shall give reasonable warning to the Targeted Enterprise when any contravention of the terms and conditions of the subcontract has occurred or appears likely to occur. The Contractor shall, whenever feasible, give the Targeted Enterprise reasonable opportunity to make good any such contravention, or to avoid such contravention, and shall render all reasonable assistance to the Targeted Enterprise in this regard.

#### **G8.3** Dispute avoidance and resolution procedures

(a) When taking any disciplinary action or imposing a penalty as provided for in the subcontract, the

Contractor shall explain fully to the Targeted Enterprise that such actions are provided for in the subcontract. If such action is contemplated this shall be discussed with the Employer's Agent before any action is taken.

- (b) If the Targeted Enterprise, in the opinion of the Employer's Agent, fails to comply with any of the criteria listed below, the Employer's Agent shall issue a written warning to the Contractor, stating all the areas of non-compliance. A copy of the letter of warning shall be forwarded to the Employer. The criteria are as follows:
  - (i) acceptable standard of work as set out in the specifications:
  - (ii) progress in accordance with the time constraints in the Targeted Enterprise's contract;
  - (iii) punctual and full payment of the workforce and suppliers;
  - (iv) site safety; and
  - (v) accommodation of traffic.
- (c) The Targeted Enterprise shall have 21 days from the date of receipt of the letter of warning by the Contractor to address and rectify the issues raised by the Employer's Agent, with the exception of the above subclauses (b)(iv) and (v) for which the reaction time shall be in accordance with the relevant specifications for those aspects of the Works but shall not be longer than 24 hours. Failure by the Targeted Enterprise to comply with the deadline set, will be sufficient grounds for the Contractor to apply a penalty, or terminate the subcontract provided that the Employer's Agent is satisfied that the Contractor has made every effort to correct the performance of the Targeted Enterprise.
- (d) The Targeted Enterprise shall have the right to dispute any ruling given or deemed to have been given by the Contractor, Employer's Agent or Employer. Provided that, unless the Targeted Enterprise shall, within 21 days after his receipt of a ruling or after a ruling shall have been deemed to be have been given, give written notice (hereinafter referred to as a Dispute Notice) to the Contractor, referring to this clause, disputing the validity or correctness of the whole or a specified part of the ruling, he shall have no further right to dispute that ruling or the part thereof not disputed in the said notice.

#### G9. TRAINING, COACHING, GUIDANCE AND MENTORING

#### **G9.1** Obligations

This section provides details of the Contractor's obligations of implementing the National Skills Development Strategy. This strategy sets priorities for the skills development of workers. The Sector Education and Training Authorities (SETA) and provincial offices of the Department of Labour will play key roles in transforming the vision of the strategy into reality.

Supervision is included as part of the contractor's general obligations for the administration and management of the Targeted Enterprises. However, training, coaching, guidance and mentoring are not included as part of the Contractor's general obligations unless specific provision to that effect has been made in the project specifications.

The Contractor shall, from the commencement of the contract, provide a structured development programme designed to improve the entrepreneurial and basic business management skills of identified Targeted Enterprises and hired labour, as well as to improve their specific task skills (construction skills) commensurate with the applicable levels of subcontract that will enable the Targeted Enterprises to achieve the successful execution and completion of their subcontracts. The ultimate objective of training, coaching, guidance and mentoring is to develop the Targeted Enterprises as far as their potential allows.

#### **G9.2** Definitions

#### **G9.2.1 Training**

Training refers to the process of teaching a learner – usually in a classroom or simulated work environment situation. Training usually takes place with one teacher/trainer and several learners. Principles and theory are taught. Demonstrations are given. Assignments are then set to ensure that the learner is able to apply what has been taught. Training is done by a specialist in the subject, who is also qualified to train.

Example: Use of a dumpy level

Training would involve the theory of how a dumpy level works and how to calculate levels. A demonstration

of how to set up and read a level could be given.

#### **G9.2.2 Coaching**

Coaching refers to hands-on training and is mostly on a one-on-one basis of tangible and measurable skills. It is typically on-site training, or learning-on-the-job. Coaching is training by the process of "watch-do-correct-practice". The coach does the task while the learner watches and asks questions. Then the learner does the same task while the coach watches. The learner is corrected until the coach feels that he has the gained competence in the function. The learner is then left to practise the task or skill, which the coach oversees. Coaching is imparting a skill – usually manual or physical. A coach is usually a person doing the same type of work on a higher or more competent level, or a person who has a mastery of the skill/task. While training gives the theory or shows/explains the principles, coaching helps the learner become competent and master a skill. A coach is often in the direct reporting line, i.e. someone in authority. Coaching could be part of the management function and would make the job run more smoothly.

Example: Use of a dumpy level

Coaching would involve taking the learner onto site, setting up a dumpy level, reading levels. Then the coach would get the learner to do the job, while the coach checked the setting up and reading. Once the learner understands and can do the tasks, the coach checks periodically to ensure the learner is still doing the job properly.

The desired outcome of coaching is for the learner to "fit-the-mould", and to do things the same way and to the same standard as the coach.

#### G9.2.3 Guidance

Guidance is anticipating where one might go wrong, or where one is doing a task in a complicated, inefficient or ineffective way, and giving advice as to how to achieve a better result. Guidance is mostly given by a person in the direct reporting line, but can be given by anyone. Guidance is not imparting skills, but suggesting ways to improve performance.

Example: Use of a dumpy level

A person who knows how to use a dumpy level would be given guidance as to where he would next set up the level to limit the number of set-ups. Guidance could be an extension of coaching.

#### **G9.2.4 Mentoring**

Mentoring is developing a person on a long-term career path. It is mostly about imparting skills that are often intangible and non-measurable. A mentor is seldom anyone in the direct reporting line – although he could be a person several levels higher in that reporting line. Mentoring is more about developing a relationship and taking a personal interest in an individual. A mentor looks out for that individual and gives him advice that cannot be found in a book or in the normal course of business. The sort of issues a mentor discusses with the protégé include company politics, how to pick up work before others get wind of it, how to position one's company to get a better competitive advantage, how to tender such that the tender is lowest but the profit is as good as or better than the next person, how to determine and assess risk. Mentoring helps the protégé think strategically, sharpen entrepreneurial skills and grow – both personally and in terms of the company. A mentor helps the protégé to develop insight and shrewdness. It is more about business skills to survive long-term than the technical, tactical or day-to-day activities of doing business.

The desired outcome of mentoring is for the protégé to develop his own style, i.e., to shape his own "mould".

#### **G9.2.5 Supervision**

Supervision is instruction regarding the work to be performed, and ensuring it is carried out to specification and to the satisfaction of the supervisor. It is not instruction on how the work is to be performed, but rather on what work has to be performed, and usually has specific time frames.

#### **G9.3** Assessment of Targeted Enterprise potential

It is the responsibility of the Contractor to determine the level of development required by each Targeted Enterprise. This will require that the Contractor determine the level at which the Targeted Enterprise can

CONTACT NO.: ZNB00771-00000-00-PMR-INF-21-T

operate competently and determine the skills already acquired by the Targeted Enterprise in terms of training and on-the-job experience. In some circumstances Adult Basic Education Training (ABET) will need to be started before any formal training can commence. The assessment of each appointed Targeted Enterprise is to be produced by the Contractor for discussion with the Employer and Employer's Agent at a meeting following the appointment of the Targeted Enterprise.

#### **G9.4** Development Plan

Within a month of the meeting with the Employer and Employer's Agent on the Targeted Enterprise assessments, the Contractor is to present a development plan, specific to each Targeted Enterprise. The development plan is to be reviewed by the Employer and Employer's Agent for appropriateness before being implemented.

The development plan is to include the following:

- (i) specify the development needs of each Targeted Enterprise contracting entity the systems the entity lacks;
- (ii) specify the development needs of the individuals comprising the entity the skills the individuals within the entity lack;
- (iii) the level to which that activity will be developed within the period of the contract;
- (iv) whether training, coaching, guidance and/or mentoring is to be given in each activity; and
- (v) the person/s responsible for each activity.

#### **G9.5** Identification and general training of potential Targeted Enterprises

- (a) The progression of training, coaching and mentorship may need to start with the identification and general training of identified Targeted Enterprises and hired labour, and should end with their acquisition of sufficient management skills that will equip them to compete confidently for subcontract work beyond the duration of this contract. In addition, generic skills shall be taught where the need for these has been identified as being necessary amongst Targeted Enterprise workforces and hired labour.
- (b) Before commencing with any structured training, the Contractor shall submit his intended programme to the Employer and Employer's Agent for approval of its subject content and proposed trainers, and the Contractor shall, if so, instructed by the Employer and Employer's Agent, alter or amend the programme and/or course content.

The Contractor shall be responsible for the provision of everything necessary for the delivery of the various training workshops and modules including:

- (i) provision of a suitable fully serviced training venue facility;
- (ii) procurement of suitable accredited trainers;
- (iii) provision, in conjunction with the accredited trainers, of all the necessary training materials, including stationery and study materials; and
- (iv) transportation of the learners to and from the training venue facility (it is therefore in the Contractor's interest that the training venue facility be provided on the site in order to reduce these transportation costs).

Payment to the Contractor for carrying out the training function shall be effected through the pay items provided in this Part G, using the training facility provided under Part F: Expanded Public Works Programme.

#### **G9.6** Activities

The tasks for each of the activities making up the development plan include material, equipment and general tasks, for training on technical, contractual, financial, human resources, legislative and general administrative functions.

The Construction Manager, site clerk and HR Manager will train/coach or mentor the above listed functions as part of on-site training.

#### **G9.7** Portfolio of Evidence

The Contractor is to develop and/or maintain a portfolio of evidence for each Targeted Enterprise. The Portfolio

of Evidence is a collection of proof of the training, coaching, guidance and mentoring inputs provided to the Targeted Enterprise and is similar to a log book used by technical students completing experiential training. It is a living document which records the development progress of the Targeted Enterprise and will need to be updated continually throughout the duration of the contract. It remains the property of the Targeted Enterprise who must take it to their next contract.

The Portfolio of Evidence should include the following documentation:

- (i) the development path designed for each Targeted Enterprise;
- (ii) the training courses completed by the Targeted Enterprise;
- (iii) the hours of guidance, coaching and mentoring received for each activity listed in the development plan;
- (iv) a list of outcomes achieved at each level for each activity:
- (v) six-monthly progress reports on the development provided (inputs) versus the actual progress made (output) by the Targeted Enterprise; and
- (vi) a list of competencies.

#### **G9.8** Training Requirements

Only qualified trainers employed by training agencies that are accredited by the relevant Sector Education and Training Authorities (SETA), or other institutions recognised by the Department of Labour shall deliver any training. "Accredited training" refers to both the trainers as well as to the training material. Certificates affirming the successful participation in the various courses shall be presented to each attendant.

The Contractor shall facilitate in the delivery of training by instructing and motivating the hired labour and relevant Targeted Enterprises regarding attendance and participation. All training shall take place within normal working hours, or as agreed with the trainees.

#### **G9.9** Development training

The Contractor will arrange training to support the development of the Targeted Enterprise. This training must be provided by training providers accredited with the relevant SETA pertaining to the course material being presented. The training will take place at hours agreed with the trainees, possibly on a part time basis after hours.

The following training courses are recommended to support the development programme detailed in the contract document:

- (i) NQF Level 2: Construction Contractor Business owner and administration officer;
- (ii) Tender training NQF Level 3 Business owner / Technical expert:
- (iii) Computer literacy training Business owner and admin officer Microsoft Windows, email, Microsoft Word and Microsoft Excel:
- (iv) General bookkeeping relevant to construction Business owner and admin officer;
- (v) Tendering NQF Level 4 and 5 Business owner / Technical expert; and
- (vi) Construction supervision (Roadworks) NQF Level 4 Business owner / Technical expert.

#### **G9.10 Safety Training**

The Targeted Enterprise's safety representative is to be fully trained in all aspects of safety and his duties in this regard. The owner of the Targeted Enterprise is to be trained on his responsibilities regarding safety regulations.

## **G9.11 Construction skills training**

The focus of training provided on the contract should be to support the development of the Targeted Enterprise subcontractor. Construction skills training will only be approved by the Employer's Agent when appropriate.

The Targeted Enterprise, their workforce and hired labour that are selected will be entitled to receive structured

training that will improve on-task skills necessary for the execution and successful completion of the works. The Contractor, in conjunction with the Employer's Agent, shall monitor the progress of the hired labour and each Targeted Enterprise closely and shall identify those who, in their collective opinion, will benefit from structured construction skills training as may be provided for in the contract, and where required by the Employer's Agent shall make recommendations in this regard. The final list of candidates shall be decided between the Contractor and the Employer's Agent, and those selected shall receive formal construction skills training in a programmed and progressive manner throughout the duration of the contract.

The training programme shall offer complete courses that could comprise some or all of the following modules:

- (i) Use and maintenance of hand tools;
- (ii) Operation of equipment;
- (iii) Manufacture and installation of minor precast concrete units;
- (iv) Erect, dismantle and maintain formwork;
- (v) Basic concrete skills;
- (vi) Excavation, backfill and compaction;
- (vii) Bricklaying; and
- (viii) Erosion protection using stone pitching, gabions or renos.

#### **G9.12** Training venue facility

The training venue facility to be provided by the Contractor is described in clause F5.6 of Part F. This facility shall be used to deliver all training, irrespective of whether it is delivered in terms of Part F or Part G of the Particular Specifications.

#### G10. MEASUREMENT AND PAYMENT

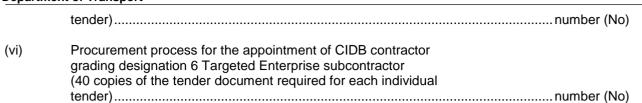
Note:

In order to avoid duplication of training facilities, the training facility required for the training described in this Part G: Small Contractor Development, shall be measured and paid for in terms of the pay items provided for training in Part F: Expanded Public Works Programme.

Unit Item G10.01 **Procurement of Targeted Enterprises:** Management and execution of Targeted Enterprise procurement (a) process: (i) Procurement process for the appointment of CIDB contractor grading designation 1 Targeted Enterprise subcontractor (100 copies of the tender document required for each individual tender).....number (No) (ii) Procurement process for the appointment of CIDB contractor grading designation 2 Targeted Enterprise subcontractor (80 copies of the tender document required for each individual tender).....number (No) (iii) Procurement process for the appointment of CIDB contractor grading designation 3 Targeted Enterprise subcontractor (60 copies of the tender document required for each individual tender)......number (No) Procurement process for the appointment of CIDB contractor (iv) grading designation 4 Targeted Enterprise subcontractor (50 copies of the tender document required for each individual tender).....number (No) (v) Procurement process for the appointment of CIDB contractor

grading designation 5 Targeted Enterprise subcontractor (40 copies of the tender document required for each individual

(e)



The unit of measurement shall be the number of individual subcontract agreements concluded with Targeted Enterprise subcontractors according to the CIDB contractor grading designation for all classes of construction works, in accordance with the procurement process described in this Part G.

Each tendered rate shall be in full compensation for the management and execution of the Targeted Enterprise procurement process in the relevant CIDB contractor grading designation scheduled, including for the compilation, printing, binding and issue of the tender documents for each tender, for the advertising of each tender, for the provision of the venue and the conducting of each compulsory briefing session for tenderers, for the conducting of each tender opening process, for the adjudication of the tenders received for each tender, for the preparation of each tender adjudication report and the review thereof in conjunction with the Employer and Employer's Agent, for the award of each tender and for the conclusion of the subcontract agreement with each successful Targeted Enterprise subcontractor tenderer.

Item Unit

#### **G10.02** Construction Works for Targeted Enterprise subcontractors:

Expenditure under subitems G10.02(a) and (c) shall be in accordance with clause 6.6 of the General Conditions of Contract 2015.

Management of the Targeted Enterprise subcontractors ...... month

The provisional sum for subitem G10.02(a) is provided to cover the total cost of the construction Works carried out by the Targeted Enterprises subcontractors based on proof of payment made by the Contractor, as certified by the Employer's Agent, in separate payments for each Targeted Enterprise subcontractor in accordance with Part G of the Particular Specifications.

The tendered percentage for subitem G10.02(b) is the percentage of the amount actually spent under subitem G10.02(a), and shall include full compensation for the handling costs of the Contractor and the profit in connection with the construction Works carried out by the Targeted Enterprise subcontractors.

The provisional sum for subitem G10.02(c) is provided to cover the total cost of the materials and small construction equipment supplied by the Contractor to assist the Targeted Enterprise subcontractors based on proof of payment made by the Contractor, as certified by the Employer's Agent, in separate payments for each Targeted Enterprise subcontractor in accordance with Part G of the Particular Specifications.

The tendered percentage for subitem G10.02(d) is the percentage of the amount actually spent under subitem G10.02(c), and shall include full compensation for the handling costs of the Contractor and the profit in connection with the supply of materials and small construction equipment by the Contractor to assist the Targeted Enterprise subcontractors.

The unit of measure for subitem G10.02(e) is month or part thereof that the service is required. Payment shall only be made for the period one or more appointed Targeted Enterprise subcontractors are on site in the execution of the works. The tendered rate shall include full compensation for the conclusion of all the subcontract agreements and the management of all Targeted Enterprise subcontractors, including for the

provision of the necessary management support, coaching, guidance and mentoring to the Targeted Enterprise subcontractors.

Unit Item **Training of Targeted Enterprise subcontractors:** G10.03 Generic skills: (a) (i) Training costs provisional sum (Prov sum) Handling costs and profit in respect of subitem G10.03(a)(i) .....percentage (%) (ii) (b) Entrepreneurial skills: (i) Handling costs and profit in respect of subitem G10.03(b)(i) .....percentage (%) (ii) (c) Construction skills: (i) (ii) Handling costs and profit in respect of subitem G10.03(c)(i).....percentage (%) (d) Transportation and accommodation costs of selected learners only, while receiving off-site training: (i) Transportation and accommodation costs...... provisional sum (Prov sum) Handling costs and profit in respect of subitem G10.03(d)(i) .....percentage (%) (ii)

Expenditure under subitems G10.03(a)(i), (b)(i), (c)(i) and (d)(i) shall be in accordance with clause 6.6 of the General Conditions of Contract 2015.

The provisional sum for each of subitems G10.03(a)(i), (b)(i) and (c)(i) is provided to cover the total costs of the required training in generic skills, entrepreneurial skills and construction skills respectively, including for the procurement of the services of the accredited trainers and their delivery of the training courses to the learners employed by Targeted Enterprise subcontractors, the provision of all training materials including all stationery and study materials, and the wages of the learners for the duration of the courses. The payment of wages to learners in terms of subitems G10.03(a)(i), (b)(i) and (c)(i) will only be made to those learners who attend and successfully complete each course of the approved training programme. Payment shall not be made to learners who, once selected, do not attend or only partially complete structured training courses.

The Contractor's own personnel shall be permitted to attend the training courses provided for the learners employed by the Targeted Enterprise subcontractors only to the extent that the venue and its facilities can efficiently and comfortably accommodate the additional number of learners. All additional costs relating to such attendance by the Contractor's own personnel shall be carried by the Contractor and shall not be considered for payment in terms of item G10.03, including for any additional costs related to the accredited trainers and their delivery of the training courses, the provision of additional training materials, and the wages of the learners from the Contractor's own personnel for the duration of the courses.

The tendered percentage for each of subitems G10.03(a)(ii), (b)(ii) and (c)(ii) is the percentage of the amount actually spent under each of subitems G10.03(a)(i), (b)(i) and (c)(i) respectively, and shall include full compensation for the handling costs of the Contractor, and the profit in connection with the provision of the training in generic skills, entrepreneurial skills and construction skills respectively, including for the costs of record keeping and reporting with respect to the training received by each learner, and the costs of the compilation of the portfolio of evidence with respect to each Targeted Enterprise subcontractor.

The provisional sum for subitem G10.03(d)(i) is provided to cover all costs related to the transportation and accommodation costs of selected learners only, while receiving off-site training, where such learners have been specifically selected in conjunction with the Employer's Agent to receive such off-site training and where such training cannot be delivered using the training venue facility provided by the Contractor.

The tendered percentage for subitem G10.03(d)(ii) is the percentage of the amount actually spent under subitem G10.03(d)(i), and shall include full compensation for the handling costs of the Contractor, and the profit in connection with the transportation and accommodation costs of selected learners only, while receiving off-site training.

# **ANNEXURE A**

# SCHEDULE OF QUANTITIES PART G: SMALL CONTRACTOR DEVELOPMENT

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

				CHAPTER C1
ITEM	DESCRIPTION	UNIT	LIC	QTY
C1.3	CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS			
C1.3.1	The Contractor's general obligations			
C1.3.1.1	Fixed obligations	Lump Sum		1.0
C1.3.1.3	Time-related obligations	Month		24.0
End of Secti	on	•		

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

			1	CHAPTER C
ITEM	DESCRIPTION	UNIT	LIC	QTY
C1.5	ACCOMMODATION OF TRAFFIC			
C1.5.1	Accommodation of pedestrian and non-motorised traffic			
C1.5.1.1	Accommodation of pedestrian and non-motorised traffic	month		24.0
C1.5.2	Accommodation of vehicular traffic	month		24.0
C1.5.3	Liaison with traffic authorities	month		24.0
C1.5.4	Construction of temporary deviations			
	The applicable payment items required for the construction of temporary deviations shall be taken from the relevant chapters and sections in Chapter 1, 3, 5, 9 and 10 and inserted into the Pricing Schedule here. Each payment item for the construction of temporary deviations shall be preceded by the main payment item number C1.5.4 / followed by the payment number for the applicable payment item	km		8.0
C1.5.5	Maintenance of temporary deviations			
C1.5.5.1	Grass cutting	ha		8.0
C1.5.5.4	Collection of rubbish / litter	km		8.0
C1.5.5.9	Grading of temporary deviations and existing roads used as detours	km		8.0
C1.5.5.10	Watering of temporary deviations and existing roads used as detours	kl		5000.0
C1.5.5.11	Other road maintenance work ordered by the Engineer	Prov Sum		1.0
C1.5.5.12	Handling cost, profit and all other charges in respect of item C1.5.5.12	%		R 75 000.00
C1.5.7	Temporary traffic control facilities			
C1.5.7.1	Delineators including mounting bases and ballast:			
	Single sided, reversible left or right (size indicated)	No		400.0
b)	Double sided, reversible left or right (size indicated)	No		400.0
C1.5.7.2	Traffic cones, minimum height 750 mm	No		200.0
C1.5.7.3	Flagmen	man- shift		5000.0
End of Secti	ion			

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

				CHAPTER C1.
ITEM	DESCRIPTION	UNIT	LIC	QTY
C1.5	ACCOMMODATION OF TRAFFIC			
C1.5.8	Traffic safety officer	Man- month		24
C1.5.9	Traffic safety vehicle	month		24
C1.5.11	Provision of safety equipment for visitors			
C1.5.11.1	Provision of reflective safety vests for visitors	No		48
C1.5.11.2	Provision of hard hats for visitors	No		48
C1.5.12	Additional traffic accommodation facilities ordered by the Engineer:			
C1.5.12.1	Provision of additional traffic accommodation facilities	Prov Sum		1
C1.5.12.2	Handling cost, profit and all other charges in respect of item C1.5.12.1	%		R 100 000.00
End of Secti	ion		<u> </u>	

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

				CHAPTER C3.
ITEM	DESCRIPTION	UNIT	LIC	QTY
C3.2	CULVERTS			
C3.2.1	Excavation for culvert structures:			
C3.2.1.1	Excavating in all material situated within the following depth ranges below the surface level:			
(a)	0m to 1.5m	m³		3 000
(b)	Exceeding 1.5m and up to 3.0m	m³		5 000
(c)	Etc, in increments of 1.5m	m³		100
C3.2.1.4	Extra over sub-item C3.2.1.1 for excavation in hard or boulder material, irrespective of depth	m³		100
C3.2.2	Backfilling:			
C3.2.2.1	Using the excavated material	m³		3 000
C3.2.2.2	Using imported selected material:			
(b)	From sources on site (State type)	m³		1500
C3.2.3	Concrete pipe culverts:			
C3.2.3.3	On Class C bedding (type and diameter indicated)			
	(i) 450 mm dia. Spigot and Socket Class 100D	m		110
	(ii) 600 mm dia. Spigot and Socket Class 100D	m		2 100
	(iii) 900 mm dia. Spigot and Socket Class 100D	m		1 050
	(iv) 1200 mm dia. Spigot and Socket Class 100D	m		300
C3.2.3.5	Provision of skew ends of pipe culvert (Refer to Drainage drawing)	No		50
C3.2.7 C3.2.7.2	Cast in situ concrete and formwork:  In complete in situ floor slabs for rectangular culverts, manholes and catchpits including formwork, joints and Class U2 surface finish (class of concrete indicated) (installed at a			
	standard depth of 1,0 m)	m <sup>3</sup>		100

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

Reinforcement:  C3.2.10.1 Mild steel bars  t  1  C3.2.10.2 High-tensile steel bars  t  C3.2.10.3 Welded steel fabric  C3.2.10.3 Demolition of concrete members or elements:  C3.2.12 Full member or element (location and description)  C3.2.13 Removing and re-laying existing culverts:			1	•	CHAPTER C3
33.2.10 Reinforcement:  33.2.10.1 Mild steel bars  1 t  33.2.10.2 High-tensile steel bars  1 t  33.2.10.3 Welded steel fabric  33.2.11 Demolition of concrete members or elements:  33.2.12 If ull member or element (location and description)  33.2.13 Removing and re-laying existing culverts for re-use (up to 900mm dia.)  1 m  100	ITEM	DESCRIPTION	UNIT	LIC	QTY
23.2.10.1 Mild steel bars  1 1 23.2.10.2 High-tensile steel bars  32.10.3 Welded steel fabric  32.2.12 Demolition of concrete members or elements:  32.2.12.1 Full member or element (location and description)  32.2.13.1 Removing and re-laying existing culverts:  32.2.13.1 Removing and stacking existing culverts for re-use (up to 900mm dia.)  32.2.13.1 mm 100	C3.2	CULVERTS			
33.2.10.2 High-tensile steel bars  3.2.10.3 Welded steel fabric  3.2.12 Demolition of concrete members or elements:  3.2.12.1 Full member or element (location and description)  3.3.2.13 Removing and re-laying existing culverts:  3.3.2.13.1 Removing and stacking existing culverts for re-use (up to 900mm dia.)  100	C3.2.10	Reinforcement:			
Welded steel fabric   Land Comments   Land Com	C3.2.10.1	Mild steel bars	t		1
Demolition of concrete members or elements:  C3.2.12.1 Full member or element (location and description)  C3.2.13 Removing and re-laying existing culverts:  Removing and stacking existing culverts for re-use (up to 900mm dia.)  m³  40  100	C3.2.10.2	High-tensile steel bars	t		1
elements:  G3.2.12.1 Full member or element (location and description)  G3.2.13 Removing and re-laying existing culverts:  G3.2.13.1 Removing and stacking existing culverts for re-use (up to 900mm dia.)  m³  40  100	C3.2.10.3	Welded steel fabric	kg		200
description)  Removing and re-laying existing culverts:  Removing and stacking existing culverts for re-use (up to 900mm dia.)  m 100	C3.2.12				
Removing and stacking existing culverts for re-use (up to 900mm dia.)  m  100	C3.2.12.1	Full member or element (location and description)	m³		40
for re-use (up to 900mm dia.) m 100	C3.2.13	Removing and re-laying existing culverts:			
End of Section	C3.2.13.1	Removing and stacking existing culverts for re-use (up to 900mm dia.)	m		100
End of Section					
End of Section					
End of Section					
End of Section					
End of Section					
End of Section					
End of Section					
End of Section					
End of Section					
End of Section					
End of Section					
End of Section					
End of Section					
End of Section					
End of Section					
End of Section					
End of Section					
	End of Section	on	<u> </u>	1	1

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

				CHAPTER C3
ITEM	DESCRIPTION	UNIT	LIC	QTY
C3.3	CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, AS WELL AS CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS			
C3.3.2	Concrete kerbing-channeling combination:	m		9500
C3.3.2.1	Prefabricated kerbing-channeling (Classs 15/20 concrete)			
(a)	500mm wide combined precast kerb to SABS 927 (Figure 6) and cast in situ channel (Refer to SD 0701/A)			
C3.3.8	Linings for open drains:			
C3.3.8.1	Cast in situ concrete lining (Class 20/19 for open drains)	m³		1500
C3.3.8.2	ClassU2 surface finish to cast in situ concrete (Open drain)	m²		15000
C3.3.8.3	Stone pitched lining (200 mm thickness)			
(a)	Grouted stone pitching (type of open drain indicated)	m²		250
C3.3.9	Formwork to cast in situ concrete lining for open drains (Class F2 surface finish):			
C3.3.9.1	To sides with formwork on the internal face only	m²		1800
C3.3.9.2	To sides with formwork on both internal and external faces (each face measured)	m²		300
C3.3.9.3	To ends of slabs	m²		300
C3.3.10	Sealed joints in concrete and stone pitched linings of open drains (Polysulphide sealant)	m		600
C3.3.10	Concrete screed or backfill below chutes (thickness and class of concrete indicated)	m³		30
C3.3.12	Reinforcement:			
C3.3.12.1	Mild steel bars	t		1
C3.3.12.2	High-tensile steel bars	t		1
C3.3.12.3	Welded steel fabric	kg		28 564
End of Section	l on			

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

				CHAPTER C
ITEM	DESCRIPTION	UNIT	LIC	QTY
C11.1	PITCHING, STONEWORK, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION			
C11.1.2.3	Grouted stone pitching on a concrete bed	m²		
C11.1.7.1	Provision of materials	Prime Cost		250
C11.1.7.2	Contractor's charges and profit added to the prime cost sum	%		50000
End of Section	l on			

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

				CHAPTER C1
ITEM	DESCRIPTION	UNIT	LIC	QTY
C11.2	NON-STRUCTURAL GABIONS			
C11.2.1	Foundation trench excavation:			
C11.2.1.1	Excavating all material situated within the following depth ranges below the surface level	m³		65
C11.2.2	Surface preparation for bedding the gabion boxes and mattresses	m²		150
C11.2.3	Gabion boxes and mattresses:			
C11.2.3.1	Galvanized gabion boxes (Galvanized gabion boxes, hexagonally woven mesh, 80mm x 100mm, 2.7mm dia. with additional PVC coating)			
	(i) 1.0 m x 1.0 m x 1.0 m	m³		20
	(ii) 1.5 m x 1.0 m x 1.0 m	m³		20
	(iii) 2.0 m x 1.0 m x 1.0 m	m³		10
	(iv) 3.0 m x 1.0 m x 1.0 m	m³		10
C11.2.3.3	Galvanized gabion mattresses (Galvanized gabion mattresses, hexagonally woven mesh, 80mm x 100mm, 2.7mm dia. with 1.0m diaphragm spacing)			
	(i) 2.0 m x 1.0 m x 0.3 m	m³		10
	(ii) 3.0 m x 1.0 m x 0.3 m	m³		10
	(iii) 6.0 m x 2.0 m x 0.3 m	m³		100
C11.2.4	Geotextile (type and grade indicated)	m²		300
End of Section			<u> </u>	
Life of Occil	OH			

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

TITEM DESCRIPTION UNIT LIC QTY  C11.3 GUIDE BLOCKS AND KILOMETRE MARKERS  C11.3.1 Guide blocks C11.3.2 Kilometre markers C11.3.3 Kilometre markers mounted on concrete reinforced pipes (diameter to be specified)  No  14  No  15  No  16  No  17  No  17  No  17  No  18  No  19  No  19  No  10  No  10  No  11  No  11  No  11  No  11  No  12  No  13  No  14  No  15  No  16  No  17  No  17  No  17  No  18  No  19  No  19  No  10  No  10  No  10  No  10  No  10  No  11  No					CHAPTER C11.
MARKERS C11.3.1 Guide blocks No 14 C11.3.2 Kilometre markers No 14 C11.3.3 Kilometre markers mounted on concrete reinforced pipes (diameter to be specified) No 14	ITEM	DESCRIPTION	UNIT	LIC	QTY
C11.3.2 Kilometre markers No 14 C11.3.3 Kilometre markers mounted on concrete reinforced pipes (diameter to be specified) No 14	C11.3	GUIDE BLOCKS AND KILOMETRE MARKERS			
C11.3.3 Kilometre markers mounted on concrete reinforced pipes (diameter to be specified)  No  14	C11.3.1	Guide blocks	No		14
reinforced pipes (diameter to be specified)  No  14	C11.3.2	Kilometre markers	No		14
	C11.3.3	reinforced pipes (diameter to be	No		14
End of Section	End of Secti	ion			

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

TEM DESCRIPTION UNIT LIC QTY  C11.4 ROAD RESTRAINT SYSTEMS  C11.4.1 Erecting of guardrails at 3,81 m spacing  C11.4.1.1 Complete galvanized system compliant to SANS 1350:  (a) On timber posts (Drawing reference) m  (d) Extra over C11.4.1.1(a) and C11.4.1.1(b) for excavating holes of posts using labour enhanced methods (soft and intermediate)  C11.4.1.2 Terminal sections for 3,81 guardrails comprising of:  (a) End wings to SANS 1350 No  C11.4.6 Reflective plates					CHAPTER C1	
C11.4.1 Erecting of guardrails at 3,81 m spacing C11.4.1.1 Complete galvanized system compliant to SANS 1350:  (a) On timber posts (Drawing reference) m 1300  Extra over C11.4.1.1(a) and C11.4.1.1(b) for excavating holes of posts using labour enhanced methods (soft and intermediate)  C11.4.1.2 Terminal sections for 3,81 guardrails comprising of:  (a) End wings to SANS 1350 No 36  C11.4.6.1 Steel plates  Steel plates  No 400	ITEM	DESCRIPTION	UNIT	LIC		
C11.4.1.1 Complete galvanized system compliant to SANS 1350:  (a) On timber posts (Drawing reference) m 1300  Extra over C11.4.1.1(a) and C11.4.1.1(b) for excavating holes of posts using labour enhanced methods (soft and intermediate) 200  C11.4.1.2 Terminal sections for 3,81 guardrails comprising of:  (a) End wings to SANS 1350 No 36  C11.4.6 Reflective plates  C11.4.6.1 Steel plates No 400	C11.4	ROAD RESTRAINT SYSTEMS				-
to SANS 1350:  (a) On timber posts (Drawing reference) m 1300  Extra over C11.4.1.1(a) and C11.4.1.1(b) for excavating holes of posts using labour enhanced methods (soft and intermediate) 200  C11.4.1.2 Terminal sections for 3,81 guardrails comprising of:  (a) End wings to SANS 1350 No 36  C11.4.6 Reflective plates  C11.4.6.1 Steel plates No 400	C11.4.1	Erecting of guardrails at 3,81 m spacing				
(d) Extra over C11.4.1.1(a) and C11.4.1.1(b) for excavating holes of posts using labour enhanced methods (soft and intermediate) 200 C11.4.1.2 Terminal sections for 3,81 guardrails comprising of: (a) End wings to SANS 1350 No 36 C11.4.6 Reflective plates C11.4.6.1 Steel plates No 400	C11.4.1.1	Complete galvanized system compliant to SANS 1350:				
for excavating holes of posts using labour enhanced methods (soft and intermediate)  C11.4.1.2 Terminal sections for 3,81 guardrails comprising of:  (a) End wings to SANS 1350 No 36  C11.4.6 Reflective plates  C11.4.6.1 Steel plates  No 400	(a)	On timber posts (Drawing reference)	m		1 300	)
comprising of:  (a) End wings to SANS 1350 No 36  C11.4.6 Reflective plates  C11.4.6.1 Steel plates No 400	(d)	for excavating holes of posts using labour enhanced methods (soft and	m		200	,
C11.4.6.1 Reflective plates C11.4.6.1 Steel plates No 400	C11.4.1.2	Terminal sections for 3,81 guardrails comprising of:				
C11.4.6.1 Steel plates No 400	(a)	End wings to SANS 1350	No		36	;
Steel piates 400	C11.4.6	Reflective plates				
End of Section	C11.4.6.1	Steel plates	No		400	,
End of Section						
End of Section						
End of Section						
End of Section						
End of Section						
End of Section						
End of Section						
End of Section						
End of Section						
End of Section						
End of Section						
End of Section						
End of Section						
End of Section						
End of Section						
End of Section						
	End of Section	on				1

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

				CHAPTER C1
ITEM	DESCRIPTION	UNIT	LIC	QTY
C11.5	FENCING			
C11.5.1	Supply and erect new fencing material for new fences and for supplementing material in existing fences which are being repaired or removed:			
C11.5.1.1	Zinc-coated barbed wire (grade, and size indicated)	km		2
C11.5.1.2	Zinc-coated smooth wire (grade and size Indicated)	km		2
C11.5.1.5	Barbed-tape security barrier	km		3
C11.5.1.6	Hinge joint mesh square	m²		0
C11.5.1.7	Standards (1.86 m, 2.5 kg/m mild steel y-section)	No		200
C11.5.1.8	Droppers (1.4 x 0.56 kg/m mild steel ridge back section)	No		750
C11.5.1.9	Straining posts, stays and anchors:			
(a)	Vertical			
(i)	Steel straining posts (with one stay and two stay)	No		40
C11.5.2	New gates (size and type indicated)	No		5
C11.5.3	Moving existing fences and gates:			
C11.5.3.1	Fences:			
(a)	Stock-proof fences	km		3
(d)	Security fences	km		1
C11.5.3.2	Gates	No		10
C11.5.4	Dismantling existing fences and gates:			
C11.5.1.1	Fences:			
(a)	Stock-proof fences	km		4
l				
End of Secti	on			

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

				CHAPTER C1
ITEM	DESCRIPTION	UNIT	LIC	QTY
C11.6	ROAD SIGNS			
C11.6.1	Road signboards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class I retro-reflective material, where the sign board is constructed from:			
C11.6.1.1	Aluminium sheet (2,0 mm thick):			
(a)	Area 0 to 0,5 m <sup>2</sup>	m²		200
(b)	Area exceeding 0,5 m2 but not 2,0 m²	m²		0
(c)	Area exceeding 2,0 m2 but not 10 m²	m²		100
C11.6.2	Extra over on item C11.6.1 for using:			
C11.6.3	Road sign supports (overhead road sign structures excluded):			
C11.6.3.2	Timber (diameter and type indicated)	m		1500
C11.6.4	Kilometre markers			
C111.6.4.1	Kilometre markers on posts (type and post indicated and reference to drawings)	No		14
C11.6.5.1	Excavating soft material and backfilling	m³		300
C11.6.5.2	Excavating soft or intermediate material and backfilling using labour enhanced construction methods	m³		
C11.6.5.3	Extra over item C11.6.5.1 and 2 for cement-treated soil backfill	m³		300
C11.6.9.1	Specialist installation of traffic signals	PC sum		1
C11.6.9.2	Handling cost, profit and all other charges of sub item C11.6.9.1	%		50000
End of Section	on	1		

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

				CHAPTER C1
ITEM	DESCRIPTION	UNIT	LIC	QTY
C11.7	ROAD MARKINGS AND ROAD STUDS			
C11.7.1	Road marking:			
C11.7.1.1	White lines broken or unbroken (100mm wide)	km		20
C11.7.1.2	Yellow lines broken or unbroken (150mm wide)	km		20
C11.7.1.4	White lettering and symbols (paint type indicated)	m <sup>2</sup>		200
C11.7.1.5	Yellow lettering and symbols (paint type indicated)	m <sup>2</sup>		50
C11.7.1.7	Transverse lines, painted island and arrestor bed markings (any colour) (paint type indicated)	m²		600
C11.7.5	Variations in rate of application:			
C11.7.5.1	White paint	1		60
C11.7.5.2	Yellow paint	1		60
C11.7.7	Road studs			
C11.7.7.1	Permanent road studs compliant to SANS 1442 (type & colours stated)	No		2000
C11.7.8	Setting out and premarking the lines (excluding traffic island markings, lettering and symbols)	km		60
C11.7.9	Re-establishing the painting unit during the defects notification period and at other instances on instruction of the Engineer	No		1
End of Section	on			

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

.=	BEGGE!BEIGH			CHAPTER C11
ITEM	DESCRIPTION	UNIT	LIC	QTY
11.8	LANDSCAPING AND PLANTING PLANTS			
C11.8.1	Trimming:			
211.8.1.1	Machine trimming	m²		12 000
11.8.1.2	Hand trimming	m²		75 000
211.8.3.3	Topsoiling within the road reserve where the following materials are used:			
a)	Topsoil obtained from within the road reserve or borrow areas	m³		1 500
2118.3.4	Topsoiling of borrowpits by using topsoil obtained from borrow areas or from the road reserve	m³		3 000
211.8.4.2	Sodding by using the following types of sods:			
a)	Nursery sods (type of grass specified)	m²		4 000
211.8.4.3	Hydroseeding:			
a)	Providing an approved seed mixture for hydroseeding	kg		50
b)	Providing an approved mulch	kg		50
c)	Hydroseeding	ha		8
211.8.5	Watering the grass when established by topsoiling only	kľ		500
				300
End of Section	n On		<u> </u>	

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

				CHAPTER C12.1
ITEM	DESCRIPTION	UNIT	LIC	QTY
C12.12	CONSTRUCTION DEWATERING			
C12.12	Establishment on site for construction dewatering	Lump Sum		1
C12.12	Installing and commissioning all requisite plant and equipment to undertake dewatering by well system offered An efficient and reliable submersible water pump/drainage pump should suffice as a dewatering)	No		1
F 1 (0 ::				
End of Secti	ION			

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

		ľ		CHAPTER C13
ITEM	DESCRIPTION	UNIT	LIC	QTY
C13.1	FOUNDATIONS			
C13.1.3	Excavation:			
C13.1.3.1	Excavating soft material situated within the following successive depth ranges:			
(a)	0 m up to 1,5 m	m <sup>3</sup>		1 700
(b)	> 1,5 m and < 3,0 m	m <sup>3</sup>		500
C13.1.3.2	Extra over subitem C13.1.3.1 for excavation in hard material irrespective of depth	m <sup>3</sup>		100
C13.1.6	Access and drainage:			
C13.1.6.1	Access	Lump Sum		1
C13.1.6.2	Drainage	Lump Sum		1
C13.1.7	Backfill to excavations utilising:			
C13.1.7.1	Material from excavation	m <sup>3</sup>		800
C13.1.9	Imported material	m <sup>3</sup>		550
C13.1.9	Fill within a restricted area (extra over item C5.2.2)	m <sup>3</sup>		250
C13.1.10	Haul in excess of 1,0 km on excavated material and on material imported for backfill, foundation fill and fill for caissons	m³-km		2000
C13.1.14.1	Rock fill	m <sup>3</sup>		700
C13.1.14.4	Mass concrete (Class 15/20)	m <sup>3</sup>		30
C13.1.14.5	Concrete blinding (75mm minimun thickness, Class 15/20)	m <sup>3</sup>		40
C13.1.16	Establishment on site for drilling of holes and grouting of rock fissures (type of drilling indicated):	Lump Sum		1
C13.1.17	Moving to and setting up equipment at each hole to be drilled for grouting:	No		30
C13.1.18	Drilling of holes for grouting (diameter and type of drilling indicated):	m		75
End of Section	on			

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

	1			CHAPTER C13.
ITEM	DESCRIPTION	UNIT	LIC	QTY
C13.1	FOUNDATIONS			
C13.1.20	Dowel bars:			
C13.1.20.1	Drilling and preparation of holes (diameter and length indicated)	m		75
C13.1.20.2	Supply and installation of dowel bars (Dowel bars, Y32 galvenised 2.5 m long and grouted in with an approved non-shrinkage grout)	kg		1500
End of Section	on			

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

		T	1	CHAPTER C13.
ITEM	DESCRIPTION	UNIT	LIC	QTY
C13.2	FALSEWORK, FORMWORK AND CONCRETE FINISH			
C13.2.1	Formwork to provide (class of finish indicated as F1) surface finish to (Outer barrel sides, headwalls, earwings, wingwalls and apron slab)	m <sup>2</sup>		700
C13.2.2	Vertical formwork to provide (class of finish indicated as F2) surface finish to (Inner barrel sides, headwalls, earwings and wingwalls)	m²		700
C13.2.3	Horizontal formwork to provide (class of finish Indicated as F2) surface finish to (barrel)	m²		390
C13.2.4	Inclined formwork to provide (class of finish indicated as F2) surface finish to (barrel)	m²		100
C13.2.6	Formwork to form open joints (between barrel sections)	m²		50
C13.2.7	Establishment on the site for sliding formwork operations	Lump Sum		1
C13.2.10	Provision of designs and drawings of falsework and formwork by an ECSA registered Professional Engineer or Technologist (description of member to which applicable)	Lump Sum		1
End of Section	on		1	

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

				CHAPTER C13.
ITEM	DESCRIPTION	UNIT	LIC	QTY
C13.3	STEEL REINFORCEMENT			
C13.3.1	Reinforcement for:			
C13.3.1.1	(Barrel, Earwings, Wingwalls, Apron Slab and Headwalls):			
(a)	Mild-steel bars	t		15
(b)	High-yield-stress-steel bars (type indicated)	t		96
(c)	Welded Steel Fabric	kg		300
End of Section	on			

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

				CHAPTER C13
ITEM	DESCRIPTION	UNIT	LIC	QTY
C13.4	CONCRETE			
C13.4.1.	Cast in situ concrete (Class of concrete and use or position in structure stated):			
C13.4.1.1	Strength concrete (class 30/20):			
(a)	Barrel	m³		785
(b)	Etc. For other parts of structure	m³		150
C13.4.5	Curing and surface protection of cast in situ concrete, as and where specifically required:			
C13.4.5.1	Indicate structural element and surface to be cured (Tenderer to specify method of curing):	m²		700
C13.4.5.2	Etc for other parts of structure (Tenderer to specify method of curing)	m²		450
End of Section	n			

THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

		1		CHAPTER C13
ITEM	DESCRIPTION	UNIT	LIC	QTY
C13.7	JOINTS			
C13.7.2	Filled joints:			
C13.7.2.1	(Between barrell sections with 20mm approved joint filler)	m <sup>2</sup>		20
C13.7.4	Sealing joints with:			
C13.7.4.1	Sealant (Sealant (Silicone sealant 20 mm x 20 mm between barrell sections)	m		80
End of Section	on			

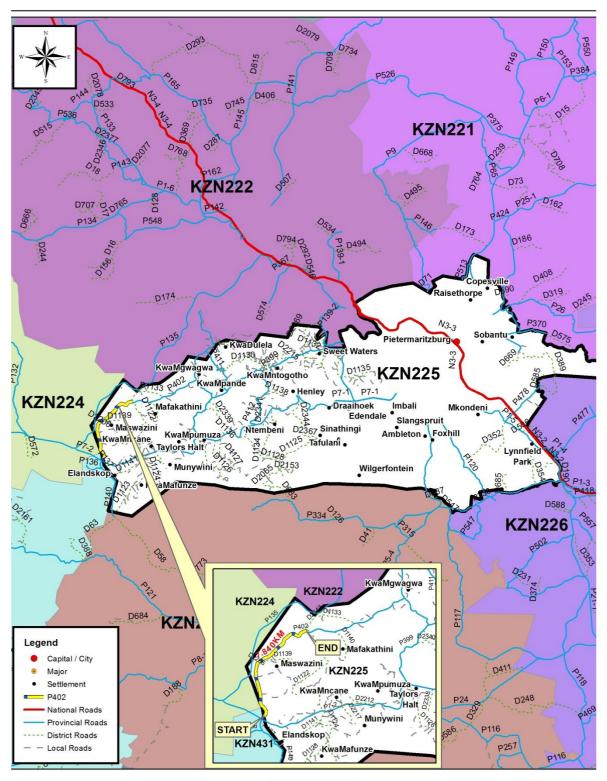
THE CONSTRUCTION OF EARTHWORKS, LAYERWORKS, SURFACING, DRAINAGE AND RETAINING STRUCTURES ON DISTRICT ROAD 1126, (KM 0+000 TO 5+500) IN THE KZN 225 TAYLORS HALT AREA

				CHAPTER C13.
ITEM	DESCRIPTION	UNIT	LIC	QTY
C13.8	ANCILLARY STRUCTURAL ELEMENTS			
C13.8.7.3	Numbers formed in concrete	No		1
(a)	Weep holes (75mm dia PVC)	m		30
C13.8.12	Synthetic-fibre filter fabric (type indicated and description)	m²		300
C13.8.15	Drainage strips (325mm wide DN1 Netlon drainage strips covered with filter fabric Grade B)	m		750
C13.8.16.1	Size (diameter) and type of pipe wrapped in synthetic – filter fabric as specified (Drainage cores - M65 Netlon pipe wrapped in filter fabric Grade B)	m		80
End of Section	n		<u> </u>	<u> </u>

## PART C4: SITE INFORMATION

TABL	E OF CONTENTS	Page
C4.1	LOCALITY PLAN	C177
C4.2	EXAMPLE OF CONTRACT SIGNBOARD DETAILS	C178
C4.3	EXISTING SERVICES REPORT	C180
C4.4	TRAFFIC INFORMATION	C181
C4.5	BASELINE RISK ASSESSMENT	C186
C4.6	ANY OTHER RELEVANT TECHNICAL REPORTS	C187

#### C4.1 LOCALITY PLAN

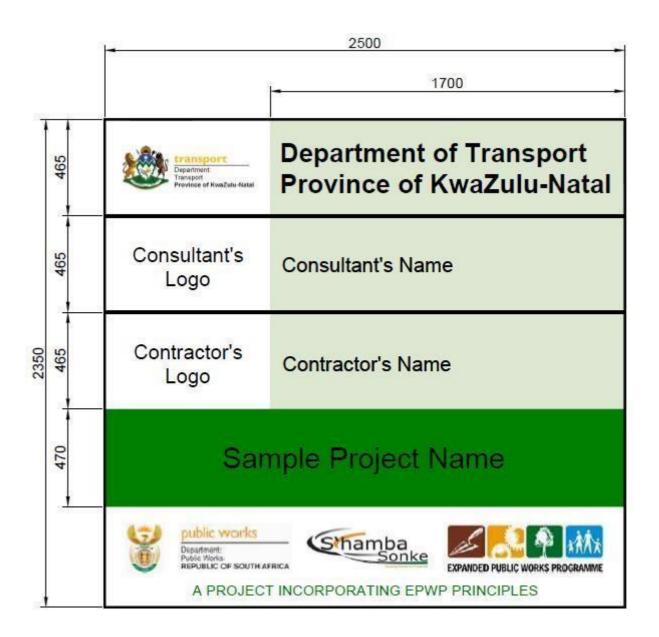


**LOCALITY PLAN** 

#### 4.2 EXAMPLE OF CONTRACT SIGNBOARD DETAILS

#### C4.2.1 CONTRACT SIGNBOARD FOR USE WHEN THE NYS PROGRAMME IS NOT REQUIRED:

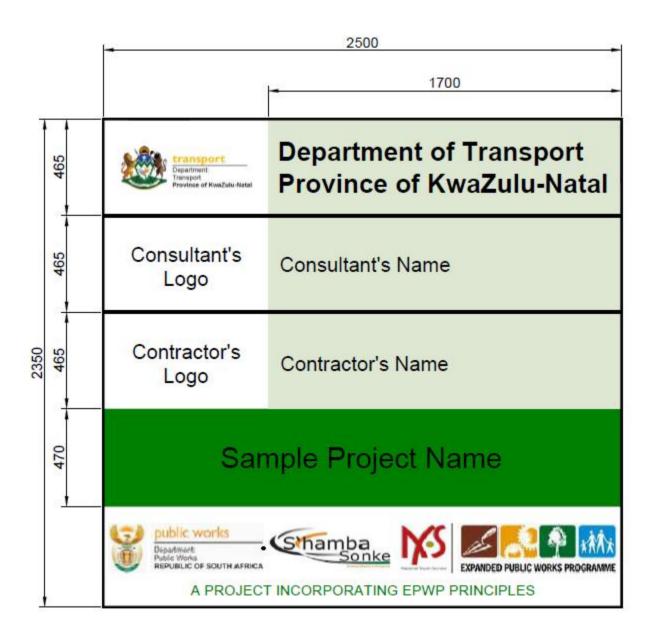
Note: The "S'hamba Sonke" logo, as indicated below, shall appear on the signboard for Provincial Road Maintenance Grant (PRMG) contracts only. In all other cases it shall be omitted.



Transp ort

#### C4.2.2 CONTRACT SIGNBOARD FOR USE WHEN THE NYS PROGRAMME IS REQUIRED:

Note: The "S'hamba Sonke" logo, as indicated below, shall appear on the signboard for Provincial Road Maintenance Grant (PRMG) contracts only. In all other cases it shall be omitted.



Transp ort

#### C4.3 EXISTING SERVICES REPORT

#### 1. Location of services

The following services are scheduled for relocation under this contract:

It is also expected that unknown buried domestic services crossings requiring relocation or protection may be encountered along the route as the work proceeds. The Contractor shall therefore make every effort to establish the location of any such unknown services in a particular area prior to excavations commencing in that area. Such efforts shall include the Contractor conducting a thorough visual surface inspection for services in the area, and also diligently enquiring of local landowners as to whether there are any known services which have not been shown on the drawings but which may be affected by the construction activities in that area, and any such services shall be brought to the attention of the Employer's Agent immediately. Exploratory <a href="https://example.com/hand-excavation-trenching-work-shall-be-carried-out-where-necessary-to-establish-the-exact-position-of-buried-services">https://example.com/hand-excavation-trenching-work-shall-be-carried-out-where-necessary-to-establish-the-exact-position-of-buried-services</a>.

The Contractor shall take note of the requirements of clause 1202 of the standard specifications with regard to services.

#### 2. Liaison with service owners

Immediately after the site has been handed over to the Contractor and prior to the commencement of any construction work on the site, the Contractor shall arrange a meeting with the relevant authorities to establish the exact location of the various services affected (if any), to plan the necessary services relocations (if required) and to obtain contact details for the service owners' technical and emergency staff.

Where services relocations are required, the Contractor shall arrange regular planning meetings with the service owners until such time as the services have been relocated and commissioned and the existing services uplifted and removed.

#### 3. Protection of existing services

Prior to the commencement of any construction work on the site, the Contractor shall establish markers at 50 m centres (or closer where necessary), clearly delineating the routes traversed by the services within the road reserve as confirmed by the service owners.

Excavation operations shall commence only after the existing services within or in the near vicinity of the excavations have been suitably protected against damage.

The Contractor shall take particular care when carrying out blasting, pneumatic or mechanical breaking, and general excavation operations in the vicinity of the services, and subcontractors, foremen and plant operators shall be fully briefed on precautionary measures to be taken before excavation commences in these areas.

#### 4. Relocation of services

Should any services need to be relocated, the Contractor shall be required to assist the service owner with programming, organising and carrying out the relocation work, in order to minimise any delays in the construction.

#### 5. Payment for the services relocation work

A provisional sum has been provided under section 1200 of the bill of quantities to cover the costs of any protection, relocation, realignment, removal or replacement of services that may arise.

#### **C4.4 TRAFFIC INFORMATION**

Signposting for this Contract
This is an extract for Traffic Signs Manual
Each Site needs to be carefully analysed to determine the extent and positions of signs.

#### 13.9.7 Reseal/Resurfacing Work - Just Completed

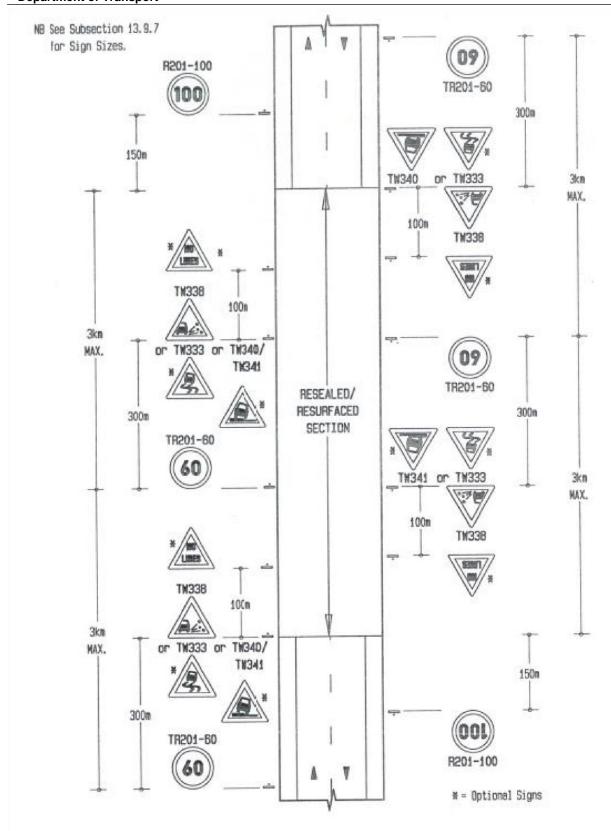
- 1 Figure 13.48 illustrates recommended signing levels where work on resealing of a section of roadway has just been completed. This work activity may occur on sections of roadway within a larger site and may occur in more than one place at a time within such a site. When this is the case, the signing should be adjusted to suit the overall signing requirements of the site. Any temporary speed limit should relate to that operating within the rest of the site and should be as high as is practical and safe (see Section 13.4).
- 2 Sign TW333 and sign TW338 should be considered when there is significant horizontal road curvature and/or the road crossfall or superelevation is also significant, as in hilly country, since the combination of loose stone chippings or dust on the road surface together with this type of road profile can lead to slippery conditions. Alternatively, sign TW333 may be used instead of sign TW338 if the condition of the road surface is considered to be a greater hazard than the risk of stone chippings being thrown up.
- 3 The sign sequence shown should be repeated at approximately three kilometre intervals and, if the road is one carriageway of a dual carriageway road, the signs shall be repeated on the right, on the median sland.
- 4 A similar level of signing is appropriate if an asphalt overlay or concrete surface has just been laid and traffic is using it for the first time. With this type of surfacing the use of SURFACE STEP advance warning signs TW340 and TW341 may also be appropriate.
- 5 If road markings are not likely to be re-marked shortly after re-opening the road to traffic, NO LINES advance warning signs should also be provided (see Volume 4, Chapter 3, Section 3.1).

#### Checklist

u	is a 3 km spacing of sign sets adequate?
	is the road surface slippery?
	is there a temporary step in the road surface?
	will road markings be re-marked shortly after re-open- ing the road?

Sign	No	Size (mm)	Quantity
60	TR201-60	1200	Plus 2 Every 3km
	TW338	1200	2 Plus 2 Every 3km
100	R201-100	1200	2
	TM333	1200	Plus 2 Every 3km <sup>(1)</sup>
	TN340 TN341	1200	Plus 2 Every 3km <sup>(2)</sup>
LIBES		1200	Plus 2 Every 3km (3)

- (1) Add signs TW333 at 3km intervals if many sharp curves exist especially in mountain passes where loose gravel and crusher dust are located on the road surface.
- (2) Use signs TM340 / TW341 as appropriate in place of TW333 or TM338 when resurfacing with asphalt overlay or concrete if a surface step is present.
- (3) Use text warning sign if repainting is not immediate.



# Province of KwaZulu-Natal Department of Transport

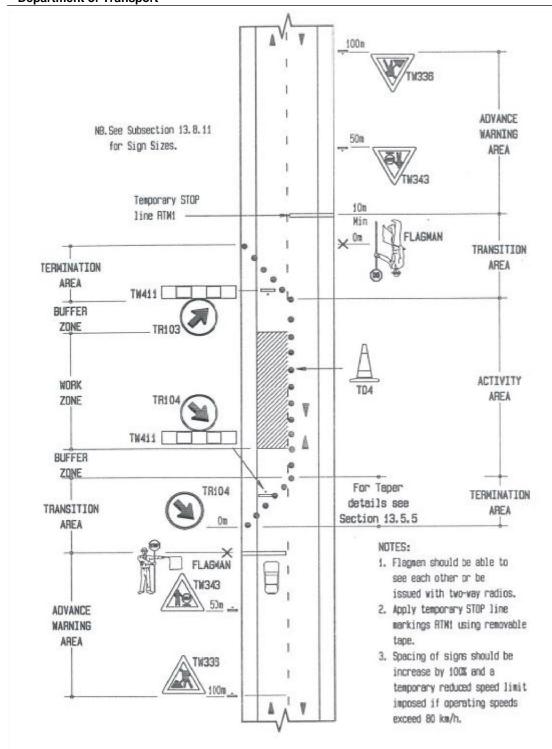
#### 13.8.11 STOP/RY-GO Traffic Control-Minor Works

- 1 STOP/RY-GO operation may be required to control traffic at a variety of short term roadworks sites where the remaining roadway is reduced to less than two lanes in width, for whatever reason. As such, STOP/RY-GO traffic control is effectively a temporary signing sub-system. It may be used on its own or it may be used locally, in more than one place, for short periods within a long roadworks site. The detail in Figure 13.40 may therefore be incorporated with other short term applications and is particuarly appropriate for urban areas.
- 2 The signing given in this detail is a minimised treatment for a very short term application lasting only one or two hours. For longer applications the signing should be upgraded to that covered by Subsection 13.9.3 and Figure 13.44. It should be considered as a daytime operation unless the site is very well illuminated at night. NO OVERTAKING signs TR214 should be carried by the maintenance unit and added to the illustrated sign sequence if required.
- 3 If operating speeds are in excess of 80 km/h additional speed limit signs TR201 should be displayed to reduce speed by a maximum of 20 km/h, or in 20 km/h increments to 80 km/h or 60 km/h as appropriate (see Section 13.4).
- 4 Flagmen must be well trained and shall operate in accordance with Figure 13.23. Whilst short term sites are likely to be short in length, if inter-visibility between flagmen cannot be guaranteed the flagmen should be equipped with two-way radios.
- 5 TRAFFIC CONE delineation devices TD4 and DE-LINEATOR PLATE hazard marker signs TW401/TW402 shall be spaced in accordance with Table 13.4 and all tapers shall conform to the provisions of Table 13.5. When cones are to be used during adverse light conditions, they shall be fitted with retroreflective sleeves. The mounting height of all signs shall be at least that given in Table 13.1 or higher. If the work unit's support vehicle is equipped with flashing yellow warning lights, it may benefit the safety of workers for the vehicle to be parked on the shoulder, at the work end of the approach Buffer Zone, between the workers and approaching traffic.

#### Checklist

	are operating speeds in excess of 80 km/h?
	do advance signs for the STOP/RY-GO control clash with other roadworks signs within the site?
	are the flagmen alert and well trained for their task?
	are the flagmen fully visible to oncoming traffic?
0	are the flagmen standing in a safe position?
	can the restriction be eliminated to permit two-way traffic by dusk?

	INTENANCE U		
Sign	No	Size (mm)	Quantity
	TW336	1200	5
	TW343	1200	5
STOP ET MA	R1.5A/ R1.5B	750	2
	TR103 TR104	1200	1 2
	TW411	300 X 1800	5
P	FLAGS	450 X 450	5
A	TD4	450 Min	20 Min. plus 10 per 100m site length
	TR214	1200	2
80	TR201-80 AND TR201-60	1500	2



#### **C4.5 BASELINE RISK ASSESSMENT**

#### **C4.5 ANY OTHER RELEVANT TECHNICAL REPORTS**

# ANNEXURE A: GUIDELINES FOR CONSTRUCTION AND MAINTENANCE PROJECTS DURING COVID-19 LOCKDOWN



# PROJECT SITE OCCUPATIONAL HEALTH AND SAFETY

GUIDELINES FOR CONSTRUCTION AND MAINTENANCE PROJECTS DURING COVID-19 LOCKDOWN

Revision 1/1 July 2020

### **Contents**

1	INTRODUCTION	C191
1.1	BACKGROUND	C191
1.2	PURPOSE	C192
1.3	OBJECTIVES	C192
2	RISK ASSESSMENT	C192
2.1	BACK TO BASICS	
2.2	IMPLEMENTATION OF CONTROL MEASURES	
3	SITE OPERATING PROCEDURES	C194
3.1	SELF-ISOLATION	
3.2	IF SOMEONE FALLS ILL	C194
3.3	TRAVEL TO SITE	
3.4	SITE ACCESS POINTS	C195
3.5	HAND WASHING	
3.6	TOILET FACILITIES	C195
3.7	CANTEENS AND EATING ARRANGEMENTS	
3.8	CHANGING FACILITIES, SHOWERS AND DRYING ROOMS	
3.9	AVOIDING CLOSE WORKING	
	GENERAL PRINCIPLES	
	SITE MEETINGS	
3.12	CLEANING	
4	CONSTRUCTION PROTOCOLS	C197
4.1	PHYSICAL DISTANCING AND HYGIENE PROTOCOL	
4.2	SITE TRANSPORTATION PROTOCOL	
4.3	CLEANING PROTOCOL	C202
4.4	SCREENING AND MONITORING PROTOCOL	
	ONYMS	
	TERMS & DEFINITIONS	
APPI	ENDIX A: SAFE PRACTICES ON SITE	C206
	ENDIX B: SUSPECTED OR CONFIRMED CASE OF COVID-19	
	ENDIX C: COVID-19 DAILY SYMPTOM MONITORING TOOL	
APPI	ENDIX D: COVID-19 BASELINE RISK ASSESSMENT	C209
Con	tent of Figures	
	e 1: COVID-19 Alert Levels	
	e 2: Risk exposures	
	e 3: Infection control strategies	
Figure	e 4: Symptoms of COVID-19	C194

#### 1 INTRODUCTION

Coronavirus Disease 2019 (COVID-19) is a respiratory disease caused by the SARS-CoV-2 virus. In order to reduce the impact of COVID-19 on businesses, workers, customers and the public, the Kwazulu-Natal Department of Transport (KZNDOT), within the parameters of the COVID-19 regulatory framework, want to ensure that all those businesses, workers, customers and public it's interacting with are in compliance to the requirements as stipulated to ensure a safe workenvironment for all.

On 23 April 2020, President Cyril Ramaphosa addressed the nation and announced that the country would resume economic activity in a phased approach from 1 May 2020. The lockdown levels depicted by Figure 1 below, will be lifted in phases, level 5 the highest and level 1 being the lowest as depicted below:



Figure 1: COVID-19 Alert Levels

#### 1.1 BACKGROUND

Occupational Health and Safety are a fundamental segment of the construction industry. Safety must be embedded in all processes, implementing a top down approach, enabling the adoption of a safe and healthy working culture by all. Individual businesses or workplaces must have COVID-19 risk assessments and prevention and mitigation plans in place, and must conduct worker education on COVID-19 and protection measures:

- Identification and protection of vulnerable employees
- Safe transport of employees
- Screening of employees on entering the workplace
- Prevention of viral spread in the workplace
- · Hand sanitisers and face masks
- Cleaning of surfaces and shared equipment
- Good ventilation
- Shift arrangements and canteen controls
- Managing sick employees

In addition to the above, monitoring systems must be in place to ensure compliance with safety protocols and to identify infections among employees.

#### 1.2 PURPOSE

This document sets out the key principles and minimum requirements of the KZNDOT that define responsible, healthy and safe operations for road construction related operations working under COVID-19 Lockdown. The present state of the lockdown is geared toward the revival of economic activities and to allow employees involved in permitted services to resume work under certain conditions. This COVID-19 guidance has been developed on the basis of traditional infection prevention and occupational hygiene practices.

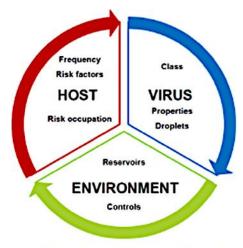
#### 1.3 OBJECTIVES

The aims of this document are to:

- Keep workers and the wider public healthy and safe by preventing the spread of COVID-19.
- Apply relevant guidance from the Department of Health, Department of Employment and Labour and other Government Authorities to the construction environment.
- Encourage a safe and respectful work environment and good communication between all stakeholders.
- Sit alongside existing health and safety controls to ensure workers are safe on site.

Contractors and their employees should use this guidance to help identify risk levels on construction sites and to identify any appropriate control measures to be implemented. Additional guidance may be needed as the conditions of the COVID-19 outbreak change and as new information about the virus, its transmission and impact become available. It focuses on, as well as considerations for, the need for contractors to implement engineering, administrative and work practice controls and personal protective equipment (PPE).

#### 2 RISK ASSESSMENT



Different workers have different risk exposures

The legislation governing workplaces in relation to COVID –19 is the Occupational Health and Safety Act, Act 85 of 1993, as amended, and with the Hazardous Biological Agents Regulations and the Construction Regulation 2014. Section 8(1) of the Occupational Health and Safety Act, Act 85 of 1993, as amended, requires the employer to provide and maintain a working environment that is, to the extent possible reasonably practicable, as amended. Specifically, Section 8(2)(b) requires steps that may be reasonably practicable to eliminate or mitigate any hazard or potential hazard prior to the use of personal protective equipment (PPE).

#### 2.1 BACK TO BASICS

Risk Assessment should be done to determine the **RISK** of **EXPOSURE** and to communicate this to the **WORKERS**.

Figure 2: Risk Exposures

#### 2.2 IMPLEMENTATION OF CONTROL MEASURES

Before the implementation of control measures, current risk assessments need to be reviewed and updated, taking into account the new hazards posed by exposure to COVID-19 in the workplace. This is in accordance with Section 8 (2) (d) of the OHS Act.

With COVID-19, it may not be possible to eliminate the hazard, the most effective protection measures are engineering controls, administrative controls, safe work practices (a type of administrative control), and Personal Protection Equipment.

Measures for protecting workers from exposure to, and infection with, SARS-CoV-2, the virus that causes Coronavirus Disease 2019 (COVID-19), depend on the type of work being performed and exposure risk, including potential for interaction with people with suspected or confirmed COVID-19 and contamination of the work environment.

Contractors should adapt infection control strategies based on a thorough hazard assessment, using appropriate combinations of engineering and administrative controls, safe work practices, and personal protective equipment (PPE) to prevent worker exposures.

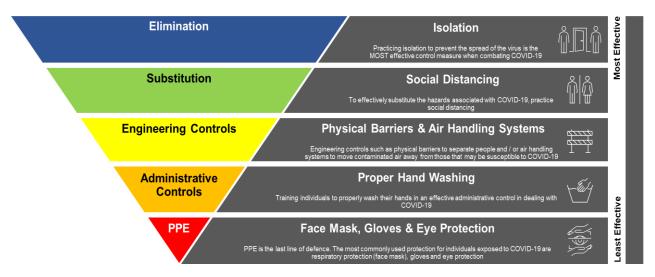


Figure 3: Infection Control Strategies

In preventing occupational exposure to COVID-19 also require Contractors to train workers on elements of infection prevention, including PPE. This would assist Contractors to identify:

- Exposure Levels
- "High Contact" Activities, and
- Vulnerable Workers and Special Measures

Contractors are expected to undertake and champion the principles of constantly focussing on eliminating or reducing the risk of COVID-19 transmission to an acceptable level, engaging meaningfully with their workforce, and making worker health a key priority. A Baseline Risk Assessment is included under Appendix D: COVID-19 Baseline Risk Assessment.

#### 3 SITE OPERATING PROCEDURES

KZNDOT Construction sites operating during the Covid-19 pandemic need to ensure that they protect their workforce and minimise the risk of infection spread. In line with government guidelines on social distancing, this guideline is intended to implement effective steps at all KZNDOT construction sites of any size. These are extraordinary situations, and the KZNDOT intends to abide to the latest COVID-19 advice from national government.

#### 3.1 SELF-ISOLATION

Anyone who meets one of the following criteria should not come to site:

- Has a high temperature or a new persistent cough;
- Is a vulnerable person (by virtue of their age, underlying health condition, clinical condition or pregnancy); or
- Is living with someone in self-isolation or with a vulnerable person.

#### 3.2 IF SOMEONE FALLS ILL

If a worker develops a high temperature or a persistent cough while at work, they should:

- Return home immediately;
- Avoid touching anything; and
- Cough or sneeze into a tissue and put it in a bin, or if they do not have tissues, cough and sneeze into the crook or into the bent elbow.

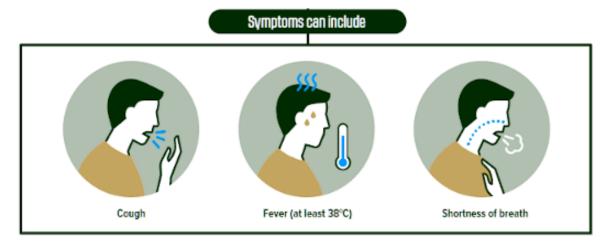


Figure 4: Symptoms of COVID-19

They must self-isolate and not return to work until their period of self-isolation has been completed and his or her negative status has been confirmed.

#### 3.3 TRAVEL TO SITE

Wherever possible workers should travel to site alone using their own transport, and construction sites need to consider:

- Parking arrangements for additional cars, taxis, buses, etc;
- Other means of transport to avoid public transport e.g. cycling;
- They must ensure disinfecting the alternative transport before and after use; and Public Transport Regulations in respect of COVID-19 are adhered to;

- Providing hand cleaning facilities at entrances and exits. This should be soap, water and paper towels (and not fabric towels) wherever possible or hand sanitiser if water is not available; and
- How someone detected vulnerable after screening, taken ill and would get transported home.

#### 3.4 SITE ACCESS POINTS

- Stop all non-essential visitors
- People, be it workers or visitors, without relevant face masks should not be allowed to enter construction sites; and workers should wear face masks at all times.
- · Introduce staggered start and finish times to reduce congestion and contact at all times
- Monitor site access points to enable social distancing you may need to change the number
  of access points, either increase to reduce congestion or decrease to enable monitoring
- Remove or disable entry systems that require skin contact e.g. fingerprint scanners
- Require all workers to wash or clean their hands before entering or leaving the site or as frequent as possible
- Allow plenty of space (two metres) between people waiting to enter site
- Regularly clean common contact surfaces in Site Office, Access Control and delivery areas e.g. scanners, turnstiles, screens, telephone handsets, desks, particularly during peak flow times
- Reduce the number of people in attendance at site inductions and consider holding them outdoors wherever possible
- Drivers should remain in their vehicles if the load will allow it and must wash or clean their hands before unloading goods and materials.

#### 3.5 HAND WASHING

- Provide additional hand washing facilities to the usual welfare facilities on a large spread out site or significant numbers of personnel on site
- Ensure soap, fresh water and paper towels is always readily available and kept topped up
- Provide hand sanitiser where hand washing facilities are unavailable
- Regularly clean the hand washing facilities and check soap and sanitiser levels
- Provide suitable and enough rubbish bins for hand paper towels with regular removal and disposal.
- Sites will need extra supplies of soap, hand sanitiser and paper towels and these should be securely stored.

#### 3.6 TOILET FACILITIES

- Restrict the number of people using toilet facilities at any one time e.g. use a welfare attendant
- Wash hands before and after using the facilities
- Enhance the cleaning regimes for toilet facilities particularly door handles, locks and the toilet flush handles or buttons
- Portable toilets should be avoided wherever possible, but where in use these should be cleaned and emptied more frequently
- Provide suitable and sufficient rubbish bins for hand towels with regular removal and disposal.

#### 3.7 CANTEENS AND EATING ARRANGEMENTS

Whilst there is a requirement for construction sites to provide a means of heating food and making hot drinks, these are exceptional circumstances and where it is not possible to introduce a means of keeping equipment clean between use, kettles, microwaves etc. must be removed from use.

The workforce should also be required to stay on site once they have entered it and not use local shops.

- Dedicated eating areas should be identified on site to reduce food waste and contamination
- Break times should always be staggered to reduce congestion and contact
- Hand cleaning facilities or hand sanitiser should be available at the entrance of any room where people eat and should be used by workers when entering and leaving the area
- The workforce should be asked to bring pre-prepared meals and refillable drinking bottles from home
- Workers should sit 2 metres apart from each other whilst eating and avoid all contact
- · Where catering is provided on site, it should provide pre-prepared and wrapped food only
- Crockery, eating utensils, cups etc. should not be used
- Drinking water should be provided with enhanced cleaning measures of the tap mechanism introduced
- Tables should be cleaned between each use
- All rubbish should be put straight in the bin and not left for someone else to clear up
- All areas used for eating must be thoroughly cleaned at the end of each break and shift, including chairs, door handles, vending machines and payment devices.

#### 3.8 CHANGING FACILITIES, SHOWERS AND DRYING ROOMS

- Always introduce staggered start and finish times to reduce congestion and contact
- Introduce enhanced cleaning of all facilities throughout the day and at the end of each day
- Consider increasing the number or size of facilities available on site if possible
- Based on the size of each facility, determine how many people can use it at any one time to maintain a distance of 1 ½ metres
- Provide suitable and enough rubbish bins in these areas with regular removal and disposal.

#### 3.9 AVOIDING CLOSE WORKING

There will be situations where it is not possible or safe for workers to distance themselves from each other by 1.5 metres.

#### 3.10 GENERAL PRINCIPLES

- Non-essential physical work that requires close contact between workers should not be carried out
- Work requiring skin to skin contact should not be carried out
- Plan all other work to minimise contact between workers
- Re-usable PPE should be thoroughly cleaned after use and not shared between workers
- Single use PPE should be disposed of so that it cannot be reused
- Stairs should be used in preference to lifts or hoists
- Where lifts or hoists must be used:
  - Always lower their capacity to reduce congestion and contact
  - o Regularly clean touchpoints, doors, buttons etc.
- Increase ventilation in enclosed spaces
- Regularly clean the inside of vehicle cabs and between use by different operators.

#### 3.11 SITE MEETINGS

- Only absolutely necessary meeting participants should attend
- Attendees should be two metres apart from each other
- Rooms should be well ventilated / windows opened to allow fresh air circulation
- Consider holding meetings in open areas where possible.

#### 3.12 CLEANING

Enhanced cleaning procedures should be in place across the site, particularly in communal areas and at touch points including:

- · Taps and washing facilities
- Toilet flush and seats
- Door handles and push plates
- Handrails on staircases and corridors
- Lift and hoist controls
- Machinery and equipment controls
- Food preparation and eating surfaces
- Telephone equipment
- · Keyboards, photocopiers and other office equipment

Rubbish collection and storage points should be increased and emptied regularly throughout and at the end of each day.

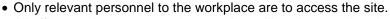
#### 4 CONSTRUCTION PROTOCOLS

The core principle behind this "Construction Protocols" is to protect the health and safety of all workers required to perform duties during the COVID-19 crisis, including related health and safety impacts on operations related to operating under a COVID-19 environment, as well as protecting the wider KwaZulu-Natal population from transmission and spread of the virus.



Before arriving on Site

- Each Contractor must have a plan detailing the steps they will take to mitigate risks, including those presented by COVID-19. The details of the plan must be communicated to workers before they start work.
- Before any activity is recommenced the Contractor must ensure that all hazards have been reviewed and appropriately controlled before work activity is commenced after lockdown.
- Where possible, conduct a remote induction before arrival on site, this can be done via video conferencing or by phone.
- If an in-person induction is required, the **Physical Distancing and Hygiene Protocol** must be followed.
- All workers shall undergo a screening process to ensure they are fit for duty by confirming their health status.
- Contractors must understand how workers will travel to and from site and will communicate the **Site Transportation Protocol** to all.
- Ensure all workers understand when additional PPE may be required due to COVID-19 and that workers have access to the correct PPE as per the Department of Employment and Labour guidelines. When required to use face masks or gloves please follow these processes.





- A daily register of workers entering and leaving site must be completed along with a health declaration. Use your existing sign in register or the example Sign-in register.
- Signage reminding workers of the COVID-19 Physical Distancing and Hygiene Protocol will be posted at the site entrance and in common areas where appropriate.



- All work is to be undertaken in such a way as to reduce any possible contact between workers and to promote physical distancing wherever possible, as per the Physical Distancing and Hygiene Protocol.
- All visitors to the site, such as necessary delivery workers, will be restricted to one person wherever possible. These workers must follow the Site Transportation Protocol.
- All offices and jobsites must implement cleaning measures as per the Cleaning Protocol.
- All tools, equipment, plant and vehicles must be used in alignment with the Cleaning Protocol.
- Toolbox talks should be held with physical distancing in place as per the Physical Distancing and Hygiene Protocol.
- Additional sanitary measures are to be implemented on site to prevent the spread of COVID-19 e.g. hand washing stations, provision of additional hand sanitizer, provision of disinfectant wiping products, as per the Physical Distancing and Hygiene Protocol.
- Smokers must follow the Physical Distancing and Hygiene Protocol.
- A COVID-19 Response plan must be available and accessible on site.



Leaving Site

- Workers must use the sign-in register to sign out.
- When returning home, workers will need to follow the necessary hygiene measures.
- Each site must be cleaned and sanitised at the end of the working day or end of each shift, as per the Cleaning Protocol.
- All waste and disposable PPE must be removed from site and securely disposed of as per the Cleaning Protocol.
- Workers must follow the Site Transportation Protocol.

#### 4.1 PHYSICAL DISTANCING AND HYGIENE PROTOCOL

Physical distancing, also known as "social distancing", is about keeping a safe distance from others. For physical distancing, at least one and ½ metre's separation is required at work, and two metres in uncontrolled environments, like in public. This aligns with World Health Organisation advice. We expect one and ½ metre's separation between people at work as the minimum and greater separation where it is reasonably practicable to do so. This is important to help protect us from COVID-19, which spreads via droplets from coughing and sneezing.

General Working Arrangements

- Keep team sizes as small as possible.
- Keep a record of who is in each team every day as it is required to assist contact tracing.
- Site teams are encouraged to put forward split/alternating shifts to avoid extensive intermingling to reduce potential of exposure.
- Work site is always to be segregated into zones (or by other methods) as much as possible to keep different teams/trades physically separated.
- Where possible, a one-way system in high-traffic areas, such as lifts, stairwells and scaffolds (Where Applicable).
- Where practical, all office employees supporting a project, work remotely.
- When using a vehicle, the Cleaning Protocol needs to be followed.
- When using a vehicle, limit this to one/two person per vehicle if possible.

#### External One member of the crew nominated to receive supplies etc. Interfaces Keep the engagement with the other person as brief as possible and maintain a two-metre physical distance. Ask for paperwork to be emailed rather than handed over as much as possible. If unavoidable, then either wear gloves when handling the item or wash hands before and after handling said items. Site Entry Limit visitors to site wherever possible. Introduce staggered start and finish times where possible to reduce congestion and contact. Monitor site access points to enable physical distancing – you may need to change the number of access points, increase to reduce congestion or decrease to enable monitoring. Where entry systems that require skin contact, the Cleaning Guide must be followed. Require all workers to wash or clean their hands before entering and leaving the site. Allow plenty of space 1½ metres between people waiting to enter site. Regularly clean common contact surfaces in reception, office, access control and delivery areas e.g. scanners, turnstiles, screens, telephone handsets, desks, particularly during peak flow times. Where possible, conduct a remote induction before arrival on site, this can be done via video conferencing or by phone. If an in-person induction is required, reduce the number of people and hold them outdoors wherever possible. Delivery drivers should remain in their vehicles if the load will allow it and must wash or clean their hands before unloading goods and materials. Any sign in registers should be recorded by one person where possible – do not pass material around the group and minimise contact with any screens. Site Meetings Only absolutely necessary meeting participants should attend. Attendees should be two metres apart from each other Rooms should be well ventilated / windows opened to allow fresh air circulation. Hold meetings in open areas where possible. Meetings are to be held through teleconferencing or videoconferencing where possible. **Avoiding Close** Risk assessments and method statements must be updated to include Working COVID-19 control measures. At least 11/2 metre's separation is required at work. KZNDOT expect 11/2 metre separation between people at work as the minimum and greater separation where it is reasonably practicable to do so. If it is not possible or safe for workers to distance themselves by one metre for a work activity, the works should not be carried out. Re-usable PPE should be thoroughly cleaned after use and not shared between workers. Single use PPE should be disposed of so that it cannot be reused. Stairs should be used in preference to lifts or hoists. Where lifts or hoists must be used:

Lower their capacity to reduce congestion. Regularly clean touchpoints, doors, buttons etc.

Increase ventilation in enclosed spaces

#### **Toilet Facilities** Physical distancing rules apply to the use of shared facilities, including toilets. Wash hands before and after using the facilities. Enhance the cleaning regimes for toilet facilities particularly door handles, locks, toilet flush and sanitary bins. Provide suitable and sufficient rubbish bins for hand towels with regular removal and disposal. Eating If you need to leave site for any reason, follow site entry procedures on Measures return. Dedicated eating areas should be identified on site to reduce food waste and contamination. Break times should be staggered to reduce congestion and contact at all Hand cleaning facilities or hand sanitiser should be available at the entrance of any room where people eat and should be used by workers when entering and leaving the area. The workforce should be asked to bring pre-prepared meals and refillable drinking bottles from home. Workers should sit 2 metres apart from each other whilst eating and avoid all contact. Where catering is provided on site, it should provide pre-prepared and wrapped food only. Shared crockery, eating utensils, cups etc. should not be used. Tables should be cleaned between each use. All rubbish should be put straight in the bin and not left for someone else to clear up. All areas used for eating must be thoroughly cleaned at the end of each break and shift, including chairs, door handles. Limit access and use of water fountains. Consider numbers on site for site facilities as physical distancing may require additional space/facilities. Changing Introduce staggered start and finish times to reduce congestion and contact Facilities, at all times. Showers and Introduce enhanced cleaning of all facilities throughout the day and at the Drying Rooms end of each day. Consider increasing the number or size of facilities available on site if possible. Based on the size of each facility, determine how many people can use it at any one time to maintain a distance of one metre. Provide suitable and sufficient rubbish bins in these areas with regular removal and disposal. General Each worker must sanitise their hands with hand sanitiser or soap and Hygiene running water before entry onto site, use warm water if available. Set up a specific place near the entry of the site for handwashing and/ or sanitising. Any personal items brought to site by workers must be segregated (kept separate from other workers items). Individual PPE for workers must be kept separate from other workers PPE and cleaned correctly as per the Cleaning Protocol. All eating and drinking utensils to be cleaned by the user. Have paper towels accessible to dry. **Smoking** Smokers/vapers must use designated area or do so off-site and butts are to be placed in the designated receptacle. Hands must be washed before and after smoking. Stand so that smoke or vapor produced is not going into another person's breathing zone.

#### Hand Washing

- Provide additional hand washing facilities to the usual welfare facilities on large, spread out sites or significant numbers of personnel on site.
- Ensure soap and fresh water is readily available and kept topped up at all times.
- Provide hand sanitiser where hand washing facilities are unavailable.
- Regularly clean the hand washing facilities and check soap and sanitiser levels.
- Sites will need extra supplies of soap, hand sanitiser and paper towels and these should be securely stored.

#### 4.2 SITE TRANSPORTATION PROTOCOL



Employers are required to have an understanding of how workers will travel to and from site.



Workers are to travel to the site one person per vehicle where possible.



Log is to be kept recording who has arrived on site, how they travelled and who they travelled with for contact tracing purposes.



Workers must travel home in the same vehicle as they arrived in.



Handwashing protocols to be observed before entering site.

Any travel managed by the employer should ensure that adequate steps can be achieved for this transport which includes:

Workers travel

to site



Allowing for spaces between passengers.



Hygienic washing of hands before and after the journey.



Follow Vehicle Cleaning Procedures as per the Cleaning Protocols.



Restricting equipment and baggage to trailers and or separate parts of the vehicle.



Deliveries to site should be delivered by one person only where possible.



Handwashing protocols to be observed once arrived at site.

Deliveries to site



Sign-in register must be completed for persons delivering goods to site.



1,5 m physical distancing rules to be applied at all times.

#### 4.3 CLEANING PROTOCOL



Construction Sites operating under Coronavirus COVID-19 Lockdown need to ensure they are protecting their workforce and minimising the risk of spread of infection.

#### Key Cleaning Tips

All construction sites (offices and jobsites included) should implement additional cleaning measures of common areas to help minimise the spread of COVID-19. Consider your work environment and what is frequently used and touched by workers, customers and others. The virus can be spread from person to person or by touching unclean equipment or surfaces. To stop the spread, focus efforts on cleaning areas where the virus is more likely to spread, such as the kitchen and toilet.

- Schedule regular cleaning.
- Use a suitable cleaning product.
- Use disposable cloths, if available.
- Always wear disposable gloves when cleaning. When finished, place used gloves in a rubbish bin.
- Wear disposable gloves while handling soiled items.
- Wash hands immediately after removing gloves or after handling these items.

Physical distancing should also be practiced when cleaning offices and jobsites. Refer to the **Physical Distancing and Hygiene Protocol** for more information.

#### Disinfecting Cleaning Aids

Cleaning aids, such as cloths or mops, must be germ-free or they'll spread germs to other surfaces. To help prevent the spread of germs:

- Use disposable cloths or paper towels when possible.
- Reusable cloths should be disinfected or washed after each use.
- Wash brushes in a dishwasher regularly or clean with detergent and warm water after each use.
- Use two buckets for mopping one for detergent and the other for rinsing.
- Mops and buckets should be cleaned and dried after each use.

#### Site Cleaning

Before leaving the jobsite at the end of the working day or end of each shift, wipe down any tables/surfaces with soapy water or cleaning agents where possible. All workers must be checked out of site and record kept daily.

Common touch points may include:

- All waste and disposable PPE must be securely disposed of.
- All door handles, railings and personal workstation areas are wiped down with a disinfectant, such as disinfectant wipes. Individuals are responsible for cleaning their workstation area with disinfectant wipes.
- Clean all 'high-touch' surfaces such as desks, counters, tabletops, doorknobs, bathroom fixtures, toilets, light switches, phones, and keyboards every day with antiseptic wipes or disinfectant, including bleach solutions.

#### Cleaning Bathrooms, Toilets and Showers

Clean toilets with a separate set of cleaning equipment (disposable cleaning cloths, mops, etc).

Clean sinks frequently if they're used regularly. If your jobsite has a shower:

- Clean shower trays frequently, if used regularly.
- If a shower has not been used for a while, let it run with hot water before using
  it.
- Keep tiles and grout in good condition.
- Clean shower curtains frequently. Common toilet touch points may include:
- Keep the U-bend and toilet bowl clean by flushing after each use.
- · Limescale should be regularly removed using a descaling product.
- Keep the toilet seat, handle and rim clean by using a disinfectant.

# Cleaning Tools and Equipment

- Clean tools and equipment before and after each day's work with a disinfectant, concentrating on points of contact such as handles.
- Wash your hands after handling tools and equipment to prevent the spread of germs.
- If possible, don't share tools on-site. If sharing cannot be prevented, take precautions and follow the hand washing guide before and after each use.

#### Cleaning Vehicles

- Have dedicated drivers when using vehicles to avoid the spread of germs.
- Don't share vehicles if possible, if you need to use a shared vehicle then wipe down the common touched areas of the vehicle after each use (steering wheel, handbrake, gear stick, dashboard, handles, etc) and wash hands before and after using the vehicle.
- Wipe down the inside and common touched areas of the vehicle before and after each day.
- Have one person per vehicle where possible. If you are required to have more than one person then keep as much distance between people as possible, open the windows to keep air circulating and passengers to face towards the window to reduce the spread of germs.
- If you need to have multiple people in a vehicle, then where possible, split teams into groups and stay in those groups when you travel together.

#### Cleaning PPE

- Work clothes to be placed in washing machines and clean reusable PPE.
- Read and follow directions on the labels of laundry or clothing and detergent.
   In general, wash and dry laundry and clothing with the warmest temperatures recommended on the label.
- When handling soiled laundry wash your hands afterwards. All clothes and towels should be washed with a laundry product to prevent germs from spreading.
- Don't leave laundry in the washing machine any remaining germs can multiply rapidly.

## Specialist Clean

- If a worker is unwell and removed from site, a specialist clean will be completed in the area/ areas identified where the worker was working and has accessed. These areas are to be isolated until a specialist clean has taken place.
- All equipment and vehicles used must be cleaned down and disinfected, concentrating on points of contact such as handles, steering wheels etc.

#### 4.4 SCREENING AND MONITORING PROTOCOL

Construction Sites operating under Coronavirus COVID-19 Lockdown need to ensure they are protecting their workforce and minimising the risk of spread of infection. Screening is a method to assess the possibility of employees and visitors who may have symptoms or have been infected with COVID-19. Rigid screening of employees must take place every day before they enter the workplace. This will be the most effective way to control the spread of the virus within the workplace.

Employees should be screened for COVID-19 related symptoms and report such symptoms to a designated person and / or occupational health practitioner prior to entry into the workplace or work area in order for a decision to be made as to the staff member's continued attendance at work.

#### During Screening

- At the start of a workday/shift and prior to ending the workday/shift, designated persons and / or occupational health practitioner must check with employees whether they have experienced sudden onset of any of the following symptoms: cough, shortness of breath or fever/chills(or ≥ 38°C measured temperature if this is available at the worksite), in the past 24 hours as outlined in *Daily Symptom Monitoring Tool*.
- If an employee reports any of the above-mentioned symptoms, they should immediately be provided with a FFP1 surgical mask and referred to the designated staff at the workplace so that arrangements can be made for COVID-19 testing at the closest testing centre.
- If employee report any additional symptoms as outlined in the symptom monitoring sheet, s/he should be provided with a surgical mask and referred to the occupational health clinic, family practitioner or primary care clinic for further clinical evaluation and requirement for COVID-19 testing if indicated.
- On receiving their results, the employee and/or health professional supporting
  the employee should notify their workplace so that the employee is managed
  accordingly. The workplace should proactively take steps to obtain this
  information to avoid any delays in reporting.

# After isolation or quarantine period

- Undergo medical evaluation to confirm that they are fit to work
- Wearing of surgical masks at all times while at work for a period of 21 days from the initial test
- Implement social distancing measures as appropriate (in the case of health workers avoiding contact with severely immunocompromised patients)
- Adherence to hand hygiene, respiratory hygiene, and cough etiquette
- Continued self-monitoring for symptoms, and seek medical re-evaluation if respiratory symptoms recur or worsen

<sup>&</sup>quot;Appendix C: COVID-19 Daily Symptom Monitoring Tool" is a monitoring Tool to track construction workers on a daily basis for two weeks.

### **ACRONYMS**

PPE	Personal Protective Equipment
WHO	World Health Organization
NICD	National Institute of Communicable Diseases
RR	Residual Risk
OHSA	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)

#### **KEY TERMS & DEFINITIONS**

Contractor	Is defined as a person or company that arranges to supply materials or workers for building or for moving goods.
Extremely Vulnerable Persons	Defined as someone who is solid organ transplant recipients; people with specific cancers: people with cancer who are undergoing active chemotherapy or radical radiotherapy for lung cancer; people with cancers of the blood or bone marrow such as leukaemia, lymphoma or myeloma who are at any stage of treatment; people having immunotherapy or other continuing antibody treatments for cancer; people having other targeted cancer treatments which can affect the immune system, such as protein kinase inhibitors or PARP inhibitors; people who have had bone marrow or stem cell transplants in the last 6 months, or who are still taking immunosuppressive drugs; People with severe respiratory conditions including all cystic fibrosis, severe asthma and severe COPD; People with rare diseases and inborn errors of metabolism that significantly increase the risk of infections (such as SCID, homozygous sickle cell); People on immunosuppression therapies sufficient to significantly increase risk of infection; Women who are pregnant with significant heart disease, congenital or acquired.)
Physical Distancing	Physical distancing, also known as "social distancing", is about keeping a safe distance from others.
Safe Work	Safe work practices are types of administrative controls that include procedures for safe and
Practices	proper work used to reduce the duration, frequency, or intensity of exposure to a hazard.
Screening	Screening is a way for health workers to find out if you may have COVID-19 or not. The health worker will ask you questions and scan your forehead to take your temperature.
Workplace	Workplace means any premises or place where a person performs work.

#### APPENDIX A: SAFE PRACTICES ON SITE

Using Face Masks on Site



Wash Hands First Always make sure you wash your hands thoroughly before and after touching a mask.



Masks

There are many kinds of masks, depending on the task.



The Right Side

There is a metal clip at the top of the mask.



**Placement** 

Place the metal clip across the top of your nose.



Attach the Mask

Attach the mask by pulling the elastic bands over your ears.



Stretch Down Stretch the mask down, so that it covers your chin.



Adjust

Bend the metal clip around your nose so that it sits securely.



Taking off the Mask

Pull the elastic bands away from your ears.



Disposal

Always place the used mask in a closed rubbish bin for secure disposal.

Using Face Masks on Site



Any time you are completing a manual task

Use your usual work safety gloves



If you are cleaning any surfaces

Use disposable gloves for this and throw them in the bin when you finish cleaning



Avoid touching your face while wearing gloves



Remove your gloves and then wash your hands prior to eating, drinking or smoking/vaping



Practice good hand hygiene and good cough and sneeze etiquette while wearing gloves

#### **APPENDIX B: SUSPECTED OR CONFIRMED CASE OF COVID-19**

If the suspected or confirmed case of COVID-19 is at work



**Isolate** 

Isolate the person from others and provide a disposable surgical mask, if available, for the person to wear.



Inform

Call (TBC). Follow the advice of health officials.



**Transport** 

Ensure the person has transport to their home or to a medical facility

Clean the area where the person was working and all places they have been.

evacuating those areas.

Use PPE when cleaning.

contact with the infected

person in the 24 hours

person started showing symptoms. Send those people home to isolate. Allow employees to raise

Clean the area where the person was working and all places they have

been. This may mean evacuating those areas. Use PPE when cleaning.

management controls relating to COVID-19 and review whether work

may need to change. Keep employees up to

date on what is happening.

before that infected

concerns.

Review risk

This may mean

Identify who at the

workplace had close



Clean



Identify



Clean



Review

If the suspected or confirmed case of COVID-19 is not at work when diagnosed



Inform

Call (TBC). Follow the advice of health officials.



Identify

Identify who at the workplace had close contact with the infected person in the 24 hours before that infected person started showing symptoms. Send those people home to isolate. Allow employees to raise



Clean

concerns. Clean the area where the person was working and all places they have been. This may mean evacuating those areas. Use PPE when cleaning.



Review risk management controls relating to COVID-19 and review whether work may need to change. Keep employees up to date on what is happening.



#### APPENDIX C: COVID-19 DAILY SYMPTOM MONITORING TOOL

# transport Department: Transport Province of KwaZulu-Natal

#### COVID-19 DAILY SYMPTOM MONITORING TOOL

Details of Worker						C	Details of Pers	on completin	g this form	Date com form	pleting	DD/MN	//YYYY	
Identifier	Date of contact	DD/MM/YYYY	Place last contact			Sur	name			Name				
Surname		Name				Role	e			Facility na	me			
Date of birth DD/N	IM/YYYY	Age (Y)	Sex	M 🗆 F 🗌		Eme	ail address			Telephon	e number			
Healthcare Y□N□	If yes, facili	ty name				Nex	xt of kin detai	Is						
Contact number(s)	Email							and		Next of number	Kin contact			
Physical address														
House number	5	treet				Sub	ourb			Town				
District		Province				Pati	ient traced	Y 🗆 N 🗀						
Details of confirmed COVID-	19 case (Complet	e only if Applic	able											
Details of <u>confirmed</u> COVID- Contact type <sup>1</sup> Close		e only if Applic Relationship	cable			Nar	me	Surr	name		Date o	of Birth DD/N	MM/YYYY	
	casual ☐ I	Relationship ons for comp	pletion; Ma	-		ent and "N'	" if not. If a	ny sympton	ns are prese		contact (In:	sert No) imi	mediately a	
Contact type <sup>1</sup> Close nstructions for complet	casual ☐ I	Relationship ons for comp	pletion; Ma	-		ent and "N'	" if not. If a	ny sympton	ns are prese		contact (In:	sert No) imi	mediately a	
Contact type <sup>1</sup> Close Instructions for completed in the complete in the control of the control o	ion: Instructions for the collection	Relationship ons for comp ction of a co	pletion; Ma ombined na:	sopharynge	al and orop	ent and "N' haryngeal :	" if not. If a swab. Refe	ny sympton r to COVID-	ns are prese 19 Quick G	uide on the	contact (In:	sert No) imi	mediately a tional detai	ls. Days p
Contact type <sup>1</sup> Close on instructions for complet inmediate arrangement kposure to case.	Casual	Relationship ons for comp ction of a co	pletion; Ma ombined na:	sopharynge	al and orop	ent and "N' haryngeal :	" if not. If a swab. Refe	ny sympton r to COVID-	ns are prese 19 Quick G	uide on the	contact (In:	sert No) imi	mediately a tional detai	ls. Days p
Contact type <sup>1</sup> Close [] instructions for complet inmediate arrangement xposure to case.  DAY  Date (DD/MM)	Casual	Relationship ons for comp ction of a co	pletion; Ma ombined na:	sopharynge	al and orop	ent and "N' haryngeal :	" if not. If a swab. Refe	ny sympton r to COVID-	ns are prese 19 Quick G	uide on the	contact (In:	sert No) imi	mediately a tional detai	ls. Days p
contact type <sup>1</sup> Close Instructions for completen mediate arrangement xposure to case.  DAY  Date (DD/MM)  Measured body temp	ion: Instructions for the collect	ens for comp ction of a co	pletion; Ma ombined na:	sopharynge 4	al and orop	ent and "N' haryngeal : 6	" if not. If a swab. Refe	ny sympton r to COVID- 8	ns are prese 19 Quick Gi	uide on the	contact (Ins NICD webs	sert No) imi ite for addi	mediately a tional detai	14
contact type <sup>1</sup> Close [] isstructions for complet immediate arrangement kposure to case.  DAY  Date (DD/MM)  Measured body temp Chills	ion: Instructions for the collections of the collec	Relationship ons for competion of a co	pletion; Ma ombined na:	4	5 □Y□N	ent and "N' charyngeal : 6	" if not. If a swab. Refe	ny sympton r to COVID- 8	ns are prese 19 Quick Gr	10 □Y□N	contact (In: NICD webs	sert No) imitie for addi	mediately a tional detai	14
contact type <sup>1</sup> Close Instructions for complete instructions for compl	casual   I	Relationship ons for comp tion of a co  2	pletion; Ma ombined na:	4  Y N  Y N	5 Y N	ent and "N' haryngeal:  6  Y N	" if not. If a swab. Refe	ny sympton r to COVID- 8	ns are prese 19 Quick Gi 9	10 Y N	contact (In: NICD webs  11  Y N	sert No) imi	nediately a tional detai	14
contact type <sup>1</sup> Close Distructions for complet mediate arrangement opposure to case.  DAY  Date (DD/MM)  Measured body temp  Chills  Sore throat	asual from Instruction for the collection of the collection for the co	elationship ons for competion of a co	pletion; Ma embined na:  3  Y N  Y N  Y N	4	5	ent and "N' sharyngeal: 6	7   Y   N   Y   N   Y   N	ny sympton r to COVID- 8	ns are prese 19 Quick Gi 9    Y   N   Y   N   Y   N	10	contact (In: NICD webs	sert No) imi	13  Y N  Y N  Y N	ls. Days p

Liose contact: A person having had face-to-face contact (22 metres) or was in a closed environment with a COVID-19 case; this includes, amongst others, all persons living in the same household as a COVID-19 case and, people working closely in the same environment as a case. A healthcare worker or other person providing direct care for a COVID-19 case, while not wearing recommended personal protective equipment or PPE (e.g., gowns, plowes, NIOSH-certified disposable N95 respirator, eye protection). A contact in an aircraft sitting within two seats (in any direction) of the COVID-19 case, travel companions or persons providing care, and crew members serving in the section of the aircraft where the index case was seated. Casual contact: Anyone not meeting the definition for a close contact but with possible exposure. <sup>2</sup> Chose from: Spouse, Aunt, Child, Class mate, Colleague, Cousin, Father, Friend, Grandfather, Grandfather, Healthcare worker taking care of, Mother, Nephew, Niece, Other relative, Uncle. <sup>3</sup> Diarrhoes a defined as three or more loose stools in a 24-hour period.

### APPENDIX D: COVID-19 BASELINE RISK ASSESSMENT

					1				Likelih	nood		
							Very Unlikely	Unlikely	Pos	sible	Likely	Very Likely
						Negligible	1	2	3	3	4	5
					<u> </u>	Minor	2 4		6		8	10
					Severity	Moderate	3	6	9		12	15
					Se	Major	4	8	1	2	16	20
						Extreme	5	10	15		20	25
Hazard	L	S	Risk	Control Measures			1		L S	RR	Persons	
Exposure from others due to:  1. Living with someone with a confirmed case of COVID-19.  2. Have come into close contact (within 2 metres for 15 minutes or more) with a confirmed case of COVID-19.  3. Being advised by a public health authority that contact with a diagnosed case has occurred.				<ul> <li>To follow government action of selfollowing circumstances: for medical for exercise once per day; and self-exercise once per day; and self-exercise once per day; and per day once once per day; and per day once once per day; and per day once once per day once once per day; and for exercise once per day; and for exerci</li></ul>	ments avel; stanci f mor nents e is r rable e issues sthey pack o not	on; to shop for notial works included as (disability, you deduce the amount of the following where possible than 2 unless at guidance the emergency. Do equired persons are should be to them no law are providing a tages to be left of work against virial.	ecessary for ing those of ung person urces (HR) are unt of time ble (2m cle it is immed to not attend ielding themater than 29 are medical reported to the doors tuses.	od supplies; leemed 'key as or new / and to follow using public arance from iate family) I GP surgery aselves and 0/3/2020 equirement step			Individual	
Suspected case whilst working on site				If a worker develops a high temperature should:	or a	a persistent cou	gh while a	t work, they			Individual	workers

									Lik	elihe	ood		
							Very Unlikely	Unlikely	Р	Possible		Likely	Very Likely
						Negligible	1	2	3			4	5
					₹.	Minor	2	4		6		8	10
					Severity	Moderate	3	6		9		12	15
					Se	Major	4	8		12	!	16	20
						Extreme	5	10		15		20	25
Hazard	L	S	Risk	Control Measures					L	S	RR	Persons a	at Risk
General travel including foreign travel				<ol> <li>Return home immediately</li> <li>Avoid touching anything</li> <li>Cough or sneeze into a tissue and cough and sneeze into the crook of</li> <li>They must then follow the guidance their period of self-isolation has beed</li> <li>Do not travel unless you cannot vimplement teleconferencing for meed</li> <li>Where an individual has recently visiolate themselves until further notic continue to apply)</li> <li>Please continue to follow any furthed</li> <li>Where an occupational health (OH) seek additional advice or concerns</li> <li>All persons to limit their use of public use private single occupancy where</li> </ol>	their each their each on sea o	elf-isolation and pleted.  om home or donese countries, in the government provider has better this service sport. Where tra	not return to eemed a kee they should nt (lockdow to advice pro-	ey worker – self / home n measures vided nted, please				Individual	workers
Access / egress to site				<ol> <li>Where possible, please consider and implease.</li> <li>Stop all non-essential visitors.</li> <li>Introduce staggered start and finish times.</li> <li>Monitor site access points to enable the number of access points, either enable monitoring.</li> <li>Remove or disable entry system scanners.</li> <li>Require all workers to wash or cleasite.</li> <li>Allow plenty of space (two metres).</li> </ol>	times socia increa s that an thei	to reduce congrete to reduce congrete to reduce congrete require skin or thands before	estion and county may nee ngestion or contact e.g. entering or	d to change decrease to fingerprint leaving the				Individual	workers

									Lik	elih	ood		
							Very Unlikely	Unlikely	P	ossi	ible	Likely	Very Likely
						Negligible	1	2		3		4	5
					ť	Minor	2	4		6		8	10
					everity	Moderate	3	6		9		12	15
					Se	Major	4	8		12	2	16	20
						Extreme	5	10		15	;	20	25
Hazard	L	S	Risk	Control Measures					L	S	RR	Persons a	at Risk
Inclement weather – cold temperature allows disease to survive				<ol> <li>Regularly clean common contact sur delivery areas e.g. scanners, turns particularly during peak flow times</li> <li>Reduce the number of people in a holding them outdoors wherever pos</li> <li>Drivers should remain in their vehic clean their hands before unloading g</li> <li>All persons to dress appropriately fo</li> <li>Welfare facilities provided to shelter</li> <li>Maintain good hygiene measures at</li> <li>Appropriate respiratory protective elast resort however face fit test (effectiveness. It is advised to spea matters and supplies should be redocumented that supplies have been</li> </ol>	etiles, ettend esible les if toods r the vertical time quipm FFT) k to yeserve	ance at site in the load will alloand materials.  veather he elements les ent (RPE) mas must be compour H&S comped for medical	hone hands aductions are bow it and m  ks to be cooleted to ere betent person	nd consider ust wash or usidered as asure mask on on these				Individual	workers
Poor hygiene				<ol> <li>Wash your hands thoroughly and reseconds. Use alcohol-based hand sa hand washing technique to be adopted.</li> <li>Avoid touching your face/eyes/nose/cough or sneeze with a tissue then to the spread out site or significant number and sufficient rubbinand disposal.</li> <li>Sites will need extra supplies of soar should be securely stored.</li> </ol>	anitise ed as mouth hrow i cilities as of p cilities sh bin	or if soap and wardirected in with unwashed tin the bin. to the usual we ersonnel on sites and check soas for hand tower.	ater is not and hands and elfare facilities ap and sanitels with regular	vailable and d cover your es if a large iser levels ular removal				Individual	workers

					1				Lik	Likelihood					
							Very Unlikely	Unlikely	F	ossi	ble	Likely	Very Likely		
						Negligible	1	2		3		4	5		
					<u>i</u>	Minor	2	4		6		8	10		
					Severity	Moderate	3	6		9		12	15		
					Se	Major	4	8		12	!	16	20		
						Extreme	5	10		15		20	25		
Hazard	L	S	Risk	Control Measures					L	S	RR	Persons a	at Risk		
Canteen - exposure from large numbers of				welfare attendant. Wash hands before cleaning regimes for toilet facilities flush. Portable toilets should be as these should be cleaned and emption.  The workforce should also be required and not use local shops.	oarticu oided ed moi	llarly door hand wherever poss re frequently.	les, locks a sible, but w	nd the toilet here in use				Individual	Workers		
persons				<ol> <li>Dedicated eating areas should be contamination</li> <li>Break times should be staggered to</li> <li>Hand cleaning facilities or hand sar any room where people eat and sh leaving the area</li> <li>The workforce should be asked to br bottles from home</li> <li>Workers should sit 2 metres apart contact</li> <li>Where catering is provided on site, food only - Payments should be take Crockery, eating utensils, cups etc.</li> <li>Drinking water should be provided mechanism introduced</li> <li>Tables should be cleaned between</li> <li>All rubbish should be put straight in up</li> <li>All areas used for eating must be t and shift, including chairs, door hand</li> </ol>	reductive reduction in the second sec	e congestion an should be avail be used by work e-prepared mea each other while uld provide precontactless card in not be used inhanced cleanings and not left for ghly cleaned at	ad contact a able at the ters when each straining and refillation and refillation at the end of the end of	t all times entrance of entering and able drinking and avoid all and wrapped possible and as of the tap else to clear each break							

								Likelihood						
			Very Unlikely	Unlikely	Possible		ble	Likely	Very Likely					
						Negligible	1	2	3			4	5	
						Minor	2	4	6			8	10	
					everity	Moderate	3	6	9			12	15	
						Major	4	8	12			16	20	
			Extreme	5	10	15		;	20	25				
Hazard	L	S	Risk	Control Measures L S RR I									Persons at Risk	
Use of Changing facilities, showers and drying rooms				<ol> <li>Introduce staggered start and finish times to reduce congestion and contact at all times</li> <li>Introduce enhanced cleaning of all facilities throughout the day and at the end of each day</li> <li>Consider increasing the number or size of facilities available on site if possible</li> <li>Based on the size of each facility, determine how many people can use it at any one time to maintain a distance of two metres</li> <li>Provide suitable and sufficient rubbish bins in these areas with regular removal and disposal.</li> </ol>										