

# DIPALESENG LOCAL MUNICIPALITY



## CONSTRUCTION OF SEWER RETICULATION AND TOILET TOP STRUCTURES IN SIYATHEMBA EXT 5 & 6

BID NO.: DLM 09/2017

## TENDER DOCUMENT

<b>Employer:</b>  <b>DIPALESENG LOCAL MUNICIPALITY</b> Private Bag X1005 Balfour, 2410  Telephone: 017 773 0055 Fax: 017 773 0169  Contact: Mr. Ishmael Mafolo Email: mafoloi@dipaleseng.com	<b>Consulting Engineer:</b>  <b>NKP CONSULTING ENGINEERS (Pty) Ltd</b> P.O Box 11 Nelspruit, 1200  Telephone: 013 492 0492 Fax: 086 554 6578  Contact: Mr. Keagan Smith e-mail: info@nkpsa.co.za
<b>Tenderer:</b> .....	
<b>CIDB Registration Number:</b> .....	
<b>Total of the prices inclusive of value added tax: R</b> .....	
<b>Amount in words:</b> .....	
<b>B-BBEE level of contribution:</b> .....	
<b>Contact No:</b> .....	
<b>CSD Registration Number:</b> .....	

# DIPALESENG LOCAL MUNICIPALITY

## CONSTRUCTION OF SEWER RETICULATION AND TOILET TOP STRUCTURES IN SIYATHEMBA EXT 5 & 6

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# DIPALESENG LOCAL MUNICIPALITY



## CONSTRUCTION OF SEWER RETICULATION AND TOILET TOP STRUCTURES IN SIYATHEMBA EXT 5 & 6

### *T1.1 Tender Notice and Invitation to Tender*

Dipaleseng Local Municipality invites tenders for the **Construction of Sewer Reticulation and Top Structures in Siyathemba Extension 5 and 6**

It is estimated that tenders should have a CIDB contractor grading of 4CEPE or higher. In the cases of a Joint Venture every member of the Joint Venture should be registered with the CIDB and the lead partner should have a Contractor grading designation in the **CE** class of construction work and the combined Contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a **4CEPE** class of construction work or a value determined in accordance with Regulation 25 (1B) of 25 (7A) of the Construction Industry Development Regulations.

**A Compulsory briefing and Site Inspection meeting with the representatives of the Employer will be held on the 27<sup>th</sup> March 2018 at Siyathemba Thusong Centre at 11:00.**

Tender documents for the above project will be downloaded free on eTenders, [www.dipaleseng.gov.za](http://www.dipaleseng.gov.za) or bid documents will be obtainable from **23<sup>rd</sup> March 2018**, on payment of cash non-refundable document fee of R250.00 per document from the offices of Dipaleseng Local Municipality, Cnr Johnny Makoena Drive and Themba Shozi Street, Balfour, Tel No (017) 773 0055 or Fax (017) 773 0169. Bid documents are available per arrangement from 08:00 to 15:00 (Monday to Thursday) and 08:00 to 12:00 (Friday).

Tenders are to be completed in black ink and completed in accordance with the conditions and rules contained in the tender documents. The tenders and relevant documents must be sealed in an envelope and externally endorsed with the **BID NO.: DIPALESENG LOCAL MUNICIPALITY: CONSTRUCTION OF SEWER RETICULATION AND TOP STRUCTURES IN SIYATHEMBA EXTENSIONS 5 AND 6** and be deposited in the Tender Box, situated at Cnr Johnny Makoena Drive and Themba Shozi Street, Balfour, Dipaleseng Local Municipality, Mpumalanga not later than **12:00 on 5<sup>th</sup> April 2018**. The tenders will immediately be opened in public. **The Tenders shall remain valid for a period of 90 days from the closing date.**

Tender

Part T1.1: Tender Notice

Contract No. DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

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T1.1  
Tender Notice

Tenders will be evaluated in terms of the Supply Chain Management policy of the Dipaleseng Local Municipality. The lowest or any tender will not necessarily be accepted and suitably the Dipaleseng Local Municipality reserves the right not to consider any tender **not suitably endorsed or comprehensively completed**, as well as the right to accept the tender in whole or part.

Technical queries may be directed to Mr. K.C Smith of NKP Consulting Engineers (Pty) Ltd at 013 492 0492 and administration queries to Mr. Ishmael Mafolo from the Dipaleseng Local Municipality at 017 773 0055



Ms T.C Mametja

Acting Municipal Manager:  
Dipaleseng Local Municipality  
Private Bag X1005  
Balfour  
2410





Address all correspondence to the Municipal Manager

## *Dipaleseng Municipality*

Private Bag X 1005  
Balfour, 2410  
Tel: (017) 773-0055  
Fax: (017) 773-0169  
Email: dipaleseng@worldonline.co.za

### **Very Important Notice on Disqualifications:**

A Tender not complying with the peremptory requirements stated hereunder will be regarded as not being an "Acceptable Tender", and as such will be rejected.

"Acceptable Tender" means any Tender which, in all respects, complies with the conditions of Dipaleseng Local Municipality and specifications as set out in the Tender documents, including conditions as specified in the Preferential Procurement Policy Framework Act (Act 5 of 2000) and related legislation as published in Government Gazette number 22549, dated 10 August 2001, in terms of which provision is made for this policy.

A Tender will be rejected in the following cases:

1. If any pages have been removed from the Tender document, and have therefore not been submitted, or a copy of the original Tender document has been submitted.
2. If scratching out, writing over or painted out rates appears without initialing next to the amended rates or information, affecting the evaluation of the Tender.
3. If correction fluid (i.e. tippex) or any erasable ink, or pencil was used.
4. If the Tenderers did not attend the compulsory Information/Clarification/briefing session/ meeting
5. If no authority for signatory is submitted – See example, where it is stated that a duly signed and dated original or certified copy of the company's relevant resolution (for each specific Tender) of their members or their board of directors, must be submitted.
6. If the tenderer is not registered with the Construction Industry Development Board in an appropriate contractor grading **designation of 4CE or Higher**
7. If the Tenderers attempts to influence, or has in fact influenced the evaluation and/or awarding of the contract
8. If the Tender was submitted after the relevant closing date and time.
9. If each page of this Tender document was not initialed by the authorised person and a witness, prior to submission.

10. If any Tenderers who during the last five years has failed to perform satisfactorily on a previous contract with the municipality, municipal entity or any other organ of state after written notice was given to that Tenderers that performance was unsatisfactory.
11. If proof of membership of Professional Organisation has not been attached to the Tender document.
12. If the Tenderer or any of his/her directors is listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector.
13. If the Tenderer(s) have abused the Dipaleseng Local Municipality's Supply Chain Management System.
14. Failure to attach a copy of a valid signed Joint Venture agreement (if applicable) to the Tender document.  
If the tender document is not completed in full(For all pages not applicable, a line must be drawn over and written **Not Applicable**)
15. If the tender document is not completed in black ink.
16. If certified copies of company registrations are not attached
17. If Municipal account is not attached and is in arrears.
18. Registration with the Central Supplier Database at [www.csd.gov.za](http://www.csd.gov.za)

# DIPALESANG LOCAL MUNICIPALITY

## CONSTRUCTION OF SEWER RETICULATION AND TOILET TOP STRUCTURES IN SIYATHEMBA EXT 5 & 6

### T1.2 Tender Data

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

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

#### The additional conditions of tender are:

Clause number	Tender Data for PROJECT NUMBER: DLM 09/2017
F.1.1	<b>The employer: The DIPALESANG LOCAL MUNICIPALITY</b>
F.1.2	The tender documents issued by the employer comprises: T1.1 Tender notice and invitation to tender T1.2 Tender data T2.1 List of returnable documents T2.2 Returnable schedules <b>Part 1: Agreements and contract data</b> C1.1 Form of offer and acceptance C1.2 Contract data C1.3 Form of Guarantee C1.4 Adjudicator's appointment <b>Part 2: Pricing data</b> C2.1 Pricing instructions C2.2 Bills of Quantities / Schedule of Rates <b>Part 3: Scope of work</b> C3 Scope of work <b>Part 4: Site information</b> C4 Site information
F.1.4	The employer's agent is:  Name: <b>NKP Consulting Engineers (Pty) Ltd.</b> Address: <b>P O Box 11, Nelspruit, 1200</b> Tel: <b>(013) 492 0492</b> Cell: <b>(082) 906 5967</b> Fax: <b>(086) 554 6578</b> E-mail: <a href="mailto:info@nkpsa.co.za">info@nkpsa.co.za</a>
F.2.1	Only those tenderers who are registered with the CIDB, or are capable of being registered prior to the evaluation of submissions, in a contractor grading designation equal to a contractor grading designation determined in accordance with the sum tendered for <b>Grade 5 (upper limit of tender value of R6,500,000.00) Civil Engineering (CE)</b> class of construction work, are eligible to submit tenders.  Joint ventures are eligible to submit tenders provided that: 1. every member of the joint venture is registered with the CIDB; 2. the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a <b>(CE) Civil Engineering</b> class of construction work.

Tender

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T1.2

Part T1.2: Tender Data

Tender Data

Contract No. DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

- F.2.7 A compulsory site inspection with representatives of the Employer will take place on **27<sup>th</sup> March 2017 at 11h00 at the Dipaleseng Local Municipality, Council Chambers**. An attendance register will be circulated during the site meeting. Addenda will be issued to and tenders will be received only from those tendering entities appearing on the attendance list.
- F.2.12 No alternative tender offers will be considered
- F.2.13.3 Parts of each tender offer communicated on paper shall be submitted as one original (i.e. no copies should be submitted).
- F.2.13.5 The employer's address for delivery of tender offers and identification details to be shown on each tender offer package are:  
F2.15.1
- Location of tender box: Physical address:**
- Dipaleseng Local Municipality, Cnr Johnny Makoena Drive and Themba Shozi Street, Balfour
- Identification details:**
- Bid No:** DLM 09/2017  
**Title:** CONSTRUCTION OF SEWER RETICULATION AND TOP STRUCTURES IN SIYATHEMBA EXTENSIONS 5 AND 6
- Closing date:** 5<sup>th</sup> April 2017  
**Closing time:** 12h00
- F.2.13 A two-envelope procedure will not be followed.
- F.2.15 The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.
- F.2.15 Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.
- F.2.16 The tender offer validity period is 90 days.
- F.2.18 The tenderer is to submit the priced schedule of rates and return the priced schedule with the tender.
- F.2.23 The tenderer is required to submit with his tender a Certificate of Contractor Registration issued by the Construction Industry Development Board and an **original valid** Tax Clearance Certificate issued by the South African Revenue Services.  
Where a tenderer tenders through joint venture formation, such tenderers should include a notarized joint venture agreement duly signed by each partner.
- F.3.4 Tenders will be opened immediately after the closing time for tenders at 12h00.

**EVALUATION CRITERIA**

Tenders will be firstly evaluated on functionality with elimination and then further evaluated on the **80/20** B-BBEE point system.

A tenderer who scores less than **70%** (70/100) of the maximum points on the functionality section will not be considered for further evaluation. Tenders will be evaluated on the following criteria:

**4.1 Functionality**

The functionality will be scored using the following values:

A maximum equal to **100 evaluation points will be awarded for functionality**, for the elimination purposes.

A tenderer who scores **less than 70%** (70/100) of the maximum points on the **functionality section** will **not** be considered for further evaluation

The functionality will be scored using the following criteria;

**Experience on Similar Scale Projects completed in the last 5 years:**

**40 Points** – Points will be allocated as follows;

10 Points for the completion of one (1) project of similar scope (Waterborne Sanitation R3m minimum)

20 Points for the completion of two (2) projects of similar scope (Waterborne Sanitation R3m minimum)

30 Points for the completion of two (2) project of similar scope (Waterborne Sanitation R3m & R5m minimum respectively)

40 Points for the completion of two (2) projects of similar scope (Waterborne Sanitation R5m minimum)

**NOTE: Waterborne Sanitation: Sewer network, top structures and stand connections**

**NOTE: Attach letter of reference similar project (original or certified copies from previous client)**

**Qualification and Competence of Key Staff:**

**20 Points** – Points are allocated for the required competencies and qualification of allocated personnel for project ion consideration (proof of qualifications must be attached)

5 (25%) Combination of any 1 key staff (Site agent, Foreman, Artisan, Safety Officer)

10 (50%) Combination of any 2 key staff (Site agent, Foreman, Artisan, Safety Officer)

15 (75%) Combination of any 3 key staff (Site agent, Foreman, Artisan, Safety Officer)

20 (100%) Combination of any 4 key staff (Site agent, Foreman, Artisan, Safety Officer)

**Key Staff**

Site Agent – National Diploma in Civil Engineering with at least 3 years experience in similar project or 10 years relevant experience in water reticulation projects.

Site Forman – 10 years experience

Artisan – Trade Certificate (Plumber) – with at least 5 years experience

Safety Officer– Safety officer with First Aid plus SAMTRAC

**NOTE: Please attach CV's**

**Availability of Plant and Equipment:**

**25 Points** – Points are allocated for the availability of key required plant and equipment for the project in consideration (proof of ownership must be attached)

12.5 (50%) – Any 2 of the Basic equipment

20 (80%) - Any 2 of basic + above basic equipment

25 (100%) – Combination of all basic + above basic equipment

**Basic**

TLB, 2 x Rammers or walk behind roller, 6m<sup>3</sup> tipper truck and 8-ton flatbed truck

**Above Basic**

Excavator and flatbed truck with hoist

**NOTE: For hired plant and equipment half of the above points will be allocated**



F3.11 contd **Financial Performance:**

**10 Points** – Points are allocated for the cash flow management demonstrated by the tenderer from bank rating.

Rating C = **10 points**

Rating D = **6 points**

Rating E = **4 points**

Rating F = **0 points**

**NO SUBMISSION = 0 POINTS**

**NB: A bidder must score a minimum of 70 points to qualify for the next round of the evaluation (to be considered for pricing and preference points). If the bidder receives any points less than 70, he will be disqualified.**

<b>FUNCTIONALITY COMPARISON</b>				
<b>Functionality criteria</b>	<b>Sub criteria</b>			<b>Maximum number of points</b>
Qualification and Competence of Key Staff	Proof of qualifications and CV's must be attached or submitted	Site Agent – National Diploma in Civil Engineering with at least 3 years experience in similar project or 10 years relevant experience in water reticulation projects	5	<b>20</b>
		Site Forman – 10 years experience	5	
		Artisan – Trade Certificate (Plumber) – with at least 5 years experience	5	
		Safety Officer– Safety officer with First Aid plus SAMTRAC	5	
Availability of Plant and Equipment	Proof of ownership must be attached or submitted  NB: Half the points will be allocated for hired plant	Any two of (TLB, 2 x Rammers or Bomacs, Tipper truck, 8-ton Flatbed truck)	12.5 for any 2 listed	<b>25</b>
		Excavator and flatbed truck with hoist plus any 2 of basic above	20	
		Combination of all of the basic and above basic	25	
Financial Performance	Bank rating supplied by bank	Rating of C	10	<b>15</b>
		Rating of D	6	
		Rating of E	4	
		Rating of F	0	
Experience on Similar Scale Projects	Attach letter of reference or completion certificates as proof	Completion of 1 waterborne sanitation project to the value of R3m	10	<b>40</b>
		Completion of 2 waterborne sanitation project to the value of R3m	20	
		Completion of 2 waterborne projects; one project of R3m and one of R5m	30	
		Completion of 2 waterborne projects; of R5m	40	
Maximum possible score for functionality				<b>100</b>

#### 4.2 The 80/20 preferential point system based on B-BBEE status level of contributor

B-BBEE status level of contributor: 80/20 Preference point system

B-BBEE STATUS LEVEL OF CONTRIBUTOR	NUMBER OF POINTS
1	20
2	18
3	16
4	12
5	8
6	6
7	4
8	2
Non-compliant contributor	0

A maximum equal to **80 tender evaluation points** will be awarded for **Financial Offer / Price**

#### NOTE:

- a) **Tenderers are to submit a valid B-BBEE status level verification certificates in order to score points as set out in the table above, should tenderers fail to submit verification certificates no (0) points will be scored.**
- b) Should it be discovered that false information has been provided the tender (offer) shall be invalidated

#### F3.13.1

Tender offers will only be accepted if:

- a) the tenderer has in his or her possession an original valid Tax Clearance Certificate issued by the South African Revenue Services or has made arrangements to meet outstanding tax obligations;
- b) the tenderer is registered with the Construction Industry Development Board in an appropriate contractor grading designation;
- c) the tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;
- d) the tenderer has not:
  - i) abused the Employer's Supply Chain Management System; or
  - ii) failed to perform on any previous contract and has been given a written notice to this effect; and
- e) has completed the Compulsory Supplier Questionnaire - Contractors and there are no conflicts of interest which may impact on the tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process.

#### F.3.18

The number of paper copies of the signed contract to be provided by the employer is one.

## Annex: Standard Conditions of Tender

*(As contained in ADDENDUM F of the CIDB Standard for Uniformity in Construction Procurement)*

### F.1 General

#### F.1.1 Actions

The employer and each tenderer submitting a tender offer shall comply with these conditions of tender. In their dealings with each other, they shall discharge their duties and obligations as set out in F.2 and F.3, timeously and with integrity, and behave equitably, honestly and transparently.

#### F.1.2 Tender Documents

The documents issued by the employer for the purpose of a tender offer are listed in the tender data.

#### F.1.3 Interpretation

**F.1.3.1** The tender data and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these conditions of tender.

**F.1.3.2** These conditions of tender, the tender data and tender schedules which are only required for tender evaluation purposes, shall not form part of any contract arising from the invitation to tender.

**F.1.3.3** For the purposes of these conditions for the calling for expressions of interest, the following definitions apply:

- a) **comparative offer** means the tenderer's financial offer after the factors of non-firm prices, all unconditional discounts and any other tendered parameters that will affect the value of the financial offer have been taken into consideration
- b) **corrupt practice** means the offering, giving, receiving or soliciting of anything of value to influence the action of the employer or his staff or agents in the tender process; and
- c) **fraudulent practice** means the misrepresentation of the facts in order to influence the tender process or the award of a contract arising from a tender offer to the detriment of the employer, including collusive practices intended to establish prices at artificial levels
- d) **quality (functionality)** means the totality of features and characteristics of a product or service that bear on its ability to satisfy stated or implied needs

#### F.1.4 Communication and employer's agent

Each communication between the employer and a tenderer shall be to or from the employer's agent only, and in a form that can be read, copied and recorded. Writing shall be in the English language. The employer shall not take any responsibility for non-receipt of communications from or by a tenderer. The name and contact details of the employer's agent are stated in the tender data.

#### F.1.5 The employer's right to accept or reject any tender offer

**F.1.5.1** The employer may accept or reject any variation, deviation, tender offer, or alternative tender offer, and may cancel the tender process and reject all tender offers at any time before the formation of a contract. The employer shall not accept or incur any liability to a tenderer for such cancellation and rejection, but will give written reasons for such action upon written request to do so.

**F.1.5.2** The employer may not subsequent to the cancellation or abandonment of a tender process or the rejection of all responsive tender offers re-issue a tender covering substantially the same scope of work within a period of six months unless only one tender was received and such tender was returned unopened to the tenderer.

## **F.2 Tenderer's obligations**

### **F.2.1 Eligibility**

Submit a tender offer only if the tenderer complies with the criteria stated in the tender data and the tenderer, or any of his principals, is not under any restriction to do business with employer.

### **F.2.2 Cost of tendering**

Accept that the employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer satisfy requirements.

### **F.2.3 Check documents**

Check the tender documents on receipt for completeness and notify the employer of any discrepancy or omission.

### **F.2.4 Confidentiality and copyright of documents**

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

### **F.2.5 Reference documents**

Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the tender documents by reference.

### **F.2.6 Acknowledge addenda**

Acknowledge receipt of addenda to the tender documents, which the employer may issue, and if necessary apply for an extension to the closing time stated in the tender data, in order to take the addenda into account.

### **F.2.7 Clarification meeting**

Attend, where required, a clarification meeting at which tenderers may familiarize themselves with aspects of the proposed work, services or supply and raise questions. Details of the meeting(s) are stated in the tender data.

### **F.2.8 Seek clarification**

Request clarification of the tender documents, if necessary, by notifying the employer at least five working days before the closing time stated in the tender data.

### **F.2.9 Insurance**

Be aware that the extent of insurance to be provided by the employer (if any) may not be for the full cover required in terms of the conditions of contract identified in the contract data. The tenderer is advised to seek qualified advice regarding insurance.

### **F.2.10 Pricing the tender offer**

**F.2.10.1** Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes (except Value Added Tax (VAT)), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable 14 days before the closing time stated in the tender data.

**F.2.10.2** Show VAT payable by the employer separately as an addition to the tendered total of the prices.

**F.2.10.3** Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as provided for in the conditions of contract identified in the contract data.

**F.2.10.4** State the rates and prices in Rand unless instructed otherwise in the tender data. The conditions of contract identified in the contract data may provide for part payment in other currencies.

**F.2.11 Alterations to documents**

Not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations. Erasures and the use of masking fluid are prohibited.

**F.2.12 Alternative tender offers**

**F.2.12.1** Submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted. The alternative tender offer is to be submitted with the main tender offer together with a schedule that compares the requirements of the tender documents with the alternative requirements the tenderer proposes.

**F.2.12.2** Accept that an alternative tender offer may be based only on the criteria stated in the tender data or criteria otherwise acceptable to the employer.

**F.2.13 Submitting a tender offer**

**F.2.13.1** Submit a tender offer to provide the whole of the works, services or supplies identified in the contract data and described in the scope of works, unless stated otherwise in the tender data.

**F.2.13.2** Return all returnable documents to the employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing in black ink.

**F.2.13.3** Submit the parts of the tender offer communicated on paper as an original stated in the tender data, with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the employer.

**F.2.13.4** Sign the original of the tender offer where required in terms of the tender data. The employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner whom the employer shall hold liable for the purpose of the tender offer.

**F.2.13.5** Seal the original of the tender offer, marking the package "ORIGINAL". The outside of the envelope should state the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.

**F.2.13.6** Where a two-envelope system is required in terms of the tender data, place and seal the returnable documents listed in the tender data in an envelope marked "financial proposal" and place the remaining returnable documents in an envelope marked "technical proposal". Each envelope shall state on the outside the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.

**F.2.13.7** Seal the original tender offer and copy packages together in an outer package that states on the outside only the employer's address and identification details as stated in the tender data.

**F.2.13.8** Accept that the employer shall not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.

**F.2.14 Information and data to be completed in all respects**

Accept that tender offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the employer as non-responsive.



#### **F.2.15 Closing time**

**F.2.15.1** Ensure that the employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Proof of posting shall not be accepted as proof of delivery. The employer shall not accept tender offers submitted by telegraph, telex, facsimile or e-mail, unless stated otherwise in the tender data.

**F.2.15.2** Accept that, if the employer extends the closing time stated in the tender data for any reason, the requirements of these conditions of tender apply equally to the extended deadline.

#### **F.2.16 Tender offer validity**

**F.2.16.1** Hold the tender offer(s) valid for acceptance by the employer at any time during the validity period stated in the tender data after the closing time stated in the tender data.

**F.2.16.2** If requested by the employer, consider extending the validity period stated in the tender data for an agreed additional period.

#### **F.2.17 Clarification of tender offer after submission**

Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the total of the prices or substance of the tender offer is sought, offered, or permitted. The total of the prices stated by the tenderer shall be binding upon the tenderer.

**Note:** Sub-clause F.2.17 does not preclude the negotiation of the final terms of the contract with a preferred tenderer following a competitive selection process, should the Employer elect to do so.

#### **F.2.18 Provide other material**

**F.2.18.1** Provide, on request by the employer, any other material that has a bearing on the tender offer, the tenderer's commercial position (including notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment. Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the employer's request, the employer may regard the tender offer as non-responsive.

**F.2.18.2** Dispose of samples of materials provided for evaluation by the employer, where required.

#### **F.2.19 Inspections, tests and analysis**

Provide access during working hours to premises for inspections, tests and analysis as provided for in the tender data.

#### **F.2.20 Submit securities, bonds, policies, etc.**

If requested, submit for the employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the contract data.

#### **F.2.21 Check final draft**

Check the final draft of the contract provided by the employer within the time available for the employer to issue the contract.

#### **F.2.22 Return of other tender documents**

If so instructed by the employer, return all retained tender documents within 28 days after the expiry of the validity period stated in the tender data.

#### **F.2.23 Certificates**

Include in the tender submission or provide the employer with any certificates as stated in the tender data.

### **F.3 The employer's undertakings**

#### **F.3.1 Respond to clarification**

Respond to a request for clarification received up to five working days prior to the tender closing time stated in the Tender Data and notify all tenderers who drew procurement documents.

#### **F.3.2 Issue Addenda**

If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date of the Tender Notice until seven days before the tender closing time stated in the Tender Data. If, as a result a tenderer applies for an extension to the closing time stated in the Tender Data, the Employer may grant such extension and, will then notify it to all tenderers who drew documents.

#### **F.3.3 Return late tender offers**

Return tender offers received after the closing time stated in the Tender Data, unopened, (unless it is necessary to open a tender submission to obtain a forwarding address), to the tenderer concerned.

#### **F.3.4 Opening of tender submissions**

**F.3.4.1** Unless the two-envelope system is to be followed, open valid tender submissions in the presence of tenderers' agents who choose to attend at the time and place stated in the tender data. Tender submissions for which acceptable reasons for withdrawal have been submitted will not be opened.

**F.3.4.2** Announce at the opening held immediately after the opening of tender submissions, at a venue indicated in the tender data, the name of each tenderer whose tender offer is opened, the total of his prices, preferences claimed and time for completion, if any, for the main tender offer only.

**F.3.4.3** Make available the record outlined in F.3.4.2 to all interested persons upon request.

#### **F.3.5 Two-envelope system**

**F.3.5.1** Where stated in the tender data that a two-envelope system is to be followed, open only the technical proposal of valid tenders in the presence of tenderers' agents who choose to attend at the time and place stated in the tender data and announce the name of each tenderer whose technical proposal is opened.

**F.3.5.2** Evaluate the quality of the technical proposals offered by tenderers, then advice tenderers who remain in contention for the award of the contract of the time and place when the financial proposals will be opened. Open only the financial proposals of tenderers, who score in the quality evaluation above the minimum number of points for quality stated in the tender data, and announce the score obtained for the technical proposals and the total price and any preferences claimed. Return unopened financial proposals to tenderers whose technical proposals failed to achieve the minimum number of points for quality.

#### **F.3.6 Non-disclosure**

Not disclose to tenderers, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers, the final evaluation price and recommendations for the award of a contract, until after the award of the contract to the successful tenderer.

#### **F.3.7 Grounds for rejection and disqualification**

Determine whether there has been any effort by a tenderer to influence the processing of tender offers and instantly disqualify a tenderer (and his tender offer) if it is established that he engaged in corrupt or fraudulent practices.

#### **F.3.8 Test for responsiveness**

Determine, on opening and before detailed evaluation, whether each tender offer properly received:

- a) meets the requirements of these Conditions of Tender,
- b) has been properly and fully completed and signed, and
- c) is responsive to the other requirements of the tender documents.

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**Part T1.2: Tender Data**

**T1.2  
Tender Data**

Contract No. DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the Employer's opinion, would:

- detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work,
- change the Employer's or the tenderer's risks and responsibilities under the contract, or
- affect the competitive position of other tenderers presenting responsive tenders, if it were to be rectified.

Reject a non-responsive tender offer, and not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.

**F.3.9 Arithmetical errors**

Check responsive tender offers for arithmetical errors, correcting them in the following manner:

- Where there is a discrepancy between the amounts in figures and in words, the amount in words shall govern.
- If a bill of quantities (or schedule of rates) apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as quoted shall govern, and the unit rate will be corrected.
- Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates if a bills of quantities applies) to achieve the tendered total of the prices.

Consider the rejection of a tender offer if the tenderer does not correct or accept the correction of his arithmetical errors in the manner described above.

**F.3.10 Clarification of a tender offer**

Obtain clarification from a tenderer on any matter that could give rise to ambiguity in a contract arising from the tender offer.

**F.3.11 Evaluation of tender offers**

**F3.11.1 General**

Appoint an evaluation panel of not less than three persons. Reduce each responsive tender offer to a comparative offer and evaluate it using the tender evaluation method that is indicated in the Tender Data and described below in method 4:

Method 1: Financial offer	1) Rank tender offers from the most favourable to the least favourable comparative offer. 2) Recommend highest ranked tenderer for the award of the contract, unless there are compelling and justifiable reasons not to do so.
Method 2: Financial offer and preferences	1) Score tender evaluation points for financial offer. 2) Confirm that tenderers are eligible for the preferences claimed and if so, score tender evaluation points for preferencing. 3) Calculate total tender evaluation points. 4) Rank tender offers from the highest number of tender evaluation points to the lowest. 5) Recommend tenderer with the highest number of tender evaluation points for the award of the contract, unless there are compelling and justifiable reasons not to do so.

Method 3: Financial offer and quality	<ol style="list-style-type: none"> <li>1) Score quality, rejecting all tender offers that fail to score the minimum number of points for quality stated in the Tender data.</li> <li>2) Score tender evaluation points for financial offer.</li> <li>3) Calculate total tender evaluation points.</li> <li>4) Rank tender offers from the highest number of tender evaluation points to the lowest.</li> <li>5) Recommend tenderer with the highest number of tender evaluation points for the award of the contract, unless there are compelling and justifiable reasons not to do so.</li> </ol>
Method 4: Financial offer, quality and preferences	<ol style="list-style-type: none"> <li>1) Score quality, rejecting all tender offers that fail to score the minimum number of points for quality stated in the Tender data.</li> <li>2) Score tender evaluation points for financial offer.</li> <li>3) Confirm that tenderers are eligible for the preferences claimed, and if so, score tender evaluation points for preferencing.</li> <li>4) Calculate total tender evaluation points.</li> <li>5) Rank tender offers from the highest number of tender evaluation points to the lowest.</li> <li>6) Recommend tenderer with the highest number of tender evaluation points for the award of the contract, unless there are compelling and justifiable reasons not to do so.</li> </ol>

Score financial offers, preferences and quality, as relevant, to two decimal places.

### F.3.11.2 Scoring Financial Offers

Score the financial offers of remaining responsive tender offers using the following formula:

- $N_{FO} = W_1 \times A$  where:  
 $N_{FO}$  = the number of tender evaluation points awarded for the financial offer.  
 $W_1$  = the maximum possible number of tender evaluation points awarded for the financial offer as stated in the Tender Data.  
 $A$  = a number calculated using either formulas 1 or 2 below as stated in the Tender Data.

Formula	Basis for comparison	Option 1	Option 2
1	Highest price or discount	$(1 + \frac{(P - P_m)}{P_m})$	$P/P_m$
2	Lowest price or percentage commission/fee	$(1 - \frac{(P - P_m)}{P_m})$	$P_m/P$

where:

- $P_m$  = the comparative offer of the most favourable tender offer.  
 $P$  = the comparative offer of tender offer under consideration.

### F.3.11.3 Scoring quality (functionality)

Score quality in each of the categories stated in the Tender Data and calculate total score for quality.

### F.3.12 Insurance provided by the employer

If requested by the proposed successful tenderer, submit for the tenderer's information the policies and / or certificates of insurance which the conditions of contract identified in the contract data, require the employer to provide.

### F.3.13 Acceptance of tender offer

**F.3.13.1** Accept tender offer only if the tenderer satisfies the legal requirements stated in the Tender Data.

**F.3.13.2** Notify the successful tenderer of the employer's acceptance of his tender offer by completing and returning one copy of the form of offer and acceptance before the expiry of the validity period stated in the tender data, or

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agreed additional period. Providing the form of offer and acceptance does not contain any qualifying statements, it will constitute the formation of a contract between the employer and the successful tenderer as described in the form of offer and acceptance.

#### **F.3.14 Notice to unsuccessful tenderers**

After the successful tenderer has acknowledged the employer's notice of acceptance, notify other tenderers that their tender offers have not been accepted.

#### **F.3.15. Prepare contract documents**

If necessary, revise documents that shall form part of the contract and that were issued by the employer as part of the tender documents to take account of:

- a) addenda issued during the tender period,
- b) inclusion of some of the returnable documents,
- c) other revisions agreed between the employer and the successful tenderer, and
- d) the schedule of deviations attached to the form of offer and acceptance, if any.

#### **F.3.16 Issue final contract**

Prepare and issue the final draft of contract documents to the successful tenderer for acceptance as soon as possible after the date of the employer's signing of the form of offer and acceptance (including the schedule of deviations, if any). Only those documents that the conditions of tender require the tenderer to submit, after acceptance by the employer, shall be included.

#### **F.3.17 Complete adjudicator's contract**

Unless alternative arrangements have been agreed or otherwise provided for in the contract, arrange for both parties to complete formalities for appointing the selected adjudicator at the same time as the main contract is signed.

#### **F.3.18 Provide copies of the contracts**

Provide to the successful tenderer the number of copies stated in the Tender Data of the signed copy of the contract as soon as possible after completion and signing of the form of offer and acceptance.



# DIPALESENG LOCAL MUNICIPALITY

## CONSTRUCTION OF SEWER RETICULATION AND TOILET TOP STRUCTURES IN SIYATHEMBA EXT 5 & 6

### T2.1 List of Returnable Documents

The tenderer must complete the following returnable documents:

**1. Returnable Schedules required only for tender evaluation purposes (certified copies or originals of the following documents):**

- Record of Addenda to Tender Documents
- A signed attendance register
- Compulsory Supplier Questionnaire – Contractors
- Certificate of Authority for Signature
- Schedule of Plant and Equipment
- Key Personnel (attach CV and Academic certificates)
- Preliminary Programme
- Proposed Amendments and Qualifications
- Joint Venture Agreement (in case of a JV)
- Identity documents of Owners / Directors / Members / Shareholders
- Certified copy of contractor Registration for Incorporation or of Company Registration Document
- Closed Corporations to attach an Association Agreement
- Shareholders' Agreements / Share Certificates / Memorandum of Association for companies
- Tenderer's Financial Standing (Bank Rating)
- Valid VAT Certificate (where applicable)
- An original valid Tax Clearance Certificate issued by the South African Revenue Services
- Copy of COIDA (Compensation for Occupational Injuries and Diseases) registration certificate, eg Letter of Good Standing
- Proof of residence in Mpumalanga, eg registration for regional levies, rates and taxes, electricity or water account, etc, if a preference is claimed for being registered in the Mpumalanga Province
- Proof of disability if preference claimed for disability equity ownership
- Contractor's Health and Safety Plan
- Declaration of interest

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

- Priced Bills of Quantities

**3. Returnable Schedules that will be incorporated into the contract**

- Preferencing Schedule (direct preferences) for the 80:20
- MBD Documents: MBD6.1, MBD 4 & MBD8

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

- None

**5. The offer portion of the C1.1 Offer and Acceptance**

**6. C1.2 Contract Data (Part 2)**

**Record of Addenda to tender documents**

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:		
	<b>Date</b>	<b>Title or Details</b>
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		

Attach additional pages if more space is required.

Signed

Date

Name

Position

Identity  
number

Tenderer

**CERTIFICATE OF ATTENDANCE AT COMPULSORY BRIEFING**

This is to certify that (*tenderer*) .....  
of (*address*) .....  
..... was represented by the person(s)  
named below at the compulsory briefing meeting held for all tenderers at (*location*) .....  
..... on (*date*)..... starting at (*time*) .....

I / We acknowledge that the purpose of the meeting was to acquaint myself / ourselves with the site of the works and / or matters incidental to doing the work specified in the tender documents in order for me / us to take account of everything necessary when compiling our rates and prices included in the tender.

**Particulars of person(s) attending the meeting:**

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

Capacity: ..... Identity number: .....

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

Capacity: ..... Identity number: .....

**Attendance of the above person(s) at the meeting is confirmed by the Employer's representative, namely:**

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

Capacity: ..... Date and Time: .....

**COMPULSORY ENTERPRISE QUESTIONNAIRE**

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

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

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

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

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

Name*	Identity number*	Personal income tax number*

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

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

Company registration number .....

Close corporation number .....

Tax reference number .....

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

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

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

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

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

\*insert separate page if necessary

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

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

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

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

\*insert separate page if necessary

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

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

Signed \_\_\_\_\_ Date \_\_\_\_\_  
 Name \_\_\_\_\_  
 Identity number \_\_\_\_\_ Position \_\_\_\_\_  
 Enterprise name \_\_\_\_\_



**CERTIFICATE OF AUTHORITY FOR SIGNATORY**

Indicate the status of the tenderer by ticking the appropriate box hereunder. The tenderer must complete the certificate set out below for the relevant category, **and attach their Registration Certificates for Companies, Close Corporations and Partnerships, or Agreements and Powers of Attorney for Joint Ventures, or ID documents to the page provided at the end of this form.**

(I) COMPANY	(II) CLOSE CORPORATION	(III) PARTNERSHIP	(IV) JOINT VENTURE	(V) SOLE PROPRIETOR

**(I) CERTIFICATE FOR COMPANY**

I, ....., Id number ..... chairperson of the Board of Directors of ..... hereby confirm that by resolution of the Board (copy attached) taken on ..... 20....., Mr/Ms .....acting in the capacity of ....., was authorised to sign all documents in connection with the tender for Contract No ..... and any contract resulting from it, on behalf of the company.

**Chairman:** .....

**As Witnesses:** 1. ....

2. .... **Date:** .....

**(II) CERTIFICATE FOR CLOSE CORPORATION**

We, the undersigned, being the key members in the business trading as ..... hereby authorise Mr/Ms ....., acting in the capacity of ....., to sign all documents in connection with the tender for Contract No ..... and any contract resulting from it, on our behalf.

NAME	ADDRESS	SIGNATURE	DATE
..... ID No.....	.....		
..... ID No.....	.....		
..... ID No.....	.....		
..... ID No.....	.....		

**Note : This certificate is to be completed and signed by all of the key members upon whom rests the direction of the affairs of the Close Corporation as a whole.**

**(III). CERTIFICATE FOR PARTNERSHIP**

We, the undersigned, being the key partners in the business trading as, .....  
 ..... hereby authorize Mr/Ms .....  
 acting in the capacity of ....., to sign all documents  
 in connection with the tender for Contract No ..... and any contract resulting from  
 it, on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

**Note :** *This certificate is to be completed and signed by all of the key partners upon whom rests the direction of the affairs of the Partnership as a whole.*

**(IV) CERTIFICATE FOR JOINT VENTURE**

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorize  
 Mr/Ms ....., authorized signatory of the company, acting in the capacity  
 of lead partner, to sign all documents in connection with the tender offer for Contract No ..... and any contract  
 resulting from it, on our behalf. We accept that, as parties to the Joint Venture, we are jointly and  
 severally responsible to the client.

This authorization is evidenced by the attached power of attorney signed by legally authorized signatories of all the partners to the Joint Venture.

NAME OF FIRM	ADDRESS	AUTHORISING SIGNATURE, NAME AND CAPACITY
Lead partner		

**Note :** *This certificate is to be completed and signed by all of the key partners upon whom rests the direction of the affairs of the Partnership as a whole.*

**(V) CERTIFICATE FOR SOLE PROPRIETOR**

I, ..... , hereby confirm that I am the sole owner of the business trading as .....

**Signature** of Sole owner: .....

As Witnesses:

1. ....

2. ....

Date: .....

**SCHEDULE OF PLANT AND EQUIPMENT**

The following are lists of major items of relevant equipment that I / we presently own or lease and will have available for this contract if my / our tender is accepted.

(a) Details of major equipment owned by me / us and immediately available for this contract.

DESCRIPTION ( <i>type, size, capacity etc</i> )	QUANTITY	YEAR OF MANUFACTURE

*Attach additional pages if more space is required*

(b) Details of major equipment that will be hired, or acquired for this contract if my / our tender is accepted

DESCRIPTION ( <i>type, size, capacity etc</i> )	QUANTITY	HOW ACQUIRED	
		HIRE/BUY	SOURCE

*Attach additional pages if more space is required*

The Tenderer undertakes to bring onto site without additional cost to the Employer any additional plant not listed but which may be necessary to complete the contract within the specified contract period.

***Failure to complete this form properly and correctly, will lead to the conclusion that the tenderer does not have the necessary plant and equipment resources at his disposal, which will prejudice his tender.***

SIGNATURE: ..... IDENTITY NUMBER: .....

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

DATE:.....



**EXPERIENCE OF TENDERER**

The following is a statement of work of similar nature recently successfully executed by myself / ourselves (at least 3 (three) TRACEABLE references required):

EMPLOYER: CONTACT PERSON AND TELEPHONE NUMBER	CONSULTING ENGINEER: CONTACT PERSON AND TELEPHONE NUMBER	NATURE OF WORK	VALUE OF WORK (inclusive of VAT)	DATE COMPLETED OR EXPECTED TO BE COMPLETED

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

**PROPOSED SUB-CONTRACTORS (MANDATORY) (See clauses A2 to A4 in the Contract Data)**

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

I/We confirm that all subcontractors who are contracted to construct a house or building are registered as home builders with the **Construction Industry Development Board**.

NAMES AND ADDRESSES OF PROPOSED SUB-CONTRACTORS	COMPANY REGISTRATION No AND CIDB CLASSIFICATION	DESCRIPTION OF WORK TO BE EXECUTED BY SUBCONTRACTOR

SIGNATURE: ..... IDENTITY NUMBER: .....

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

**KEY PERSONNEL**

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

The Tenderer shall list below the personnel which he intends to utilize on the Works, including key personnel which may have to be brought in from outside if not available locally.

CATEGORY OF EMPLOYEE	NUMBER OF PERSONS					
	KEY PERSONNEL, PART OF THE CONTRACTOR'S ORGANISATION		KEY PERSONNEL TO BE IMPORTED IF NOT AVAILABLE LOCALLY		UNSKILLED PERSONNEL TO BE RECRUITED FROM LOCAL COMMUNITY	
	HDI	NON-HDI	HDI	NON-HDI	HDI	NON-HDI
Site Agent, Project Managers						
Foremen, Quality Control and Safety Personnel						
Technicians, Surveyors, etc						
Artisans and other Skilled workers						
Plant Operators						
Others:..... ..... ..... .....						

The Tenderer shall attach hereto the *curricula vitae*, in the form included hereafter, of at least the site agent, the foreman, safety officer and the project manager. The information is necessary for evaluation of the tender.

SIGNATURE: ..... IDENTITY NUMBER: .....

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

DATE:.....





**CV FOR SITE AGENT**

<b>Name:</b>	<b>Date of birth:</b>
<b>Profession:</b>	<b>Nationality:</b>
<b>Qualifications:</b>	
<b>Professional Registration Number:</b>	
<b>Name of Employer (firm):</b>	
<b>Current position:</b>	<b>Years with firm:</b>
<b><u>Employment Record:</u></b>	
<b><u>Experience Record Pertinent to Required service:</u></b>	

**Certification:**

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....  
SIGNATURE OF THE INCUMBENT IN THE SCHEDULE

.....  
DATE

.....  
INCUMBENT'S IDENTITY NUMBER

**Tender**

**T2.2**

**Part T2: Returnable documents**

**Returnable Schedules**

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6





**CV FOR SAFETY OFFICER/MANAGER**

<b>Name:</b>	<b>Date of birth:</b>
<b>Profession:</b>	<b>Nationality:</b>
<b>Qualifications:</b>	
<b>Professional Registration Number:</b>	
<b>Name of Employer (firm):</b>	
<b>Current position:</b>	<b>Years with firm:</b>
<b><u>Employment Record:</u></b>	
<b><u>Experience Record Pertinent to Required service:</u></b>	

**Certification:**

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....  
SIGNATURE OF THE INCUMBENT IN THE SCHEDULE

.....  
DATE

.....  
INCUMBENT'S IDENTITY NUMBER

**AMENDMENTS, QUALIFICATIONS AND ALTERNATIVES**

*(This is not an invitation for amendments, deviations or alternatives but should the Tenderer desire to make any departures from the provisions of this contract he shall set out his proposals clearly hereunder. The Employer will not consider any amendment, alternative offers or discounts unless sections (a), (b) and (c) of this form have been completed to the satisfaction of the Employer).*

I / We herewith propose amendments, alternatives and discounts as set out in the tables below:

**(a) AMENDMENTS**

PAGE, CLAUSE OR ITEM NO	PROPOSED AMENDMENT

- [Notes: (1) Proposals for amendments to the General and Special Conditions of Contract are not acceptable, and will be ignored;  
 (2) The Tenderer must give full details of all the financial implications of the amendments and qualifications in a covering letter attached to his tender.*

**(b) ALTERNATIVES**

PROPOSED ALTERNATIVE	DESCRIPTION OF ALTERNATIVE

- [Notes: (1) Individual alternative items that do not justify an alternative tender, and an alternative offer for time for completion should be listed here.*

- (2) *In the case of a major alternative to any part of the work, a separate Bill of Quantities, programme, etc, and a detailed statement setting out the salient features of the proposed alternatives must accompany the tender.*
- (3) *Alternative tenders involving technical modifications to the design of the works and methods of construction shall be treated separately from the main tender offer.]*

**(c) DISCOUNTS**

ITEM ON WHICH DISCOUNT IS OFFERED	DESCRIPTION OF DISCOUNT OFFERED

***[Note: The Tenderer must give full details of the discounts offered in a covering letter attached to his tender, failing which, the offer of a discount may have to be disregarded. Only unconditional discounts will be considered]***

SIGNATURE: ..... IDENTITY NUMBER: .....

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

DATE:.....

## **JOINT VENTURE AGREEMENT BETWEEN PARTIES**

*Attached hereto is my / our duly signed, notarised Joint Venture Agreement. My / our failure to submit the agreement with my / our tender document will lead to the conclusion that the joint venture has not been formally formed and all parties were not involved in the tender process.*



**CONTRACTOR'S COPY OF REGISTRATION OF INCORPORATION OR COMPANY  
REGISTRATION DOCUMENTS**

*Attached hereto is a certified copy of my / our company registration of incorporation or company registration documents. My failure to submit the copy with my / our tender document will lead to the conclusion that I am / we are not registered as claimed.*

**TENDERER'S FINANCIAL STANDING**

In terms of Clause F.2.18.1 of the Contract-specific Tender Data the Tenderer shall provide information about his commercial position, which includes information necessary for the Employer to evaluate the Tenderer's financial standing.

To that end the Tenderer must provide with his tender a bank rating, certified by his banker, to the effect that he will be able to successfully complete the contract at the tendered amount within the specified time for completion.

Name of account holder : .....

Name of Bank : ..... Branch : .....

(i) Account number : .....  
Type of account : .....

Telephone number : ..... Facsimile number : .....

Name of contact person (*at bank*) : .....

***Failure to provide either the required certified bank rating with his tender, will lead to the conclusion that the Tenderer does not have the necessary financial resources at his disposal to complete the contract successfully within the specified time for completion.***

The Employer undertakes to treat the information thus obtained as confidential, strictly for the use of evaluation of the tender submitted by the Tenderer.

SIGNATURE: ..... IDENTITY NUMBER: .....

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

## **VALID VAT CERTIFICATE**

***Attached hereto is my / our certified copy of my / our VAT registration certificate. My / our failure to submit the certificate with my / our tender document will lead to the conclusion that my / our company is not registered for VAT.***

## **TAX CLEARANCE CERTIFICATE**

### **IMPORTANT NOTES:**

1. The following is an abstract from the Preferential Procurement Regulations 2001 promulgated with the Preferential Policy Framework Act No 5 of 2000:

#### **"Tax clearance certificate**

16. No contract may be awarded to a person who has failed to submit an original Tax Clearance Certificate from the South African Revenue Service ("SARS") certifying the taxes of that person to be in order or that suitable arrangements have been made with SARS."

2. The ST 5.1 form, Application for Tax Clearance Certificate (in respect of tenders), must be **completed by the tenderer in every detail and submitted to the Receiver of Revenue** where the tenderer is registered for income tax purposes. The Receiver of Revenue will then furnish the tenderer with a **Tax Clearance Certificate that will be valid for 6 months from date of issue, unless otherwise indicated on the certificate issued by SARS. This Tax Clearance Certificate must be submitted in the original as an integral part of the tender.**

Each party to a Consortium / Joint Venture / Sub-contractors must complete a separate Tax Clearance Certificate.

**Failure to submit an original and valid Tax Clearance Certificate will inevitably invalidate the tender.**

3. An **example** of the Application for Tax Clearance Certificate which Tenderers may use to apply for the Tax Clearance Certificate is included hereafter and is available at any Receiver's Office.



**TAX CLEARANCE CERTIFICATE**

*[Original Tax Clearance Certificate obtained from SARS to be inserted here]*

## COPY OF COIDA REGISTRATION CERTIFICATE

*Attached hereto is my / our certified copy of registration certificate with the Compensation for Occupational Injuries and Diseases, eg letter of good standing. My / our failure to submit the certificate with my / our tender document will lead to the conclusion that my / our company is not registered with COIDA.*

## **CIDB REGISTRATION**

***Attached hereto is my / our registration number with the Construction Industry Development Board. My / our failure to submit the registration number with my / our tender document will lead to the conclusion that my / our company is not registered with CIDB.***

***NOTE: The CIDB can be contacted or visited on [www.cidb.org.za](http://www.cidb.org.za) for more information on registration. Obtain a "Code of Conduct for all parties engaged in construction procurement" for your information.***



## **CONTRACTOR'S PROOF OF RESIDENCE**

*Attached hereto is my / our proof of registration for regional levies, rates and taxes, electricity or water account, etc. My failure to submit the proof with my / our tender document will lead to the conclusion that I am / we are not resident in Dipaleseng Local Municipality.*

## **B-BBEE STATUS LEVEL VERIFICATION CERTIFICATES**

*[Valid B-BBEE status level verification certificate to be inserted here]*

***Failure to submit a valid ORIGINAL OR CERTIFIED COPY OF B-BBEE verification shall result in no score allocated for preferential procurement.***

## CSD AUDIT REPORT

*[CSD audit report to be inserted here]*

***Bidder to attach an audit Central Supplier Database (CSD) audit report, Employer to verify status.***

## CONTRACTOR'S HEALTH AND SAFETY DECLARATION

In terms of Clause 4(4) of the OHS Act 1993 Construction Regulations 2003 (referred to as "the Regulations" hereafter), a Contractor may only be appointed to perform construction work if the Employer is satisfied that the Contractor has the necessary competencies and resources to carry out the work safely in accordance with the Occupational Health and Safety Act No 85 of 1993 and the OHS Act 1993 Construction Regulations 2003.

To that effect a person duly authorized by the tenderer must complete and sign the declaration hereafter in detail.

### Declaration by Tenderer

1. I the undersigned hereby declare and confirm that I am fully conversant with the Occupational Health and Safety Act No 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No 181 of 1993), and the OHS Act 1993 Construction Regulations 2003.
2. I hereby declare that my company / enterprise has the competence and the necessary resources to safely carry out the construction work under this contract in compliance with the Construction Regulations and the Employer's Health and Safety Specifications.
3. I hereby undertake, if my tender is accepted, to provide a sufficiently documented Health and Safety Plan in accordance with Regulation 5(1) of the Construction Regulations, approved by the Employer or his representative, before I will be allowed to commence with construction work under the contract. I hereby agree that my company/enterprise will not have a claim for compensation for delay or extension of time because of my failure to obtain the necessary approval for the said safety plan.
4. I confirm that copies of my company's approved Health and Safety Plan, the Employer's Safety Specifications as well as the OHS Act 1993 Construction Regulations 2003 will be provided on site and will at all times be available for inspection by the Contractor's personnel, the Employer's personnel, the Engineer, visitors, and officials and inspectors of the Department of Labour.
5. I hereby confirm that adequate provision has been made in my tendered rates and prices in the bill of quantities to cover the cost of all resources, actions, training and all health and safety measures envisaged in the OHS Act 1993 Construction Regulations 2003, including the cost for specific items that may be scheduled in the bill of quantities.
6. I hereby confirm that I will be liable for any penalties that may be applied by the Employer in terms of the said Regulations for failure on my part to comply with the provisions of the Act and the Regulations as set out in Regulation 30 of the Regulations.
7. I agree that my failure to complete and execute this declaration to the satisfaction of the Employer will mean that I am unable to comply with the requirements of the OHS Act 1993 Construction Regulations 2003, and accept that my tender will be prejudiced and may be rejected at the discretion of the Employer.
8. I am aware of the fact that, should I be awarded the contract, I must submit the notification required in terms of Regulation 3 of the OHS Act 1993 Construction Regulations 2003 (*example attached hereafter*) before I will be allowed to proceed with any work under the contract.

SIGNATURE: ..... IDENTITY NUMBER: .....

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

DATE:.....

Tender

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T2.2

Part T2: Returnable documents

Returnable Schedules

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

**PRO FORMA NOTIFICATION FORM IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT 1993, CONSTRUCTION REGULATIONS 2003**

***[In terms of Regulation 3 of the Construction Regulations 2003, the successful Tenderer must complete and forward this form prior to commencement of work to the office of the Department of Labour.]***

- 1. (a) Name and postal address of Contractor: .....
- .....
- (b) Name of Contractor's contact person: .....
- Telephone number: .....
- 2. Contractor's compensation registration number: .....
- 3. (a) Name and postal address of client: .....
- .....
- (b) Name of client's contact person or agent: .....
- Telephone number .....
- 4. (a) Name and postal address of designer(s) for the project: .....
- .....
- (b) Name of designer's contact person: .....
- Telephone number .....
- 5. Name of Contractor's construction supervisor on site appointed in terms of Regulation 6(1): .....
- Telephone number: .....
- 6. Name/s of Contractor's sub-ordinate supervisors on site appointed in terms of regulation 6(2).  
.....
- 7. Exact physical address of the construction site or site office:.....
- .....
- 8. Nature of the construction work: .....
- .....
- 9. Expected commencement date: .....
- 10. Expected completion date: .....
- 11. Estimated maximum number of persons on the construction site: .....
- 12. Planned number of subcontractors on the construction site accountable to Contractor: .....
- 13. Name(s) of subcontractors already chosen: .....
- .....

SIGNED BY:

CONTRACTOR:..... DATE:.....

IDENTITY NUMBER:.....

CLIENT:..... DATE:.....



**Tick sheet of returnable schedules:**

**Tick**

Record of Addenda to Tender Documents	
Certificate of Attendance of Site Inspection	
Compulsory Enterprise Questionnaire	
Certificate of Authority for Signature	
Schedule of Plant and Equipment	
Schedule of Tenderer's Trade References	
Schedule of Tenderer's Experience	
Schedule of Subcontractors	
Key Personnel (CV & certified copies of qualifications where applicable)	
Bills of Quantities / Schedule of Rates ( <b>all items priced</b> )	
Proposed Amendments and Qualifications	
Joint Venture Agreement	
Certified copy of contractor Registration for Incorporation or of Company Registration Document	
Tenderer's Financial Standing (Bank or Financial Institution rating)	
An original valid Tax Clearance Certificate issued by the South African Revenue Services	
Copy of COIDA (Compensation for Occupational Injuries and Diseases) registration certificate, eg Letter of Good Standing	
CIDB Registration number provided	
Proof of residence in Mpumalanga, eg registration for regional levies, rates and taxes, electricity or water account, etc, if a preference is claimed for being registered in N Local Municipality	
B-BBEE status level verification certificate attached	
Contractor's Health and Safety Declaration	
Proposed project programme	

**PREFERENCING SCHEDULE (DIRECT PREFERENCE)**

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) status Level of Contribution

**NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2011.**

**1. GENERAL CONDITIONS**

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

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

1.2 The value of this bid is estimated to be below R50 000 000 (all applicable taxes included) and therefore, the 80/20 system shall be applicable.

1.3 Preference points for this bid shall be awarded for:

- Price; and
- B-BBEE Status Level of Contribution.

1.3.1 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF CONTRIBUTION	20
Total points for Price and B-BBEE must not exceed	100

1.4 Failure on the part of a bidder to fill in and/or to sign this form and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System (SANAS) or a Registered Auditor approved by the Independent Regulatory Board of Auditors (IRBA) or an Accounting Officer as contemplated in the Close Corporation Act (CCA) together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

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

**2. DEFINITIONS**

2.1 **“all applicable taxes” includes** value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;

2.2 **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;

2.3 **“B-BBE status level of contributor”** means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9 (1) of the Broad-Based Black Economic



	Empowerment Act;
2.4	“ <b>bid</b> ” means a written offer in a prescribed form in response to an invitation by an organ of state for the provision of services, works or goods, through price quotations, advertised competitive bidding processes or proposals;
2.5	“ <b>Broad-Based Black Economic Empowerment Act</b> ” means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
2.6	“ <b>comparative price</b> ” means the price after the factors of a non-firm price and all unconditional discounts that can be utilized have been taken into consideration;
2.7	“ <b>consortium or joint venture</b> ” means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract;
2.8	“ <b>contract</b> ” means the agreement that results from the acceptance of a bid by an organ of state;
2.9	“ <b>EME</b> ” means any enterprise with an annual total revenue of R5 million or less.
2.10	“ <b>Firm price</b> ” means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs or excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
2.11	“ <b>functionality</b> ” means the measurement according to predetermined norms, as set out in the bid documents, of a service or commodity that is designed to be practical and useful, working or operating, taking into account, among other factors, the quality, reliability, viability and durability of a service and the technical capacity and ability of a bidder;
2.12	“ <b>non-firm prices</b> ” means all prices other than “firm” prices;
2.13	“ <b>person</b> ” includes a juristic person;
2.14	“ <b>rand value</b> ” means the total estimated value of a contract in South African currency, calculated at the time of bid invitations, and includes all applicable taxes and excise duties;
2.15	“ <b>sub-contract</b> ” means the primary contractor’s assigning, leasing, making out work to, or employing, another person to support such primary contractor in the execution of part of a project in terms of the contract;
2.16	“ <b>total revenue</b> ” bears the same meaning assigned to this expression in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act and promulgated in the Government Gazette on 9 February 2007;
2.17	“ <b>trust</b> ” means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person; and
2.18	“ <b>trustee</b> ” means any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person,
<b>3.</b>	<b>ADJUDICATION USING A POINT SYSTEM</b>
3.1	The bidder obtaining the highest number of total points will be awarded to contract.
3.2	Preference points shall be calculated after prices have been brought to a comparative basis taking into account all factors of non-firm prices and all unconditional discounts;
3.3	Points scored must be rounded off to the nearest 2 decimal places.
3.4	In the event that two or more bids have scored equal total points, the successful bid must be the one scoring

the highest number of preference points for B-BBEE.

- 3.5 However, when functionality is part of the evaluation process and two or more bids have scored equal points including equal preference points for B-BBEE, the successful bid must be the one scoring the highest score for functionality.
- 3.6 Should two or more bids be equal in all respects, the award shall be decided by the drawing of lots.

**4. POINTS AWARDED RO PRICE**

**4.1 THE 80/20 PREFERENCE POINT SYSTEMS**

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

80/20

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

Where

- P<sub>s</sub> = Points scored for comparative price of bid under consideration
- P<sub>t</sub> = Comparative price of bid under consideration
- P<sub>min</sub> = Comparative price of lowest acceptable bid

**5. Points awarded for B-BBEE Status Level of Contribution**

- 5.1 In terms of Regulation 5 (2) and 6 (2) of the Preferential Procurement Regulations, preference pints must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (80/20 system)
1	20
2	18
3	16
4	12
5	8
6	6
7	4
8	2
Non-compliant contributor	0

- 5.2 Bidders who qualify as EMEs in terms of the B-BBEE Act must submit a certificate issued by an Accounting Officer as contemplated in the DCCA or a Verification Agency accredited by SANAS or a Registered Auditor. Registered auditors do not need to meet the prerequisite for IRBA's approval for the purpose of conducting verification and issuing EMEs with B-BBEE Status Level Certificates.
- 5.3 Bidders other than EMEs must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof, substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA or a Verification Agency accredited by SANAS
- 5.4 A trust, consortium or joint venture, will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if the were a group structure

and that such a consolidated B-BBEE scorecard is prepared for every separate bid.

- 5.5 A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate bid.
- 5.6 Tertiary institutions and public entities will be required to submit their B-BBEE status level certificate in terms of the specialized scorecard contained in the B-BBEE Codes of Good Practice.
- 5.7 A person will not be awarded points for B-BBEE status level if it is indicated in the bid documents that such a bidder intends sub-contracting more than 25% of the value of the contract to any other enterprise that does not qualify for at least the points that such a bidder qualifies for, unless the intended sub-contractor is an EME that has the capability and ability to execute the sub-contract.
- 5.8 A person awarded a contract may not sub-contract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is sub-contracted to an EME that has the capability and ability to execute the sub-contract.

**6 BID DECLARATION**

6.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

**7. B-BBEE STATUS LEVEL OF CONTRIBUTION CLAIMED IN TERMS OF PARAGRAPHS 1.2, 1.3 AND 5.1**

7.1 B-BBEE Status Level of Contribution: ..... = ..... (maximum of 10 or 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 5.1 and must be substantiated by means of a B-BBEE certificate issued by a Verification Agency accredited by SANAS or a Registered Auditor approved by IRBA or an Accounting Officer as contemplated in the CCA).

**8. SUB-CONTRACTING**

8.1 Will any portion of the contract be sub-contracted?

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

8.1.1 If yes, indicate:

i) what percentage of the contract will be subcontracted? \_\_\_\_\_ %

ii) the name of the sub-contractor? \_\_\_\_\_

iii) The B-BBEE status level of the sub-contractor? \_\_\_\_\_

iv) whether the sub-contractor is an EME? 

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

**9. DECLARATION WITH REGARD TO COMPANY/FIRM**

9.1 Name of firm:

\_\_\_\_\_

9.2 VAT registration number

---

9.3 Company Registration number

---

9.4 **TYPE OF FIRM** (Tick Applicable Box)

<input type="checkbox"/>	Partnership/Joint venture / consortium
<input type="checkbox"/>	One Person business / sole propriety
<input type="checkbox"/>	Close Corporation
<input type="checkbox"/>	Company
<input type="checkbox"/>	(Pty) Ltd
<input type="checkbox"/>	Other: Specify

9.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

---

---

9.6 MUNICIPAL INFORMATION

Municipality where business is situated

---

Registered Account Number

---

Stand Number

---

9.7 TOTAL NUMBER OF YEARS THE COMPANY/FIRM HAS BEEN IN BUSINESS? \_\_\_\_\_

9.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBEE status level of contribution indicated in paragraph 7 of the foregoing certificate, qualifies the company / firm for the preference(s) shown and I / we acknowledge that:

The information furnished is true and correct;

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

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

- (iv) If the B-BBEE status level of contribution has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
- (a) disqualify the person from the bidding process;
  - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
  - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
  - (d) restricted the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, from obtaining business from any organ of state for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and
  - (e) forward the matter for criminal prosecution

**WITNESSES:**

- 1. ....
- 2. ....

.....  
**SIGNATURE(S) OF BIDDER(S)**

DATE:

\_\_\_\_\_

ADDRESS:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**MBD 4**

**DECLARATION OF INTEREST**

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

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

- 3.1 Full Name: .....
- 3.2 Identity Number: .....
- 3.3 Company Registration Number: .....
- 3.4 Tax Reference Number: .....
- 3.5 VAT Registration Number: .....

3.6 Are you presently in the service of the state\* **YES / NO**

3.6.1 If so, furnish particulars.  
.....  
.....

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

3.7.1 If so, furnish particulars.

\_\_\_\_\_

\* MSCM Regulations: "in the service of the state" means to be –  
(a) a member of –  
    (i) any municipal council;  
    (ii) any provincial legislature; or  
    (iii) the national Assembly or the national Council of provinces;  
  
(b) a member of the board of directors of any municipal entity;  
(c) an official of any municipality or municipal entity;  
(d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);  
(e) a member of the accounting authority of any national or provincial public entity; or  
(f) an employee of Parliament or a provincial legislature.

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

3.8.1 If so, furnish particulars.  
.....  
.....

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

3.9.1 If so, furnish particulars  
.....  
.....

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

3.10.1 If so, furnish particulars.  
.....  
.....

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

3.11.1 If so, furnish particulars.  
.....  
.....

**CERTIFICATION**

I, THE UNDERSIGNED (NAME) .....

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

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

.....  
**Signature**

.....  
**Date**

.....  
**Position**

.....  
**Name of Bidder**



**DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES**

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

Item	Question	Yes	No
4.1	Is the bidder or any of its directors listed on the National Treasury's database as a company or person prohibited from doing business with the public sector? <b>(Companies or persons who are listed on this database were informed in writing of this restriction by the National Treasury after the <i>audi alteram partem</i> rule was applied).</b>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? <b>(To access this Register enter the National Treasury's website, <a href="http://www.treasury.gov.za">www.treasury.gov.za</a>, click on the icon "Register for Tender Defaulters" or submit your written request for a hard copy of the Register to facsimile number (012) 3265445).</b>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.3.1	If so, furnish particulars:		
Item	Question	Yes	No
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.7.1	If so, furnish particulars:		

**CERTIFICATION**

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

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

.....  
**Signature**

.....  
**Date**

.....  
**Position**

.....  
**Name of Bidder**

### CERTIFICATE OF INDEPENDENT BID DETERMINATION

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

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

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

**CERTIFICATE OF INDEPENDENT BID DETERMINATION**

I, the undersigned, in submitting the accompanying bid:

\_\_\_\_\_

(Bid Number and Description)

in response to the invitation for the bid made by:

\_\_\_\_\_

(Name of Municipality / Municipal Entity)

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

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

(Name of Bidder)

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

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

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

**MBD 9**

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

.....  
Signature

.....  
Date

.....  
Position

.....  
Name of Bidder

# DIPALESANG LOCAL MUNICIPALITY

## CONSTRUCTION OF SEWER RETICULATION AND TOILET TOP STRUCTURES IN SIYATHEMBA EXT 5 & 6

### C1.1 Form of Offer and Acceptance

#### Offer

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

#### **BID NO.: DLM 09/2017: CONSTRUCTION OF SEWER RETICULATION AND TOP STRUCTURES IN SIYATHEMBA EXTENSIONS 5 AND 6**

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

By the representative of the tenderer, deemed to be duly authorized, signing this part of this form of offer and acceptance, the tenderer offers to perform all of the obligations and liabilities of the contractor under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the contract data.

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

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

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

Signature ..... Date .....  
Name ..... Identity number .....  
Capacity .....

**for the tenderer**  
(Name and .....  
address of .....  
organization) .....

Name and .....  
signature .....

**NOTE: Failure of a tenderer to sign this part of the tender form (offer) will invalidate the tender**

**Acceptance**

By signing this part of this form of offer and acceptance, the employer identified below accepts the tenderer's offer. In consideration thereof, the employer shall pay the contractor the amount due in accordance with the conditions of contract identified in the contract data. Acceptance of the tenderer's offer shall form an agreement between the employer and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

- Part C1: Agreements and contract data, (which includes this agreement)
- Part C2: Pricing data
- Part C3: Scope of work.
- Part C4: Site information

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

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the tender schedules as well as any changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this agreement. No amendments to or deviations from said documents are valid unless contained in this schedule.

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer's agent (whose details are given in the contract data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data. Failure to 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 copy of this document, including the schedule of deviations (if any). Unless the tenderer (now contractor) within five working days of the date of such receipt notifies the employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

Signature ..... Date .....

Name ..... Identity number .....

Capacity .....

**for the Employer**     **Dipaleseng Local Municipality**  
 Cnr Johnny Makoena Drive and Themba Shozi Street  
 Private Bag X1005  
 Balfour, 2410

Name and signature of witness ..... Date .....

.....



**Schedule of Deviations**

- 1 Subject .....
- Details .....
- .....
- .....
- .....
- 2 Subject .....
- Details .....
- .....
- .....
- .....
- 3 Subject .....
- Details .....
- .....
- .....
- .....
- 4 Subject .....
- Details .....
- .....
- .....
- .....
- 5 Subject .....
- Details .....
- .....
- .....
- .....

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

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

## DIPALESENG LOCAL MUNICIPALITY

### CONSTRUCTION OF SEWER RETICULATION AND TOILET TOP STRUCTURES IN SIYATHEMBA EXT 5 & 6

#### **C1.2 Contract Data for Contract number:**

The General Conditions of Contract for Construction Works (2015) published by the South African Institution of Civil Engineering, is applicable to this contract. Copies of these conditions of contract may be obtained from Consulting Engineers South Africa (CESA) – 011 463-2022.

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

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

#### **The variations to the General Conditions of Contract are:**

None

#### **The additions to the General Conditions of Contract are:**

Clause	Additions
A1	<p><b>A1.0 Labour intensive component of the works</b></p> <p><b>A1.1 Payment of labour-intensive component of the works.</b></p> <p>Payment for works identified in the Scope of Work as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the Scope of Work. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.</p> <p><b>A1.2 Applicable labour laws</b></p> <p>The Ministerial Determination, Special Public Works Programme, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice No R63 of 25 January 2002, as reproduced below, shall apply to works described in the Scope of Work as being labour intensive and which are undertaken by unskilled or semi-skilled workers.</p> <p><b>1 Introduction</b></p> <p>1.1 This document contains the standard terms and conditions for workers employed in elementary occupations on a Special Public Works Programme (SPWP). These terms and conditions do NOT apply to persons employed in the supervision and management of a SPWP.</p> <p>1.2 In this document –</p> <p>(a) "department" means any department of the State, implementing agent or contractor;</p> <p>(b) "employer" means any department, implementing agency or contractor that hires workers to work in elementary occupations on a SPWP;</p> <p>(c) "worker" means any person working in an elementary occupation on a SPWP;</p> <p>(d) "elementary occupation" means any occupation involving unskilled or semi-skilled</p>

work;

- (e) "management" means any person employed by a department or implementing agency to administer or execute an SPWP;
- (f) "task" means a fixed quantity of work;
- (g) "task-based work" means work in which a worker is paid a fixed rate for performing a task;
- (h) "task-rated worker" means a worker paid on the basis of the number of tasks completed
- (i) "time-rated worker" means a worker paid on the basis of the length of time worked.

## **2 Terms of Work**

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

## **3 Normal Hours of Work**

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

## **4 Meal Breaks**

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

## **5 Special Conditions for Security Guards**

- 5.1 A security guard may work up to 55 hours per week and up to eleven hours per day.
- 5.2 A security guard who works more than ten hours per day must have a meal break of at least one hour or two breaks of at least 30 minutes each.

## **6 Daily Rest Period**

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

## **7 Weekly Rest Period**

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

**8 Work on Sundays and Public Holidays**

- 8.1 A worker may only work on a Sunday or public holiday to perform emergency or security work.
- 8.2 Work on Sundays is paid at the ordinary rate of pay.
- 8.3 A task-rated worker who works on a public holiday must be paid –
  - (a) the worker's daily task rate, if the worker works for less than four hours;
  - (b) double the worker's daily task rate, if the worker works for more than four hours.
- 8.4 A time-rated worker who works on a public holiday must be paid –
  - (a) the worker's daily rate of pay, if the worker works for less than four hours on the public holiday;
  - (b) double the worker's daily rate of pay, if the worker works for more than four hours on the public holiday

**9 Sick Leave**

- 9.1 Only workers who work four or more days per week have the right to claim sick-pay in terms of this clause.
- 9.2 A worker who is unable to work on account of illness or injury is entitled to claim one day's paid sick leave for every full month that the worker has worked in terms of a contract.
- 9.3 A worker may accumulate a maximum of twelve days' sick leave in a year.
- 9.4 Accumulated sick-leave may not be transferred from one contract to another contract.
- 9.5 An employer must pay a task-rated worker the worker's daily task rate for a day's sick leave.
- 9.6 An employer must pay a time-rated worker the worker's daily rate of pay for a day's sick leave.
- 9.7 An employer must pay a worker sick pay on the worker's usual payday.
- 9.8 Before paying sick-pay, an employer may require a worker to produce a certificate stating that the worker was unable to work on account of sickness or injury if the worker is –
  - (a) absent from work for more than two consecutive days; or
  - (b) absent from work on more than two occasions in any eight-week period.
- 9.9 A medical certificate must be issued and signed by a medical practitioner, a qualified nurse or a clinic staff member authorised to issue medical certificates indicating the duration and reason for incapacity.
- 9.10 A worker is not entitled to paid sick-leave for a work-related injury or occupational disease for which the worker can claim compensation under the Compensation for Occupational Injuries and Diseases Act.

**10 Maternity Leave**

- 10.1 A worker may take up to four consecutive months' unpaid maternity leave.
- 10.2 A worker is not entitled to any payment or employment-related benefits during maternity leave.
- 10.3 A worker must give her employer reasonable notice of when she will start maternity leave and when she will return to work.
- 10.4 A worker is not required to take the full period of maternity leave. However, a worker may not work for four weeks before the expected date of birth of her child or for six weeks after the birth of her child, unless a medical practitioner, midwife or qualified nurse certifies that she is fit to do so.
- 10.5 A worker may begin maternity leave –
  - (a) four weeks before the expected date of birth; or

	<p>(b) on an earlier date –</p> <p>(i) if a medical practitioner, midwife or certified nurse certifies that it is necessary for the health of the worker or that of her unborn child; or</p> <p>(ii) if agreed to between employer and worker; or</p> <p>(c) on a later date, if a medical practitioner, midwife or certified nurse has certified that the worker is able to continue to work without endangering her health.</p> <p>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.</p> <p>10.7 A worker, who returns to work after maternity leave, has the right to start a new cycle of twenty-four months employment, unless the SPWP on which she was employed has ended.</p> <p><b>11 Family responsibility leave</b></p> <p>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 -</p> <p>(a) when the employee's child is born;</p> <p>(b) when the employee's child is sick;</p> <p>(c) in the event of a death of –</p> <p>(i) the employee's spouse or life partner;</p> <p>(ii) employee's parent, adoptive parent, grandparent, child, adopted child, grandchild or sibling.</p> <p><b>12 Statement of Conditions</b></p> <p>12.1 An employer must give a worker a statement containing the following details at the start of employment –</p> <p>(a) the employer's name and address and the name of the SPWP;</p> <p>(b) the tasks or job that the worker is to perform; and</p> <p>(c) the period for which the worker is hired or, if this is not certain, the expected duration of the contract;</p> <p>(d) the worker's rate of pay and how this is to be calculated;</p> <p>(e) the training that the worker will receive during the SPWP.</p> <p>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.</p> <p>12.3 An employer must supply each worker with a copy of these conditions of employment.</p> <p><b>13 Keeping records</b></p> <p>13.1 Every employer must keep a written record of at least the following –</p> <p>(a) the worker's name and position;</p> <p>(b) in the case of a task-rated worker, the number of tasks completed by the worker;</p> <p>(c) in the case of a time-rated worker, the time worked by the worker;</p> <p>(d) payments made to each worker.</p> <p>13.2 The employer must keep this record for a period of at least three years after the completion of the SPWP.</p> <p><b>14 Payment</b></p> <p>14.1 An employer must pay all wages at least monthly in cash or by cheque or into a bank account.</p> <p>14.2 A task-rated worker will only be paid for tasks that have been completed.</p> <p>14.3 An employer must pay a task-rated worker within five weeks of the work being completed and</p>
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	<p>the work having been approved by the manager or the contractor having submitted an invoice to the employer.</p> <p>14.4 A time-rated worker will be paid at the end of each month.</p> <p>14.5 Payment must be made in cash, by cheque or by direct deposit into a bank account designated by the worker.</p> <p>14.6 Payment in cash or by cheque must take place –</p> <ul style="list-style-type: none"> <li>(a) at the workplace or at a place agreed to by the worker;</li> <li>(b) during the worker's working hours or within fifteen minutes of the start or finish of work;</li> <li>(c) in a sealed envelope which becomes the property of the worker.</li> </ul> <p>14.7 An employer must give a worker the following information in writing –</p> <ul style="list-style-type: none"> <li>(a) the period for which payment is made;</li> <li>(b) the numbers of tasks completed or hours worked;</li> <li>(c) the worker's earnings;</li> <li>(d) any money deducted from the payment;</li> <li>(e) the actual amount paid to the worker.</li> </ul> <p>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.</p> <p>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.</p> <p><b>15 Deductions</b></p> <p>15.1 An employer may not deduct money from a worker's payment unless the deduction is required in terms of a law.</p> <p>15.2 An employer must deduct and pay to the SA Revenue Services any income tax that the worker is required to pay.</p> <p>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.</p> <p>15.4 An employer may not require or allow a worker to –</p> <ul style="list-style-type: none"> <li>(a) repay any payment except an overpayment previously made by the employer by mistake;</li> <li>(b) state that the worker received a greater amount of money than the employer actually paid to the worker; or</li> <li>(c) pay the employer or any other person for having been employed.</li> </ul> <p><b>16 Health and Safety</b></p> <p>16.1 Employers must take all reasonable steps to ensure that the working environment is healthy and safe.</p> <p>16.2 A worker must –</p> <ul style="list-style-type: none"> <li>(a) work in a way that does not endanger his/her health and safety or that of any other person;</li> <li>(b) obey any health and safety instruction;</li> <li>(c) obey all health and safety rules of the SPWP;</li> <li>(d) use any personal protective equipment or clothing issued by the employer;</li> <li>(e) report any accident, near-miss incident or dangerous behaviour by another person to their employer or manager.</li> </ul>
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	<p><b>17 Compensation for Injuries and Diseases</b></p> <p>17.1 It is the responsibility of the employers (other than a contractor) to arrange for all persons employed on a SPWP to be covered in terms of the Compensation for Occupational Injuries and Diseases Act, 130 of 1993.</p> <p>17.2 A worker must report any work-related injury or occupational disease to their employer or manager.</p> <p>17.3 The employer must report the accident or disease to the Compensation Commissioner.</p> <p>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.</p> <p><b>18 Termination</b></p> <p>18.1 The employer may terminate the employment of a worker for good cause after following a fair procedure.</p> <p>18.2 A worker will not receive severance pay on termination.</p> <p>18.3 A worker is not required to give notice to terminate employment. However, a worker who wishes to resign should advise the employer in advance to allow the employer to find a replacement.</p> <p>18.4 A worker who is absent for more than three consecutive days without informing the employer of an intention to return to work will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.</p> <p>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.</p> <p><b>19 Certificate of Service</b></p> <ul style="list-style-type: none"> <li>(a) the worker's full name;</li> <li>(b) the name and address of the employer;</li> <li>(c) the SPWP on which the worker worked;</li> <li>(d) the work performed by the worker;</li> <li>(e) any training received by the worker as part of the SPWP;</li> <li>(f) the period for which the worker worked on the SPWP;</li> <li>(g) any other information agreed on by the employer and worker.</li> </ul>
A2	<p><b>A2.0 Expanded Public Works Programme</b></p> <p><b>A2.1</b> The Contractor will be required to employ staff which satisfy the EPWP requirements as per the Guidelines for the implementation of labour-intensive infrastructure projects under the EPWP and as stipulated in this Contract.</p>
A3	<p><b>A3.0 Mandatory Training</b></p> <p><b>A3.1</b> The Contractor will be required to provide training to sub-contractors. An allowance for this has been made in the final summary of the bills of quantities, which will be treated as a budgetary allowance which the Contractor can use for training and which may be deducted in part or in whole from the project should it not be used.</p>

## Part 1: Contract Data Completed by the Employer

Clause	Item and data
1.1.1.15	The name of the Employer is the <b>Dipaleseng Local Municipality</b>
1.2.1	The address of the Employer is:  Telephone : (017) 773 0055 Facsimile : (017) 773 0169 Address (physical) : Cnr Johnny Makoena Drive and Themba Shozi Street, Balfour, 2410 Address (postal) : Private Bag X1005, Balfour, 2410
1.1.1.16	The name of the Engineer is <b>NKP Consulting Engineers (Pty) Ltd</b>
1.2.1.2	The address of the Engineer is:  Telephone : (013) 492 0492 Facsimile : (086) 554 6578 Address (physical) : Plot 76, The Rest Nelspruit, 1200 Address (postal) : P O Box 11, Nelspruit, 1200
5.1 and 5.8	The special non-working days are public holidays, Saturdays, Sundays and the days on which the contractor grants the majority of his permanent workforce leave around the 16 <sup>th</sup> December and the first Monday of the subsequent year.



- 3.3.3 The Engineer is required to obtain the specific approval of the Employer before executing any of the following functions or duties:
- 1 Nominating the Engineer's Representative in terms of cl 3.2.1
  - 2 Delegation of Engineer's authority in terms of cl 3.2.2
  - 3 Providing consent for subcontracting part of the contract in terms of cl 4.4.3
  - 4 The issuing of further drawings or instructions in terms of cl 5.9.2
  - 5 The issuing of instructions for dealing with fossils and the like in terms of cl 4.7
  - 6 Authorizing the Contractor to repair and make good excepted risks in terms of cl 8.2.2.1
  - 7 The issuing of a variation order in terms of cl 6.3.2
  - 8 Issuing of instructions to carry out work on a daywork basis in terms of cl 6.5
  - 9 Granting permission to work during non-working times in terms of cl 5.8
  - 10 Suspend the progress of the works in terms of cl 5.11.1
  - 11 The issuing of an instruction to accelerate progress in terms of cl 5.7.3
  - 12 The reduction of a penalty for delay in terms of cl 5.13.2
  - 10 The determination of additional or reduced costs arising from changes in legislation in terms of cl 6.8.4
  - 11 The giving of a ruling on a contractor's claim in terms of cl 10.1.5
  - 12 The agreeing of an extension to the 28 period in terms of cl 10.1.5.1
  - 13 The inclusion of credits in the next payment certificate in terms of cl 10.1.5.2
  - 14 The agreeing of the adjustment of the sums for general items in terms of cl 6.11.1
- 8.6 The time to deliver the Form of Guarantee within 14 days of the Commencement Date.  
The Form of Guarantee is to contain the wording of the document included in C1.3.  
The liability for the guarantee shall be for 10% of the contract price.
- 5.3 The Works are to be commenced within 14 days of the Commencement Date.

- 5.6 The Works programme is to be delivered within 14 days of the Commencement Date.
- 8.6.1.1.2 The value of the materials supplied by the Employer to be included in the insurance sum is R0-00
- 8.6.1.1.3 The amount to cover professional fees for repair or reinstatement of damage to the works to be included in the insurance sum is R0-00
- 8.6.1.3 The limit of liability insurance is R 5 000 000 per claim.
- 8.6.1.5 No additional insurance is required.
- 6.5.1.2.3 The percentage allowances to cover overhead charges is 10%.
- 5.5.1 The Works shall be completed within the timeframe stated by the contractor at tender stage.
- 1.1.1.14
- 5.13 The **penalty per calendar day** is 3,75c per R100 of the contract value *for failing to complete the works within the contract period.*
- 6.8.2 The project duration is estimated to be 6 months, therefore no contract price adjustments will be applicable.
- 6.10.1.5 The percentage advance on materials not yet built into the Permanent Works is 80%
- 6.10.3 The percentage retention on amounts due to the Contractor is 10 %.
- 6.10.3 The limit on retention is 5 % of the Contract Price
- 7.8.1 The Defects Liability Period is 12 months.
- 10.5 Dispute resolution is to be my means of adjudication
- 10.7 Disputes are to be referred for final settlement to arbitration.



## DIPALESENG LOCAL MUNICIPALITY

### CONSTRUCTION OF SEWER RETICULATION AND TOILET TOP STRUCTURES IN SIYATHEMBA EXT 5 & 6

#### C1.3 Construction Guarantee

#### GUARANTOR DETAILS AND DEFINITIONS

Guarantor means .....  
Physical address .....

Employer means **The Dipaleseng Local Municipality,**

Contractor means .....

Engineer means **NKP Consulting Engineers (Pty) Ltd: Civil and Structural Engineers**

Works means **Construction of Sewer Reticulation and Toilet Top Structures in Siyathemba  
Extensions 5 and 6**

Site means **Siyathemba Extensions 5 and 6, Balfour, Mpumalanga**

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 i.e. the total of prices in the Form of Offer and Acceptance inclusive of VAT

Amount in figures R .....

Amount in words ..... (Rand)

Guaranteed Sum means the maximum aggregate amount of R .....

Amount in words ..... (Rand)

1 The Guarantor's liability shall be limited to the amount of the Guaranteed Sum as follows:

GUARANTOR'S LIABILITY	PERIOD OF LIABILITY
Maximum Guaranteed Sum (not exceeding 10 % of the contract sum) in the amount of: ..... ..... (Rands) (R.....)	From and including the date of issue of this Construction Guarantee and up to and including the date of the only practical completion certificate or the last practical completion certificate where there are sections, upon which this Construction Guarantee shall expire.

2 The Guarantor hereby acknowledges that:

- 2.1 Any reference in this Guarantee to the Agreement 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.
- 2.2 Its obligation under this Guarantee is restricted to the payment of money.
- 3 Subject to the Guarantor's maximum liability referred to in clauses 1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in sub-clauses 3.1 to 3.3:
  - 3.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Principal Agent in an interim or final payment certificate has not been made in terms of the Agreement and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of sub-clause 3.2
  - 3.2 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) calendar days has elapsed since the first written demand in terms of sub-clause 4.1 and that the sum certified has still not been paid therefore the Employer calls up this Guarantee and demands payment of the sum certified from the Guarantor.
  - 3.3 A copy of the said payment certificate, which entitles the Employer to receive payment in terms of the Agreement of the sum certified in clause 3.
- 4 Subject to the Guarantor's maximum liability referred to in clause 1, the Guarantor undertakes to pay 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 Guarantee stating that:
  - 4.1 The Agreement has been cancelled due to the Contractor's default and that the Guarantee is called up in terms of clause 4. The demand shall enclose a copy of the notice of cancellation; or
  - 4.2 A provisional sequestration or liquidation court order has been granted against the Contractor and that the Guarantee is called up in terms of clause 4. The demand shall enclose a copy of the court order.
- 5 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of clauses 3 and 4 shall not exceed the Guarantor's maximum liability in terms of clause 1.

- 6 Where the Guarantor is a registered insurer and has made payment in terms of clause 4, 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 the Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Guarantee shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund.
- 7 Payment by the Guarantor in terms of clause 3 or 4 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
- 8 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer deems fit and the Guarantor shall not have the right to claim his release from this Guarantee on account of any conduct alleged to be prejudicial to the Guarantor
- 9 The Guarantor chooses the physical address as stated above for all purposes in connection herewith.
- 10 This Guarantee is neither negotiable nor transferable and shall expire in terms of clause 1, or payment in full of the Guaranteed Sum or on the Guarantee expiry date, whichever is the earlier, 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
- 11 This Guarantee, with the required demand notices in terms of clauses 3 or 4, shall be regarded as a liquid document for the purpose of obtaining a court order.
- 12 Where this Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.

Signed at ..... Date .....

Guarantor's Signatory 1 ..... Guarantor's Signatory 2 .....

Identity number ..... Identity number .....

Witness 1 ..... Witness 2 .....

Guarantor's seal or stamp

**DIPALESENG LOCAL MUNICIPALITY**

**CONSTRUCTION OF SEWER RETICULATION AND TOILET TOP STRUCTURES IN SIYATHEMBA EXT 5 & 6**

**C1.4 ADJUDICATOR’S AGREEMENT**

This agreement is made on the . . . . . day of . . . . . between: . . . . .

.....

of . . . . . (name of company / organisation)

..... (address) and

.....  
(name of company / organisation)

of . . . . . (address)

..... (the Parties) and

.....  
(name)

of . . . . .

..... (address)

(the Adjudicator).

The Contractor and the Employer will hereafter be collectively referred to as the Parties.

The Parties entered into a Contract for **Construction of Sewer Reticulation and Toilet Top Structures in Siyathemba Ext. 5 and 6** which provides that a dispute under or in connection with the General Conditions of Contract for Construction Works, 2015 must be referred to ad-hoc adjudication.

**IT IS NOW AGREED** as follows:

- 1 The Adjudication Board Member accepts to perform his duties in accordance with the terms of the Contract, the General Conditions of Contract for Construction Works Adjudication Board Rules and this Agreement.
- 2 The Adjudicator undertakes to remain independent and impartial of the Contractor, Employer and Engineer for the duration of the Adjudication Board proceedings.
- 3 The Adjudication Board Member agrees to serve for the duration of the Adjudication Board proceedings.
- 4 The Parties may at any time, without cause and with immediate effect, jointly terminate this agreement.
- 5 Unless Parties agree, the Adjudication Board Members shall not act as arbitrator or representative of either party in any subsequent proceedings between the parties under the Contract. No Party may call the Adjudication Board Member as a witness in any such subsequent proceedings.
- 6 The standing Adjudication Board’s duties shall end upon the Adjudication Board Member(s) receiving notice from the Parties of their joint decision to disband the Adjudication Board.
- 7 The Adjudication Board Member shall be paid in respect of time spent upon or in connection with the adjudication including time spent travelling:

8 The Adjudication Board Member's expenses incurred in adjudication work shall be reimbursed at cost.

Upon submission of an invoice for fees and expenses to the Parties, the (Contractor/Employer) shall pay the full amount within 28 days of receipt of the invoice and he shall be reimbursed by the other party by half of the amount so that the fees and expenses are borne equally by the Parties. Late payment of such invoice shall attract interest at prime plus 3% points compounded monthly at the prime rate charged by the Adjudication Board Member's bank.

This Agreement is entered into by:

SIGNED by: _____	SIGNED by: _____	SIGNED by: _____
Name: _____	Name: _____	Name: _____
Id: _____	Id: _____	Id: _____
who warrants that he / she is duly authorised to sign for and on behalf of the first Party in the presence of	who warrants that he / she is duly authorised to sign for and behalf of the second Party in the presence of	the Adjudicator in the presence of
Witness _____	Witness: _____	Witness: _____
Name: _____	Name _____	Name: _____
Address: _____	Address: _____	Address: _____
Date: _____	Date: _____	Date: _____



## DIPALESENG LOCAL MUNICIPALITY

### CONSTRUCTION OF SEWER RETICULATION AND TOILET TOP STRUCTURES IN SIYATHEMBA EXT 5 & 6

#### C2.1 Pricing Instructions

1. Measurement and payment shall be in accordance with the relevant provisions of the SABS/SANS 1200 sections.
2. The units of measurement described in these Bills of Quantities are metric units. Abbreviations used in these Bills of Quantities are as follows:

%	=	percent
h	=	hour
ha	=	hectare
kg	=	kilogram
kl	=	kilolitre
km	=	kilometre
km-pass	=	kilometre-pass
kPa	=	kilopascal
kW	=	kilowatt
l	=	litre
m	=	metre
mm	=	millimetre
m <sup>2</sup>	=	square metre
m <sup>2</sup> -pass	=	square metre-pass
m <sup>3</sup>	=	cubic metre
m <sup>3</sup> -km	=	cubic metre-kilometre
MN	=	meganewton
MN.m	=	meganewton-metre
MPa	=	megapascal
No.	=	number
Prov sum	=	Provisional sum
PC sum	=	Prime Cost sum
R/only	=	Rate only
sum	=	lump sum
t	=	ton (1000 kg)
W/day	=	Work day

3. For the purpose of these Bills 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 SABS/SANS 1200.
Quantity:	The number of units of work for each item.
Rate:	The agreed payment per unit of measurement.
Amount:	The product of the quantity and the agreed rate for an item.
Lump sum:	An agreed amount for an item, the extent of which is described in the Bills of Quantities but the quantity of work of which is not measured in any units.

4. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for waste.
5. It will be assumed that prices included in the bills of quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to [www.stanza.org.za](http://www.stanza.org.za) or [www.iso.org](http://www.iso.org) for information on standards)
6. The prices and rates in these Bills of Quantities are fully inclusive prices for the work described under the items. Such prices and rates cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. These prices will be used as a basis for assessment of payment for additional work that may have to be carried out.
7. Where the Scope of Work requires detailed drawings and designs or other information to be provided, all costs associated therewith are deemed to have been provided for and included in the unit rates and sum amount tendered such items
8. An item against which no price is entered will be considered to be covered by the other prices or rates in the Bills of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.
9. The quantities set out in these Bills of Quantities are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due and not the quantities given in these Bills of Quantities.
10. Reasonable compensation will be received where no pay item appears in the Bills of Quantities in respect of work required in terms of the Contract and which is not covered in any other pay item.
11. The short descriptions of the items of payment given in these Bills of Quantities are only for the purposes of identifying the items. More details regarding the extent of the work entailed under each item appear in the Scope of Work.
12. The payment reference numbers appearing in the Bills of Quantities refer to the corresponding item numbers in the SABS/SANS 1200.
13. Those parts of the contract to be constructed using labour-intensive methods have been marked in the Bills of Quantities with the letter L in a separate column filled in against every item so designated. The works, or parts of the works so designated are to be constructed using labour-intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the scope of work, is a variation to the contract. The items marked with the letter L are not necessarily an exhaustive list of all the activities which must be done by hand, and this clause does not over-ride any of the requirements in the generic labour intensive specification in the Scope of Works.
14. Payment for items which are designated to be constructed labour-intensively (either in this schedule or in the Scope of Works) will not be made unless they are constructed using labour-intensive methods. Any unauthorised use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.

## DIPALESING LOCAL MUNICIPALITY

### CONSTRUCTION OF SEWER RETICULATION AND TOILET TOP STRUCTURES IN SIYATHEMBA EXT 5 & 6

#### C2.2 Bills of Quantities

<b>SECTION A - PRELIMINARY AND GENERAL</b>						
<b>ITEM NO</b>	<b>PAYMENT REF</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b>SABS 1200 AA</b>	<b>PRELIMINARY AND GENERAL</b>				
A.1	8.3	<b>FIXED-CHARGE AND VALUE-RELATED ITEMS</b>				
A.1.1	8.3.1	Contractual requirements	Sum			
A.2	8.3.2	<b>SITE ESTABLISHMENT:</b>				
A.2.1	8.3.2.a)	<u>Facilities for Engineer:</u>				
A.2.1.1		Furnished Offices	Sum			
A.2.1.2		Construction Nameboard	Sum			
A.2.1.3		Office and boardroom for meetings	Sum			
A.2.2	8.3.2.b)	<u>Facilities for Contractor</u>				
A.2.2.1		Office and storage	Sum			
A.2.2.2		Workshops on site and elsewhere	Sum			
A.2.2.3		Laboratories	Sum			
A.2.2.4		Living accommodation	Sum			
A.2.2.5		Abution and toilet facilities on site and elsewhere	Sum			
A.2.2.6		Tools and equipment	Sum			
A.2.2.7		Water supplies, electric power and communication	Sum			
A.2.2.8		Dealing with water	Sum			
A.2.2.9		Plant for clearing site and access roads	Sum			
A.2.2.10		Plant for finishing of road reserve	Sum			
A.2.2.11		Plant for transportation of plant	Sum			
A.2.2.12		Plant for excavation	Sum			
A.2.3	8.3.3	Other Fixed Charge Obligations	Sum			
A.2.4	8.3.4	Removal of Site Establishment	Sum			
A.3	8.4	<b>TIME RELATED ITEMS</b>				
A.3.1	8.4.1	Contractual requirements	Sum			
A.3.2	8.4.2	<b>OPERATION AND MAINTENANCE OF FACILITIES ON SITE</b>				
A.3.2.1	8.4.2.a)	<u>Facilities for Engineer</u>				
A.3.2.1.1		Furnished Offices	Sum			
A.3.2.1.2		Construction Nameboard	Sum			
A.3.2.1.3		Office and boardroom for meetings	Sum			
A.3.2.2	8.4.2.b)	<u>Facilities for Contractor</u>				
A.3.2.2.1		Office and storage	Sum			
A.3.2.2.2		Workshops on site and elsewhere	Sum			
A.3.2.2.3		Laboratories	Sum			
A.3.2.2.4		Living accommodation	Sum			
<b>TOTAL CARRIED FORWARD</b>						

<b>SECTION A - PRELIMINARY AND GENERAL (Continued)</b>						
<b>ITEM NO</b>	<b>PAYMENT REF</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT</b>
<b>SECTION B BROUGHT FORWARD FROM PREVIOUS PAGE</b>						
A.3.2.2.5		Ablution and toilet facilities on site and elsewhere	Sum			
A.3.2.2.6		Tools and equipment	Sum			
A.3.2.2.7		Water supplies, electric power and communication	Sum			
A.3.2.2.8		Facilities for Engineer	Sum			
A.3.2.2.9		Furnished Offices	Sum			
A.3.2.2.10		Plant for excavation	Sum			
A.3.2.2.11		Supervision for the duration of Construction	Sum			
A.3.2.2.12		Company and Head Office Overhead Cost for the Duration of the Contract	Sum			
A.3.2.2.13		Other Time-related Obligations	Sum			
A.4	8.5	<b>SUMS STATED PROVISIONALLY BY ENGINEER</b>				
A.4.1	a)	Provisional Sum for control testing to be carried out by an approved independent laboratory	Prov. Sum			R 45 000.00
A.4.2	b)	Provisional Sum for staking and levelling to be carried out by an independent Engineering surveyor	Prov. Sum			R 75 000.00
A.4.3	c)	Community Liaison Officer (CLO) Salary	Prov. Sum			R 30 000.00
A.4.5	e)	Percentage mark-up on above items for contractors overheads, administration charge and profit	%			
A.5		<b>HEALTH AND SAFETY</b>				
A.5.1		Health and Safety Act (Compliance) To include compilation of health & safety file	Sum			
A.5.2		Re-imbusement of on site Safety Officer	Sum			
A.5.3		Prime costs for Health & Safety Act (incl. initial safety equipment/PPE for all labour) - LED Procurement locally & embroidery	Sum			
A.5.4		Time related obligation to items above	Sum			
A.5.5		Monthly OHS and EMP audits conducted by independent firm. As approved by Engineer	Prov. Sum			R 250 000.00
A.5.6		Percentage mark-up on above items for contractors overheads, administration charge and profit	%			
A.6	8.8	<b>TEMPORARY WORKS</b>				
A.6.1		Provision and maintaing of temporary by-passes (including road signs)	Sum			
A.6.2		Hand excavation to expose existing services	m <sup>3</sup>	1120		
A.6.3		<u>Protect existing services:</u>				
<b>TOTAL CARRIED FORWARD</b>						

<b>SECTION A - PRELIMINARY AND GENERAL (Continued)</b>						
<b>ITEM NO</b>	<b>PAYMENT REF</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT</b>
<b>SECTION B BROUGHT FORWARD FROM PREVIOUS PAGE</b>						
A.6.3.1		Sewer pipes (upto 200mm dia.)	No.	30		
A.6.3.2		Electrical cables & poles	No.	40		
A.6.3.3		Telecommunication cables & poles	No.	8		
A.6.3.4		Electrical cables	m	1300		
A.6.4		<u>Water supply:</u>				
A.6.4.1		Reticulation supply lines	m	1400		
A.6.4.2		House connections	m	400		
A.7		<b>PROVISION OF STRUCTURED TRAINING</b>				
A.7.1		Generic skills	Prov. Sum			R 50 000.00
A.7.2		Experiential training for S4 civil student	Prov. Sum			R 35 000.00
A.7.3		Percentage mark-up on above items for contractors overheads, administration charge and profit	%			
<b>TOTAL SECTION A TO SUMMARY</b>						

SECTION B - SEWER RETICULATION						
ITEM NO	PAYMENT REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>SABS 1200 DB</b>	<b>EARTHWORKS (Pipe trenches)</b>				
B.1	8.3.1	<u>Site Clearance:</u>				
B.1.1	8.3.1(a)	Clear vegetation and trees of girth up to 1m, clearance width 2.0m strip	m	3805		
B.2	8.3.2	<u>Excavation:</u>				
B.2.1	8.3.2(a)	Excavate in all materials for trenches, backfill, compact and dispose of excess material for 160-250mm diameter uPVC double walled sewer pipes				
B.2.1.1		for trench depths 0.5m to 1m	m	151.5		
B.2.1.2		for trench depths 1.0 to 1.5m	m	757.5		
B.2.1.3		for trench depths 1.5 to 2.0m	m	1060.5		
B.2.1.4		for trench depths 2.0 to 2.5m	m	666.6		
B.2.1.5		for trench depths >2.5m	m	393.9		
B.2.1.6		Trimming of trench bottoms by hand to specified levels.	m	3030		
B.2.1.7		<u>Restricted excavation</u>				
B.2.1.7.1		Excavate for trenches in all materials and use for backfill or embankment.	m <sup>3</sup>	690		
B.2.2	8.3.2(b)	<u>Extra-over item B.2.1 for excavation in:</u>				
B.2.2.1	8.3.2(b.1)	Intermediate material	m <sup>3</sup>	1807		
B.2.2.2	8.3.2(b.2)	Hard rock Excavation	m <sup>3</sup>	2065		
B.2.2.3	8.3.2(c)	Excavate and dispose of unsuitable material from trench bottom (provisional)	m <sup>3</sup>	258		
B.2.3	8.3.4 (a)	Shore trench opposite structure	m	15		
	<b>SABS 1200 LB</b>	<b>PROVISION OF BEDDING</b>				
B.3		<u>Available from trench excavation on site:</u>				
B.3.1	8.2.1	a) Selected granular material for bedding cradle	m <sup>3</sup>	218		
B.3.2		b)Selected fill blanket	m <sup>3</sup>	873		
B.4		<u>Import material from municipal borrow pit. Rate shall include for the opening and closing of the borrow pit.</u>				
B.4.1	8.2.1	a) Selected granular material for bedding cradle	m <sup>3</sup>	145		
B.4.2		b)Selected fill blanket	m <sup>3</sup>	582		
B.5		<u>Commercial sources</u>				
B.5.1	8.2.1	a) 13mm Crushed stone	m <sup>3</sup>			Rate Only
<b>SECTION B CARRIED FORWARD TO NEXT PAGE</b>						

SECTION B - SEWER RETICULATION - continued						
ITEM NO	PAYMENT REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>SECTION B BROUGHT FORWARD FROM PREVIOUS PAGE</b>						
B.5.2		b) Dump rock (size >50mm upto 250mm)	m <sup>3</sup>			Rate Only
B.6		<u>Excavation Ancillaries:</u>				
B.6.1		Make up deficiency in backfill material (provisional) from other necessary excavations on site	m <sup>3</sup>	100		
B.6.2		Compaction to 93% mod AASTHO Density in all trenches at road crossings and where directed by the Engineer. <b>(Soilcrete with a ratio of 8% cement, entire trench)</b>	m <sup>3</sup>			Rate Only
B.7		<u>Overhaul</u>				
B.7.1		a) Limited overhaul (provisional)	m <sup>3</sup>			Rate Only
B.7.2		b) Long overhaul (provisional)	m <sup>3</sup> .km			Rate Only
<b>SABS 1200 DA</b>		<b>EXCAVATIONS FOR CONCRETE STRUCTURES, MANHOLES , ETC.</b>				
B.8	8.3.1(b)	Excavate in all materials, use for backfill and compact or dispose as ordered	m <sup>3</sup>	163		
B.9	8.3.1(c.1)	Extra-over for excavation in intermediate material	m <sup>3</sup>	49		
B.10	8.3.1(c.2)	Extra-over for excavation in hard rock	m <sup>3</sup>	65		
<b>SABS 1200 L</b>		<b>MEDIUM PRESSURE PIPELINES</b>				
B.11	8.2.1	<u>Supply, Lay, and Bed Pipes Complete with Couplings</u>				
B.11.1		110mm diameter Upvc Class 34 (Heavy Duty) sewer pipes.	m			Rate Only
B.11.2		160mm diameter Upvc Class 34 (Heavy Duty) sewer pipes.	m	3030		
B.11.3		200mm diameter Upvc Class 34 (Heavy Duty) sewer pipes.	m			Rate Only
B.12	8.2.2	<u>Extra-over item B.11 for the supplying, laying, bedding of specials complete with couplings:</u>				
B.12.1		<u>All 110mm diameter Class 36 Upvc structured sewer pipe:</u>				
B.12.1.1		Junction plain/ access 45°/90°	No.			Rate Only
B.12.1.2		Bend - plain 11.25°	No.			Rate Only
B.12.1.3		Bend - plain 22.5°	No.			Rate Only
B.12.1.4		Bend - plain 45°	No.			Rate Only
B.12.1.5		Bend -plain 90°	No.			Rate Only
B.12.1.6		Stop ends PVC	No.			Rate Only
<b>SECTION B CARRIED FORWARD TO NEXT PAGE</b>						



SECTION B - SEWER RETICULATION - continued						
ITEM NO	PAYMENT REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>SECTION B BROUGHT FORWARD FROM PREVIOUS PAGE</b>						
B.13	8.2.2	<u>Extra-over item B.11 for the supplying, laying, bedding of specials complete with couplings:</u>				
B.13.1		<u>All 160mm diameter Class 36 Upvc structured sewer pipe:</u>				
B.13.1.1		Junction plain/ access 45°/90°	No.			Rate Only
B.13.1.2		Bend - plain 11.25°	No.			Rate Only
B.13.1.3		Bend - plain 22.5°	No.			Rate Only
B.13.1.4		Bend - plain 45°	No.			Rate Only
B.13.1.5		Bend -plain 90°	No.			Rate Only
B.13.1.6		Stop ends PVC	No.			Rate Only
B.14	8.2.2	<u>Extra-over item B.11 for the supplying, laying, bedding of specials complete with couplings:</u>				
B.14.1		<u>All 200mm diameter Class 36 Upvc structured sewer pipe:</u>				
B.14.1.1		Junction plain/ access 45°/90°	No.			Rate Only
B.14.1.2		Bend - plain 11.25°	No.			Rate Only
B.14.1.3		Bend - plain 22.5°	No.			Rate Only
B.14.1.4		Bend - plain 45°	No.			Rate Only
B.14.1.5		Bend -plain 90°	No.			Rate Only
B.14.1.6		Stop ends PVC	No.			Rate Only
	<b>SABS 1200 LB</b>	<b>BEDDING PIPES</b>				
B.15		<u>Concrete: (20MPa/19mm):</u>				
B.15.1	8.2.3	Concrete bedding cradle for sewer pipes in marsh area	m³			Rate Only
B.15.2	8.2.4	Encasement of sewer pipes where directed by the Engineer	m³			Rate Only
	<b>SABS 1200 LD</b>	<b>SEWERS</b>				
B.16	8.2.8	Anchor/thrust blocks 25Mpa Concrete	m³	34		
B.16.1	8.2.3	<u>Manholes:</u>				
B.16.2		Pre-cast (1000mm Dia) manhole base sections, spacer rings, spacer slabs, lid, reducer slabs complete to specifications on Typical DWG, Complete with type 4A (Medium Duty) cover and frame, for depths over and upto:				
<b>SECTION B CARRIED FORWARD TO NEXT PAGE</b>						

SECTION B - SEWER RETICULATION - continued						
ITEM NO	PAYMENT REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>SECTION B BROUGHT FORWARD FROM PREVIOUS PAGE</b>						
B.16.2.1		0,5m to 1,0m	No.	4		
B.16.2.2		1,0m to 1,5m	No.	21		
B.16.2.3		1,5m to 2,0m	No.	29		
B.16.2.4		2,0m to 2,5m	No.	18		
B.16.2.5		2,5m to 3,0m	No.	11		
B.16.2.6		3,0m and over	No.			Rate Only
B.16.2.7		Spacer slabs	No.			Rate Only
B.16.3	8.2.4	Extra-over for above item for Type 1A (Heavy Duty) cover and frame in road areas	No.	2		
B.16.3.1		<u>Extra-over for above item for construction of backdrops and ramps including extra excavation, formwork, joints, etc., to Typical Dwg for depths over and upto:</u>				
B.16.3.2		0,0m to 1,0m	No.	2		
B.16.3.3		1,0m to 2,0m	No.	2		
B.16.3.4		2,0m to 3,0m	No.	2		
		<b>SABS 1200 LD EXISTING SEWER</b>				
B.15	8.2.11	Extra over item for the construction of a new manhole on the existing sewer line	No.	2		
B.16	8.2.11	Break into existing sewer line and reinstate	No.	1		
B.17		Exavate and remove existing pipes, stockpile at designated area.	m	50		
B.18		Removal of existing precast sewer manhole rings, stock at designated area on site for reuse at a later stage.	No.			Rate Only
		<b>TESTING OF SEWERS</b>				
B.19		Random water tightness of manholes as specified by SABS 1200 LD	No.	50		
B.20		Air test of sewers as specified by SABS 1200 LD	m	3805		
		<b>SABS 1200 LF ERF CONNECTIONS (Sewer)</b>				
B.21		Excavate in all materials for erf connections	m <sup>3</sup>	930		
B.22		<u>Extra-over item B.1.2 for excavation in:</u>				
B.22.1		Intermediate material	m <sup>3</sup>	279		
<b>SECTION B CARRIED FORWARD TO NEXT PAGE</b>						
<b>SECTION B - SEWER RETICULATION - continued</b>						

ITEM NO	PAYMENT REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>SECTION B BROUGHT FORWARD FROM PREVIOUS PAGE</b>						
B.22.2		Hard rock Excavation	m <sup>3</sup>	372		
B.23		<u>Erf connections (including additional excavation, backfilling, bedding, supply and lay of Y-junction, bend, connection pipe, stopper, up to 1.5m inside erf boundary. All connection pipes to be 110mm diameter Class 34 uPVC</u>				
B.23.1		Type one connection 3-4m long	No.			Rate Only
B.23.2		Type two connection 10-20m long	No.	155		
B.24	8.2.4.	<u>Reinstate road surfaces complete with all courses:</u>				
B.24.1		Surface treatment, Asphalt thickness of 25mm	m <sup>2</sup>	60		
B.24.2		Roadbed 150mm thick	m <sup>2</sup>	60		
B.24.3		Sub-base 150mm thick and stabilized with 3% OPC cement	m <sup>2</sup>	60		
B.24.4		Base 150mm thick and stabilized with 3% OPC cement	m <sup>2</sup>	60		
B.24.5		Remove and relay mountable kerbing	m	24		
B.25		<b>TOP STRUCTURES</b>				
B.25.1		<b>Top structure, complete as per typical drawings, including site clearance, excavation, foundations, surface bed, structure, toilet, basin ect. Excluding sewer and water connection.</b>	No.	155		
B.26		<b>WATER CONNECTIONS</b>				
B.26.1		Excavate in all materials for trenches, backfill, compact and dispose of excess material for 25mm diameter HDPE pipes,	m <sup>3</sup>	720		
B.26.2		<u>High Density Polystyrene Piping (HDPE), PE63 (TYPE IV), Class 16, dimensions to SABS 533 and SABS ISO 4427:1196</u>				
B.26.2.1		25mm diameter HDPE pipes.	m	3000		
B.26.2.2		Supply, delivery and installation of fittings and compression couplings for water connection to top structure, refer to drawing,	No.	155		
<b>SECTION B CARRIED FORWARD TO SUMMARY</b>						

## DIPALESNG LOCAL MUNICIPALITY

### CONSTRUCTION OF SEWER RETICULATION AND TOILET TOP STRUCTURES IN SIYATHEMBA EXT 5 & 6

#### SUMMARY OF BILL OF QUANTITIES

SECTION	DESCRIPTION	AMOUNT
A	PRELIMINARY AND GENERAL	
B	SEWER RETICULATION	
	<b>SUBTOTAL</b>	
	<b>PLUS 10% CONTINGENCIES</b> (This amount is under sole control of the Engineer, subject to client approval)	
	<b>SUBTOTAL</b>	
	PLUS 15% VALUE ADDED TAX	
	<b>TOTAL CARRIED FORWARD TO FORM OF OFFER</b>	

# DIPALESENG LOCAL MUNICIPALITY

## CONSTRUCTION OF SEWER RETICULATION AND TOILET TOP STRUCTURES IN SIYATHEMBA EXT 5 & 6

### C3 Scope of Work

#### 1 DESCRIPTION OF THE WORKS

##### 1.1 Employer's objectives

The employer's objective is to construct a sewer network system, stand connections with toilet top structures complete with internal plumbing and accessories to service 155 stands in Siyathemba Extensions 5 and 6.

##### 1.2 Overview of the works

- New Toilets - 155 households  
Supply and installation of top structures for toilets; supply and installation of complete toilet accessories; supply and installation of toilets water and sewer pipe work for flushing purposes.
- Supply and installation of 110mm diameter uPVC pipe, 775 m in length for internal sewer reticulation;
- Supply and installation of 160mm diameter uPVC reticulation sewer, 2.3 km in length for sewer reticulation; and
- Supply and installation of 25mm diameter HDPE pipe, 3000 m in length for toilets water connections.

##### 1.3 Extent of the works

- Setting out of the works
- Exposing of existing services
- Excavation of trenches for pipelines
- Construction of bedding layer
- Installation of pipelines
- Installation of pipe fittings and couplings
- Construction of fill blanket layer
- Installation of stand connections
- Installation of precast concrete manholes
- Backfilling of trenches
- Construction of sewer top structures, complete with fittings and accessories
- Testing and commissioning of pipes.
- Finishing off of the site

Contract

C3/1

Part C3: Scope of work

Scope of work

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

#### 1.4 Location of the works

The sites are located within the jurisdictional boundaries of Dipaleseng Local Municipality in the townships of Siyathemba Extensions 5 and 6, the outskirts of Mpumalanga. Access to the site may be obtained via the R51 national route to Balfour Town.

The geographical co-ordinates for the site are:

Siyathemba Extension 6:

Latitude : - 26° 39'22. 19"S

Longitude : - 28°36'16.29"E

Siyathemba Extension 5:

Latitude : - 26° 38'45. 06"S

Longitude : - 28°36'28.97"E

#### Locality Plan



## 1.5 Temporary works

Temporary works in terms of the contractor's method statement shall be priced within the bills of quantities. No claim will be entertained for temporary works defined by the contractor.

## 2 DRAWINGS

Refer to back of tender document for relevant drawings.

## 3 PROCUREMENT

### 3.1 Preferential procurement procedures

The works shall be executed in accordance with the conditions attached to preferences granted in accordance with the preferencing schedule.

#### 3.1.1 Requirements for the sourcing and engagement of labour

3.1.1.1 Labour required for the execution of all labour intensive works shall be engaged strictly in accordance with prevailing legislation and SANS 1914-5, Participation of Targeted Labour.

3.1.1.2 The published rate by Department of Labour must be used for the various categories of labour:

Description	Daily wage for 8-hour work day
Unskilled labour	
Semi skilled labour	
Skilled labour	
Supervisor	

Tasks established by the contractor must be such that:

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

3.1.1.4 The contractor must revise the time taken to complete a task whenever it is established that the time taken to complete a weekly task is not within the requirements of 3.1.1.3.

3.1.1.5 The Contractor shall, through all available community structures, inform the local community of the labour intensive works and the employment opportunities presented thereby. Preference must be given to people with previous practical experience in construction and / or who come from households:

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

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

- a) 50% women;

**Contract**

**C3/3**

**Part C3: Scope of work**

**Scope of work**

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6



- b) 25% youth who are between the ages of 18 and 25; and
- c) 2% on persons with disabilities.

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

#### **3.1.2.1 Definitions**

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

#### **3.1.2.2 Contract Participation Goal**

- 3.1.2.2.1 The minimum Contract Participation Goal applicable to the Contract is 30%.
- 3.1.2.2.2 The wages and allowances used to calculate the contract participation goal shall, with respect to both time-rated and task rated workers, comprise all wages paid and any training allowance paid in respect of agreed training programmes. The Person / days will be calculated in accordance with Appendix E.3: Contract Person / Days Calculation Format.

#### **3.1.2.3 Terms and conditions for the engagement of targeted labour**

- 3.1.2.3.1 Further to the provisions of clause 3.3.2 of SANS 1914-5, written contracts to be signed between the Contractor and workers will be in accordance with the pro-forma contract, attached as Appendix E.1.
- 3.1.2.3.2 Further to the provisions of clause 5.2 of SANS 1914-5, the Contractor will use the pro-forma attendance register, attached as Appendix E.2, to record the required information as per said clause.

#### **3.1.2.4 Variations to the SANS 1914-5**

None

#### **3.1.2.5 Training of targeted labour**

- 3.1.2.5.1 The Employer will appoint a service provider that will provide training to the workers. The Contractor need not provide for payment of said service provider.
- 3.1.2.5.2 Workers will receive 2 days of training for every 22 working days for the duration of the Contract.
- 3.1.2.5.3 An allowance equal to 100% of the task rate or daily rate shall be paid by the Contractor to workers who attend training, in terms of 3.1.2.5.
- 3.1.2.5.4 Records pertaining to the attendance, progress and performance of trainees will be kept by the Contractor and made available to the Employer.
- 3.1.2.5.5 The Contractor shall do nothing to dissuade targeted labour from participating in training programmes.



## **4. MANAGEMENT**

### **4.1 Recording of weather**

The Contractor shall erect an effective rainfall gauge on the site and record the daily rainfall figures in a book. Such book shall be handed to the employer's representative for his signature no later than 12 days after rain that is considered to justify an extension of time occurs.

### **4.2 Unauthorised persons**

The Contractor shall keep unauthorized persons from the works at all times. Under no circumstances may any person except guards be allowed to sleep on the building site.

### **4.3 Management meetings**

The Employer's Representatives and the Contractor shall hold meetings relating to the progress of the works at regular intervals and at other such times as may be necessary. The Contractor shall attend all site meetings and shall ensure that all persons under his jurisdiction are notified timeously of all site meetings should the Employer's Representatives require their attendance at such meetings.

The Contractor shall keep on site a set of minutes of all site meetings, daily records of resources (people and equipment employed), a site instruction book, a complete set of contract working drawings and a copy of the procurement document and make these available at all reasonable times to all persons concerned with the contract.

### **4.4 Forms for contract administration**

The Contractor shall be required to submit an updated contractor monthly report during site meetings, which will be used by the consultant to update the client.

### **4.5 Payment certificates**

The Contractor shall ensure that the VAT invoice required with each certificate is delivered timeously. The date of the certificate will be that of the date when the certificate is received by the employer.

The Contractor shall ensure timeous submission of all required documentation for the expedient processing of payment certificates, as required by the client, eg BAS entity forms, company registration details, VAT clearance certificates, etc. The Contractor is responsible for such documentation submission.

#### 4.6 EPWP labour intensive specification

##### Labour intensive competencies of supervisors and management staff

Contractors having a CIDB contractor grading designation of 5 CE and higher shall only engage supervisory and management staff in labour intensive works who have either completed, or for the period 1 April 2004 to 30 June 2006, are registered for training towards, the skills programme outlined in Table 1.

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

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

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

Contract

C3/6

Part C3: Scope of work

Scope of work

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

#### **4.7 Particular generic specifications**

The following applicable standardized and particular specifications are relevant to this contract:

SABS 1200 A - 1982: General  
SABS 1200 AB- 1982: Engineer's Office  
SABS 1200 C - 1980: Site Clearance  
SABS 1200 D - 1982: Earthworks  
SABS 1200 DB - 1982: Earthworks (Pipe trenches)  
SABS 1200 G- 1982: Concrete  
SABS 1200 GA- 1982: Concrete (Small Works)

#### **4.8 Specifications**

##### **PS 1. CONSTRUCTION PROGRAM**

The successful Tenderer shall submit a program, within the time stated in the appendix to the General Conditions of Contract in consultation with the Engineer, showing the order of procedure and method in which he proposes to carry out the Works. This program shall reflect the completion time as stated in the Appendix to the Tender and the program shall include a bar chart to show the proposed scheduling and methods of execution of the works and the resources to be allocated to each item or phase of the work.

Quantities proposed for execution each month and the anticipated cash flow based upon these quantities should be shown, due allowance being made for price escalation and retention monies. This program will be used to monitor progress. The successful Tenderer will therefore be held responsible to complete the Works within the stipulated time.

##### **PS 2. SITE FACILITIES AVAILABLE**

###### **PS 2.1 Water Supply**

Water is available. The Contractor must make his own arrangements with the Local Municipality. Construction water might be a problem.

###### **PS 2.2 Electrical Supply**

Electricity is available. The Contractor must make his own arrangement in this regard.

###### **PS 2.3 Location of Camp**

The Contractor's camp is to be located on a site acceptable to the Local Municipality. No workmen will be permitted to live in this camp.

##### **PS 3. SITE FACILITIES REQUIRED**

###### **PS 3.1 Sanitary Facilities**

A water closet must be supplied for the use of the Engineer and separate facilities must be supplied for the use by the Contractor's personnel.

###### **PS 3.2 Telephone**

Not necessary for the Engineer. The Contractor shall make his own arrangements.

**Contract**

**C3/7**

**Part C3: Scope of work**

**Scope of work**

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

**PS5.3 Location of construction camp**

A site will be pointed out to the Tenderers during the official Site Inspection for the Contractor to erect his construction camp.

**PS6 SITE FACILITIES REQUIRED**

**PS6.1 Laboratory Facilities**

A laboratory is not required on Site, but the Contractor shall make arrangements for the testing of materials required in terms of the Contract as and when ordered by the Engineer or as required by the Project Specifications.

**PS6.2 Sanitary Facilities**

The Contractor shall provide approved toilet facilities on site for all staff and shall remove the same on completion of the Contract and restore the site at his own cost and to the satisfaction of the Engineer.

**PS8 SPOIL MATERIAL**

No indiscriminate spoiling of material will be allowed. All suitable or surplus material shall be spoiled at sites to be indicated by the Engineer.

**PS9 SITE MEETINGS**

Site meetings and/or site inspections will be held twice every month to evaluate the progress and to discuss matters pertaining to the Contract. The Contractor or his authorised representative shall attend such meetings on the site with a representative of the Employer and Engineer, at dates and times to be determined by the Employer.

**PS10 SAFETY OF WORKMEN**

The safe conduct of the Works shall be a primary consideration, the entire Works shall be carried out in conformity with all the applicable statutory regulations, and requirements and Tenderers must price their Tenders accordingly.

The Contractor shall provide and maintain in readiness on the Site, all equipment, and materials necessary to render first aid in case of accidents or other emergencies. The Contractor shall also assign to the Works and designate for this purpose, trained employees who are able to render first aid.

**PS11 ABNORMAL RAINFALL**

"It is anticipated that the Contractor will lose working time due to inclement weather over the duration of the contract period. The Contractor is to reconcile any delays, due to inclement weather or resulting conditions with the Engineers Representative within 7 days after incurring such delays. Should the total number of reconciled working days lost, over the duration of the Contract, exceed the anticipated number or working days lost as stipulated in the Appendix to Form of Tender, an extension of time for completion will be granted equal to the working days lost in excess of the anticipated number of days stipulated".

## **PS12 PROTECTION OF BEACONS**

The Contractor shall take special precautions to protect any permanent beacon such as property beacons, reference beacons, height beacons, etc., irrespective of whether the referred to beacons were placed before or during the construction period.

Should any of these beacons be disturbed by the Contractor or any person in his employment or under his control the Contractor will at his own cost arrange for the re-establishment of the damaged or disturbed beacon by a registered land surveyor.

The relevant survey information and documentation shall be forwarded to the office of the Engineer for final approval and processing.

The Contractor's attention is drawn to clause 35(i) of the Survey Act No 9 of 1937 (as amended).

## **PS13 SCALING FROM DRAWINGS**

Only dimensions shown on the Drawings, or calculated there-from, may be used for the construction of the Works and no dimension may be scaled without the written instruction of the Engineer.

## **PS14 CONTRACTOR'S EMPLOYEES**

The Contractor shall employ local labourers for the work under this contract and shall fully acquaint himself and comply with all local laws, statutes, and bylaws in this respect.

## **PS15 COST OF TEST SPECIMENS AND TESTS**

It is deemed that the Contractor has made provision in his Tender for all such services and tests that are required from him. It is the duty of the Contractor to, at his own cost, and by means of the necessary tests, to prove to the Engineer that the Works and compaction prescribed, comply with the Specification.

## **PS16 EXAMINATION OF WORK BEFORE COVERING UP**

The Contractor shall give the Engineer a reasonable time to accommodate examinations in his programme, in which case a time for inspection can be agreed upon.

## **PS17 NOTICE TO BE GIVEN**

If the Engineer attends with the purpose of examining any part or materials of the Works at the time and date as agree upon with the Contractor, and it is found that the Works or materials are not yet ready for inspection, the Contractor shall be responsible for the costs of such a visit by the Engineer.

## **PS18 WORKMEN'S COMPENSATION**

The Contractor shall provide proof, that he has paid all contributions required in terms of the provisions of the Workmen's Compensation Act (Act No. 30 of 1941, as amended), within 30 days of the Commencement Date.

## **PS19 CARE OF WORKS, DAMAGE, INJURY, AND INSURANCE**

If any insurance claim arises, the Contractor shall immediately proceed with the necessary repairs after the damage has been established by the assessor, irrespective of whether the claim has been settled. No extension of time shall be granted if there is a waiting period for the settlement of the claim and all costs or losses which the Contractor may have regarding lost time, shall be deemed as covered by the insurance claim, or shall be borne by the Contractor himself.

**Contract**

**C3/9**

**Part C3: Scope of work**

**Scope of work**

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

## **PS20 EXTENSION OF TIME DUE TO SHORTAGE OF MATERIAL**

Add the following Sub-Clause: If, during the preparation of his tender or during construction, the Contractor bases his unit prices on prices obtained from specific material or specific suppliers, it will be accepted that the Contractor has ascertained that such material shall be available on a continuous basis for execution of the contract.

No extension of time shall be granted if material cannot be obtained locally, but is available from other sources in the country, and no additional remuneration shall be granted for increased costs due to obtaining material from sources in other parts of the country.

If suppliers cannot adhere to the quoted delivery dates, any delays resulting from this shall be considered as a matter between the supplier and the Contractor. Extension of time could be granted under such conditions after complete proofs have been submitted to and accepted by the Engineer, but without any financial implications for the Employer.

## **PS21 VALUE ADDED TAX (VAT)**

Value added tax (VAT) shall be calculated on each payment certificate, but it shall remain the responsibility of the Contractor to issue a tax invoice for the certified amount. The Contractor is responsible for the payment of VAT.

## **PS22 MAKING GOOD OF DEFECTS**

If it is deemed necessary in the opinion of the Engineer, the defects liability period after repairs can be extended for a further period of twelve months or for a period to the discretion of the Engineer, as regards the relevant part of the works that is made good.

## **PS23 FEATURES REQUIRING SPECIAL ATTENTION**

### **PS23.1 PROTECTION OF TRENCHES, PIPELINES, AND APPURTENANT WORKS**

Trenches shall at all times be effectively protected against the ingress of storm-water and in particular also valve chambers and manholes as well as structures at road crossings. Pipelines shall be positively protected against the ingress of dirt, foreign matter, storm-water and seepage water. The necessary steps in this regard include the following:

Sealing off pipe and branch ends with tightly sealing covers of strong plastic or other suitable material before loading for delivery to Site. These covers shall be fully maintained until the moment of jointing of the relevant pipe end or branch.

Open pipe ends in the trench shall be sealed off whenever work is stopped and shall be kept sealed off until closure by further pipe laying is affected. These sealing covers shall be tight sealing and sufficiently strong in fibre strength and attachment to the pipe, to withstand a water pressure corresponding to a head of 3m.

Air valves shall be consigned to Site sealed in strong transparent plastic bags which bags shall only be removed at the moment of installation.

Seepage water in the trench shall not be allowed to accumulate and shall be dealt with forthwith as provided for in Specification SABS 1200DB.

### **PS23.2 OPENING UP OF EXISTING SERVICES**

Wherever connection to the existing pipes is to be made, the existing pipes shall be opened up by means of hand excavation under the direction of the Resident Engineer.

**Contract**

**C3/10**

**Part C3: Scope of work**

**Scope of work**

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

#### 4.9 Variations to standard specifications

##### **PSA: SABS 1200 A – GENERAL**

###### **PSA 1 QUALITY AND SAMPLES (Subclause 3.1)**

Add to the Subclause:

All materials shall comply with the requirements of the South African Bureau of Standards, and shall bear the official standardization mark. Where SABS standard does not exist for a certain material, or a material does not bear the official standardization mark, the Engineers approval of such material must be gained before use thereof.

###### **PSA 2 CONTRACTOR'S OFFICE AND STORES (Subclause 4.2)**

Add to the Subclause:

Neither housing nor shelters will be provided for the contractor's employees, and the Contractor shall make his own arrangements to house his employees and transport them to the Site.

###### **PSA 3 APPROVED LABORATORIES (Subclause 7.2 of SABS 1200A General)**

It is not required for the Contractor to supply a laboratory for testing materials on site, and he may submit the name and credentials of a local commercial laboratory, for approval by the Engineer if he so requires.

##### **PSAB: SABS 1200 AB – ENGINEERS OFFICE**

###### **PSAB 1 SURVEY ASSISTANT AND EQUIPMENT**

The Contractor will not be required to make any survey equipment available specifically for the use of the Engineer.

The Contractor will however make 2 survey assistants available to the Engineer as and when required, as well as a theodolite and/or level plus accessories.

###### **PSAB 2 FACILITIES FOR ENGINEER**

No specific offices are required for the Engineer on this contract. The contractor is however expected to have enough space for the holding of site meetings.

**PSC: SABS 1200 C – SITE CLEARANCE**

**PSC 1 DISPOSAL OF SURPLUS MATERIAL (Subclause 3.1)**

The disposal site is at the discretion of the Contractor but with approval from the Engineer.

**PSDB: SABS 1200 DB – EARTHWORKS (PIPE TRENCHES)**

**PSDB 1 PRECAUTIONS (Subclause 5.1)**

Add the following to Subclause 5.1.1 General:

Delete the first four lines and substitute the following:

The Contractor or his agent or representative appointed in writing shall be deemed to be and shall be both the “excavator” and “a person who is competent to pronounce on the safety” of all bracing and shoring as set out in regulation 13 (demolition and excavation) of the General Safety Act No 6 of 1983 as published in the Government Gazette no 10252 Volume 251 page 30 of May 1986 (as amended).

**PSDB 2 PROGRAMMING OF TRENCH EXCAVATION**

The Contractor shall program his works in such a way that excavation and backfilling for all types of trenches will be completed before the construction of the subbase layer.

**PSDB 3 BACKFILLING (Subclause 3.5b and 5.7.2)**

All trenches that cross the roadway will be provided with the material and compacted to the specification as per the original layerworks of the road that has been crossed.

**PSDB 4 BEDDING CLASS (Clauses 8.2.3, 8.3.2a & 8.2.3b)**

Unless shown otherwise on the drawings all bedding shall be of a class B type for concrete and flexible pipes as per section 1200 DB of SABS 1200

**PSDB 5 TRANSPORT FOR EARTHWORKS AND TRENCHES (Subclause 5.6.8)**

Add the following to clause 5.2.6.1 of SABS 1200 DA:



- c) Notwithstanding anything stated to the contrary, the freehaul distance on this contract will be taken as 5,0km.

**PSDB 6 EXCAVATION (Subclause 5.4)**

Add to the subclause:

Excavation through surfaced roads is to be carried out in such a way that the edge of the surfacing forms a straight and true line after excavation.

**PSDB 7 BARRICADING AND LIGHTING (Subclause 5.1.1.1)**

Delete the Subclause and substitute the following:

In terms of the Occupational Health and Safety Act and Regulations (as amended), every excavation that is accessible to the public or that is adjacent to a public road or thoroughfare, or by which the safety of persons may be endangered, shall be

**a) For Excavations Other Than Trenches:**

- i) Adequately protected by a barrier or fence at least one metre high erected as close to the excavation as is practicable; and
- ii) Provided with red warning lights or any other visible boundary indicators at night or when visibility conditions are poor; and
- iii) Inspected by watchmen employed by the Contractor to ensure that barricades and lights are effective at all times.

**b) For Trench Excavations**

- i) Adequately protected by means of at least two horizontal double sided 'red/white' Chevron Tapes approved by the Engineer. The tapes shall be stretched tightly between suitable supports along both sides and ends of the excavation at levels approximately 0,45 m and 1,25 m above the ground. The supports shall consist of poles or iron standards securely planted in solid ground at not more than 10 m centres so as to enclose the spoil and the excavations.
- ii) Provided with red warning light or any other visible boundary indicators at night or when visibility conditions are poor. The spacing between lamps along an open trench shall be not greater than 10 metres. All lamps shall be kept in good order and continuously lit from dusk to

dawn and the Contractor shall employ a night watchman to ensure that the lamps remain lit.

- iii) Provided with a sufficient number of steel plates at least 2 m x 1,20 m x 8 mm thick which may be laid across open excavated trenches to provide bridges for vehicles along the route of the work as and where may be considered necessary by the Engineer. The Contractor shall make such plates available on Site at all times.
- iv) Provided with protection for a private vehicular or a pedestrian crossing over an open trench. Such crossings shall be protected on each side by a stout two rail timber fence, at least 1 m high, consisting of 150 mm x 75 mm timber verticals set 0,50 m into the ground, with 75 mm x 50 mm rails securely nailed to them. Where timber is used for bridges, it must be battened underneath to prevent tipping. At least 4 lamps must be provided at each crossing.
- v) Provided with warning barriers in addition to the barricading and light requirements set out above, where construction is in, or across, public roads. The barriers shall comprise 225 mm x 40 mm timbers firmly fixed to heavy supports. The barriers shall be located at least 20 m distance from the obstruction in the directions of all approaching traffic; and the requisite ROAD CLOSED, DEVIATION and other signs shall be prominently displayed well in advance of the work. All such signs and positioning thereof shall comply with the requirements set out in the S.A. Road Traffic Signs Manual.  
Where only a portion of the roadway is closed suitable empty drums or pipes painted white shall be placed along the traffic side at distances not more than 20 m apart.  
Lamps in good order shall be provided one to each drum or pipe and at least five to each barricade, in addition all poles and warning notices shall be clearly marked by means of approved reflecting material.
- vi) Regularly inspected by watchmen employed by the Contractor to ensure that barricades, bridges, warning barriers and lights are effective at all times.

**PSGA SABS 1200 GA – CONCRETE (SMALL WORKS)**

**PSGA 1 CEMENT (Subclause 3.2)**

Unless written consent to the contrary is received from the Engineer, all cement used on the contract will be Ordinary Portland cement (CEM II 42,5).

**Contract**

**C3/14**

**Part C3: Scope of work**

**Scope of work**

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

**PSGA 2 FINISH (Subclause 4.4.2)**

All exposed concrete surfaces shall be floated off to the necessary gradients and planes, and while still green, will be finished off to a smooth surface with a wooden trowel.

**PSGA 3 STRENGTH CONCRETE (Subclause 5.4.1.5)**

The strength concrete necessary for the different portions of the work is as follows:

GRADE	ITEM
20/19	All manhole box covers and bases, thrust blocks
20/19	Encasement of pipes
20/19	Reinstatement of driveways

Should concrete for the works be mixed on site, the Contractor is to provide the Engineer with a mix design carried out by an approved laboratory for approval. The Contractor is also to furnish the Engineer with the methodology and equipment to be used for the mixing of concrete for approval by the Engineer. Six tests cubes are to be taken prior to the first concrete pour, and the 7-day result will be utilized as a first indication of suitability of the mix design. Approval will however be based on the 28 day strength.

**PSL: SABS 1200 L – MEDIUM PRESSURE PIPELINES**

**PSL 1 Piping**

All pipes to be used are Freeflo Solid Wall Sewer and Drain Pipes, Class 34-Heavy Duty (300kPa pipe stiffness), SANS 791:2002 specification.

**PSL 2 DEPTHS AND COVER (Subclause 5.1.4)**

Add the following Subclause:

5.1.4.5 Cover depths for the pipe line will be as specified on the long section. Where cover is less than 600mm, provision has been made for encasing of pipes.

**PSL 3 LAYING – GENERAL (Subclause 5.1.1)**

Add the following to Subclause 5.1.1:

"Pipelaying shall not be carried out in trenches which have not been approved by the Engineer. The total length of sewer line which has not been tested and approved may not exceed 500m."

**PSLB: SABS 1200 - BEDDING (PIPES)**

**PSLB 1      SELECTED FILL MATERIAL (Subclause 3.2)**

In the second line delete "PI not exceeding 6" and substitute with "PI not exceeding 10".

**PSLB 3      SUITABLE MATERIAL AVAILABLE FROM TRENCH EXCAVATIONS  
(Subclause 3.4.1)**

Delete the Subclause and substitute the following:

The excavation of a pipe trench shall comply with the requirements of Subclause 5.4 of SABS 1200 DB and the provisions of Subclause 3.7 of SABS 1200 DB (in terms of which, for the purpose of providing bedding materials, the Contractor is not required to use selective methods of excavating) shall apply. Nevertheless the Contractor shall take every reasonable precaution to avoid burying or contaminating material that is suitable and is required for bedding or covering the pipeline. If, in the opinion of the Engineer, bedding material can be produced from the excavated material, the Contractor, if so ordered by the Engineer, shall screen or otherwise treat (as Scheduled) the excavated material in order to produce material suitable for bedding (see also Subclause 8.1.2).

**PSLB 4      STONE BEDDING (New Subclause 5.2.5)**

Add new Subclause:

Where ordered by the Engineer, special drains consisting of a 40 mm thickness of 6mm to 20mm graded stone extending the full width of the trench shall be provided below the bedding to the pipes. The excavation for these drains will be measured in cubic metres at the contract rate applying to unsuitable excavation below the bottom of the trench. The stone filling will be paid for per cubic metre. All measurements in this connection will be to a width equal to the base widths and depths ordered.

**PSLB 5      SELECTED FILL BLANKET (Subclause 5.3(b))**

Delete the words "200 mm" from title.

**PSLB 6 CONCRETE CASING TO PIPES (Subclause 5.4)**

Add to the Subclause:

Where concrete encasing is ordered by the Engineer it is to be of grade 20/19 concrete with a minimum thickness of 150 mm above the top of the pipe.

**PSLB 7 MOISTURE CONTENT AND DENSITY (Subclause 6.1)**

Add to the Subclause:

The permissible deviations applicable are to be to Degree of Accuracy II.

**PSLB 8 VOLUME OF BEDDING MATERIALS (Subclause 8.1.3)**

Add to the Subclause:

(c) The volume of bedding material shall be measured nett i.e. the volume of the pipe is to be deducted.

**PSLB 9 FREEHAUL (Subclause 8.1.6)**

The freehaul that applies to selected granular and selected fill material shall be 5km.

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**5 ANNEXURES**

- 5.1 Occupational Health and Safety Regulations (*ANNEXURE A*)
- 5.2 Standard Occupational Health and Safety Specification (*ANNEXURE B*)
- 5.3 Environmental Management Plan (*ANNEXURE C*)

**Contract**

**C3/17**

**Part C3: Scope of work**

**Scope of work**

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

# DIPALESENG LOCAL MUNICIPALITY

## CONSTRUCTION OF SEWER RETICULATION AND TOILET TOP STRUCTURES IN SIYATHEMBA EXT 5 & 6

### C4 Site Information

#### C4.1: LOCALITY PLAN

The Siyathemba Ext 5 and Ext 6, Siyathemba Extension 5 and 6 community is located in Balfour, Siyathemba a township towards the West South section of Siyathemba.

The town is located at the following coordinates:

Siyathemba Extension 6:

Latitude : - 26° 39'22. 19"S  
Longitude : - 28°36'16.29"E

Siyathemba Extension 5:

Latitude : - 26° 38'45. 06"S  
Longitude : - 28°36'28.97"E



# **ANNEXURE A**

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## **Occupational Health and Safety Regulations**

GOVERNMENT NOTICE

DEPARTMENT OF LABOUR  
No. R. ....

..... 2003

**OCCUPATIONAL HEALTH AND SAFETY ACT, 1993**

***CONSTRUCTION REGULATIONS, 2003***

The Minister of Labour has under section 43 of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), after consultation with the Advisory Council for Occupational Health and Safety, made the regulations in the Schedule.

**SCHEDULE**

Definitions

1. In these Regulations any word or expression to which a meaning has been assigned in the Act shall have the meaning so assigned and, unless the context otherwise indicates—

“**agent**” means any person who acts as a representative for a client in the managing the overall construction work.

“**angle of repose**” means the steepest angle of a surface at which a mass of loose or fragmented material will remain stationary in a pile on a surface, rather than sliding or crumbling away;

“**batch plant**” means machinery, appliances or other similar devices that are assembled in such a manner so as to be able to mix materials in bulk for the purposes of using the mixed product for construction work;

“**client**” means any person for whom construction work is performed;

“**competent person**” in relation to construction work, means any person having the knowledge, training and experience specific to the work or task being performed: Provided that where appropriate qualifications and training are registered in terms of the provisions of the South African Qualifications Authority Act, 1995 (Act No. 58 of 1995), these qualifications and training shall be deemed to be the required qualifications and training;

“**construction work**” means any work in connection with—

(a) the erection, maintenance, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure;

(b) the installation, erection, dismantling or maintenance of a fixed plant where such work includes the risk of a person falling;

(c) the construction, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system or any similar civil engineering structure; or

(d) the moving of earth, clearing of land, the making of an excavation, piling, or any similar type of work;

“**construction vehicle**” means a vehicle used for means of conveyance for transporting persons or material or both such persons and material, as the case may be, both on and off the construction site for the purposes of performing construction work;

“**contractor**” means an employer, as defined in section 1 of the Act, who performs construction work and includes principal contractors;



**“design”** in relation to any structure includes drawings, calculations, design details and specifications;

**“designer”** means any person who—

- (a) prepares a design;
- (b) checks and approves a design;
- (c) arranges for any person at work under his control (including an employee of his, where he is the employer) to prepare a design, as well as;
- (d) architects and engineers contributing to, or having overall responsibility for the design;
- (e) build services engineers designing details for fixed plant;
- (f) surveyors specifying articles or drawing up specifications;
- (g) contractors carrying out design work as part of a design and build project;
- (h) temporary works engineer designing formwork and false work; and
- (i) Interior designers, shop-fitters and landscape architects.

**“ergonomics”** means the application of scientific information concerning humans to the design of objects, systems and the environment for human use in order to optimise human well-being and overall system performance;

**“excavation work”** means the making of any man-made cavity, trench, pit or depression formed by cutting, digging or scooping;

**“explosive powered tool”** means a tool that is activated by an explosive charge and that is used for driving bolts, nails and similar objects for the purpose of providing fixing;

**“fall prevention equipment”** means equipment used to prevent persons from falling from an elevated position, including personal equipment, body harness, body belts, lanyards, lifelines or physical equipment, guardrails, screens, barricades, anchorages or similar equipment;

**“fall arrest equipment”** means equipment used to arrest the person in a fall from an elevated position, including personal equipment, body harness, lanyards, deceleration devices, lifelines or similar equipment, but excludes body belts;

**“fall protection plan”** means a documented plan, of all risks relating to working from an elevated position, considering the nature of work undertaken, and setting out the procedures and methods to be applied in order to eliminate the risk;

**“hazard identification”** means the identification and documenting of existing or expected hazards to the health and safety of persons, which are normally associated with the type of construction work being executed or to be executed;

**“health and safety file”** means a file, or other record in permanent form, containing the information required as contemplated in these regulations;

**“health and safety plan”** means a documented plan which addresses hazards identified and includes safe work procedures to mitigate, reduce or control the hazards identified;

**“health and safety specification”** means a documented specification of all health and safety requirements pertaining to the associated works on a construction site, so as to ensure the health and safety of persons;

**“material hoist”** means a hoist used to lower or raise material and equipment, and includes cantilevered platform hoists, mobile hoists, friction drive hoists, scaffold hoists, rack and pinion hoists and combination hoists;

**“medical certificate of fitness”** means a certificate valid for one year issued by an occupational health practitioner, issued in terms of these regulations, whom shall be registered with the Health Professions Council of South Africa;

**“method statement”** means a written document detailing the key activities to be performed in order to reduce as reasonably as practicable the hazards identified in any risk assessment;

**“mobile plant”** means machinery, appliances or other similar devices that is able to move independently, for the purpose of performing construction work on the construction site;

**“National Building Regulations”** means the National Building Regulations made under section 17(1) of the National Building Regulations and Building Standards Act, 1977 (Act No.103 of 1977), and published under Government Notice No. R.1081 of 10 June 1988, as amended;

**“person day”** means one individual carrying out construction work on a construction site for one normal working shift;

**“principal contractor”** means an employer, as defined in section 1 of the Act who performs construction work and is appointed by the client to be in overall control and management of a part of or the whole of a construction site;

**“professional engineer or professional certificated engineer”** means any person holding registration as either a Professional Engineer or Professional Certificated Engineer under the Engineering Profession Act, 2000 (Act No. 46 of 2000);

**“professional technologist”** means any person holding registration as a Professional Technologist under the Engineering Profession Act, 2000 (Act No. 46 of 2000);

**“provincial director”** means the provincial director as defined in regulation 1 of the General Administrative Regulations under the Act;

**“risk assessment”** means a programme to determine any risk associated with any hazard at a construction site, in order to identify the steps needed to be taken to remove, reduce or control such hazard;

**“roof apex height”** means the dimensional height in metres measured from the lowest ground level abutting any part of a building to the highest point of the roof;

**“SABS 085”** means the South African Bureau of Standards’ Code of Practice entitled

**“The Design, Erection, Use and Inspection of Access Scaffolding”;**

**“SABS 0400”** means the South African Bureau of Standards, Code of Practice for the application of the National Building Regulations;

**“SABS EN 1808”** means the South African Bureau of Standards’ Standard Specification entitled: **“Safety requirements on suspended access equipment – Design calculations, stability criteria, construction-tests”;**

**“SABS 1903”** means the South African Bureau of Standards’ Standard Front-end Specification entitled: **“Safety requirements on suspended access equipment – Design calculations, stability criteria, construction-tests”;**

**“scaffold”** means any temporary elevated platform and supporting structure used for providing access to and supporting workmen or materials or both;

**“shoring”** means a structure such as a hydraulic, mechanical or timber/steel shoring system that supports the sides of an excavation and which is intended to prevent the cave-in or the collapse of the sides of an excavation, and “shoring system” has a corresponding meaning;

**“structure”** means—

- (a) any building, steel or reinforced concrete structure (not being a building), railway line or siding, bridge, waterworks, reservoir, pipe or pipeline, cable, sewer, sewage works, fixed vessels, road, drainage works, earthworks, dam, wall, mast, tower, tower crane, batching plants, pylon, surface and underground tanks, earth retaining structure or any structure designed to preserve or alter any natural feature, and any other similar structure;
- (b) any formwork, false work, scaffold or other structure designed or used to provide support or means of access during construction work; or

- (c) any fixed plant in respect of work which includes the installation, commissioning, decommissioning or dismantling and where any such work involves a risk of a person falling two metres or more;

“**suspended platform**” means a working platform suspended from supports by means of one or more separate ropes from each support;

“**the Act**” means the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993);

“**tunnelling**” means the construction of any tunnel beneath the natural surface of the earth for a purpose other than the searching for or winning of a mineral;

Scope of application

- 2.(1) These Regulations, shall apply to any persons involved in construction work.
- (2) The provisions of sub regulation 4.(1)(a) shall not be applicable where the construction work carried out is in relation to a single storey domestic building for a client who is going to reside in such dwelling upon completion thereof.
- (3) The provisions of sub regulations 4.(1)(a) and 5(1), 5.(3)(a) and 5(4) shall not be applicable where the construction work is in progress and more than fifty percent thereof has been completed at the date of promulgation of these regulations: Provided that an inspector may instruct accordingly that these Regulations shall be applicable.

#### **Notification of construction work**

- 3.(1) A principal contractor who intends to carry out any construction work shall—
- (a) before carrying out that work, notify the provincial director in writing of the construction work if it includes—
- (i) the demolition of a structure exceeding a height of 3 metres; or
  - (ii) the use of explosives to perform construction work; or
  - (iii) the dismantling of fixed plant at a height greater than 3m.
- (b) before carrying out that work, notify the provincial director in writing when the construction work—
- (i) exceeds 30 days or will involve more than 300 person days of construction work; and
  - (ii) includes excavation work deeper than 1m; or
  - (iii) includes working at a height greater than 3 metres above ground or a landing.
- (2) The notification to the provincial director contemplated in sub regulation (1) must be done on the form similar to ANNEXURE A to these regulations.
- (3) A principal contractor shall ensure that a copy of the completed form contemplated in sub regulation is kept on site for inspection by an inspector, client, client’s agent or employee.**

#### **Client**

- 4.(1) A client shall be responsible for the following in order to ensure compliance with the provisions of the Act—
- (a) to prepare a documented health and safety specification for the construction work, and provide any principal contractor who is making a bid or appointed to perform construction work for the client with the same;
- (b) to promptly provide the principal contractor and his or her agent with any information which might affect the health and safety of any person at work carrying out construction work;
- (c) to appoint each principal contractor in writing for the project or part thereof on a construction site;

- (d) to take reasonable steps to ensure that each principal contractor's health and safety plan as determined in sub regulation 5(1) is implemented and maintained on the construction site: Provided that the steps taken, shall include periodic audits at intervals mutually agreed upon between the client and principal contractor, but at least once every month;
  - (e) to stop any contractor from executing construction work which is not in accordance with the principal contractor's health and safety plan contemplated in sub regulation 5(1) for the site or which poses to be a threat to the health and safety of persons;
  - (f) to ensure that where changes are brought about, sufficient health and safety information and appropriate resources are made available to the principal contractor to execute the work safely;
  - (g) to ensure that every principal contractor is registered and in good standing with the compensation fund or with a licensed compensation insurer prior to work commencing on site; and
  - (h) to ensure that potential principal contractors submitting tenders, have made provision for the cost of health and safety measures during the construction process.
- (2) A client shall discuss and negotiate with the principal contractor the contents of the health and safety plan contemplated in sub regulation 5(1) and thereafter finally approve the health and safety plan for implementation.
  - (3) A client shall ensure that a copy of the principal contractor's health and safety plan is available on request to an employee, inspector or contractor.
  - (4) No client shall appoint a principal contractor to perform construction work, unless the client is reasonably satisfied that the principal contractor that he or she intends to appoint has the necessary competencies and resources to carry out the work safely.
  - (5) A client may appoint an agent in writing to act as his or her representative and where such an appointment is made, the responsibilities as are imposed by these regulations upon a client, shall as far as reasonably practicable apply to the person so appointed.
  - (6) No client shall appoint any person as his agent, unless the client is reasonably satisfied that the person he or she intends to appoint has the necessary competencies and resources to perform the duties imposed on a client by these regulations.

**Principal Contractor and Contractor**

- 5. (1) A principal contractor shall provide and demonstrate to the client a suitable and sufficiently documented health and safety plan, based on the client's documented health and safety specification contemplated in regulation 4(1)(a), which shall be applied from the date of commencement of and for the duration of the construction work.
- (2) A principal contractor shall take reasonable steps as far as is necessary to ensure co-operation between all contractors to enable each of those contractors to comply with the provisions of these regulations.
- (3) A principal contractor shall be responsible for the following in order to ensure compliance with the provisions of the Act —
  - (a) to provide any contractor who is making a bid or appointed to perform construction work for the principal contractor, with the relevant sections of the documented health and safety specification contemplated in regulation 4(1)(a) pertaining to the construction work which has to be performed;
  - (b) to appoint each contractor contemplated in paragraph (a) in writing for the part thereof of the project on a construction site;
  - (c) to take reasonable steps to ensure that each contractor's health and safety plan contemplated in sub regulation (4) is implemented and maintained on the construction site: Provided that the steps taken shall include periodic audits at intervals mutually agreed upon between the principal contractor and contractor(s), but at least once every month;

- (d) to stop any contractor from executing construction work which is not in accordance with the principal contractor's and/or contractor's health and safety plan for the site or which poses a threat to the health and safety of persons;
  - (e) to ensure that where changes are brought about, sufficient health and safety information and appropriate resources are made available to the contractor to execute the work safely;
  - (f) to ensure that every contractor is registered and in good standing with the compensation fund or with a licensed compensation insurer prior to work commencing on site; and
  - (g) to ensure that potential contractors submitting tenders have made provision for the cost of health and safety measures during the construction process.
- (4) A contractor shall provide and demonstrate to the principal contractor a suitable and sufficiently documented health and safety plan, based on the relevant sections of the principal contractor's health and safety specification contemplated in regulation 5(3)(a) provided by the principal contractor, which plan shall be applied from the date of commencement of and for the duration of the construction work.
  - (5) A principal contractor shall discuss and negotiate with the contractor the contents of the health and safety plan contemplated in sub regulation (4), and shall finally approve that plan for implementation.
  - (6) A principal contractor shall ensure that a copy of his or her health and safety plan contemplated in sub regulation (1), as well as the contractor's health and safety plan contemplated in sub regulation (4), is available on request to an employee, inspector, contractor, client or client's agent.
  - (7) Every contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the provisions of the Act and these Regulations, is opened and kept on site and made available to an inspector, client, client's agent or principal contractor upon request.
  - (8) A principal contractor shall hand over a consolidated health and safety file to the client upon completion of the construction work and shall, in addition to the documentation referred to in sub regulation (7), include a record of all drawings, designs, materials used and other similar information concerning the completed structure.
  - (9) A principal contractor shall ensure that in addition to the documentation required in the health and safety file as determined in sub regulations (7) and (8), a comprehensive and updated list of all the contractors on site accountable to the principal contractor, the agreements between the parties and the type of work being done is included and available.
  - (10) No principal contractor shall appoint a contractor to perform construction work unless the principal contractor is reasonably satisfied that the contractor he or she intends to appoint, has the necessary competencies and resources to perform the construction work safely.
  - (11) Where a contractor appoints another contractor to perform construction work, the responsibilities as determined in sub regulations (2) to (6) that apply to the principal contractor shall apply to the contractor as if he or she were the principal contractor.
  - (12) No contractor shall appoint another contractor to perform construction work unless he or she is reasonably satisfied that the contractor he or she intends to appoint has the necessary competencies and resources to perform the construction work safely.
  - (13) Contractors shall co-operate with the principal contractor as far as is necessary to enable each of them to comply with the provisions of the Act.
  - (14) Every contractor shall as far as is reasonably practicable, promptly provide the principal contractor with any information which might affect the health and safety of any person at work carrying out construction work or any person who might be affected by the work of such a person at work or which might justify a review of the health and safety plan.

#### Supervision of construction work

- 6.(1) Every contractor shall appoint a full-time competent employee designated in writing as the construction supervisor, with the duty of supervising the performance of the construction work.

- (2) The contractor may in writing appoint one or more competent employees to assist the appointed construction supervisor contemplated in sub regulation (1), and every such employee shall, to the extent clearly defined by the contractor in the letter of designation, have the same duties as the construction supervisor: Provided that the designation of any such employee shall not relieve the construction supervisor contemplated in sub regulation (1) of any personal accountability for failing in his supervisory duties referred to in terms of this regulation.
- (3) Where the contractor has not appointed an employee as referred to sub regulation (2), or, in the opinion of an inspector, not a sufficient number of such employees, that inspector may require the employer to appoint the number of employees indicated by the inspector, and the provisions of sub regulation (2) shall apply in respect of those employees as if they had in the first instance been appointed under sub regulation (2).
- (4) No construction supervisor appointed in terms of sub regulation (1) shall supervise any construction work on or in any construction site other than the site in respect of which he or she has been appointed: Provided that a sufficient number of competent employees have been appropriately designated under sub regulation (2) on all the construction sites, the appointed construction supervisor may supervise more than one site.
- (5) If, however, the construction supervisor appointed in terms of sub regulation (1) for more than one construction site will not, in the opinion of an inspector, be able to supervise the works favourably, an inspector may require the contractor to appoint the required number of employees as contemplated in sub regulation (2) to assist the appointed construction supervisor or instruct the contractor to appoint the construction supervisor who had been appointed in terms of sub regulation (1) more appropriately.
- (6) A contractor shall upon having considered the size of the project, the degree of dangers likely to be encountered or the accumulation of hazards or risks on the site, appoint a full-time or part-time construction safety officer in writing to assist in the control of all safety related aspects on the site: Provided that, where the question arises as to whether a construction safety officer is necessary, the decision of an inspector shall be decisive.
- (7) The appointed construction safety officer as contemplated in sub regulation (6) shall as far as is reasonably practicable be utilised to give input at the early design stage and where not appointed at this stage, he or she shall be given the opportunity to input into the health and safety plan when wanting to do so, and a record of such shall be kept in the health and safety file contemplated in regulation 5(7).
- (8) No contractor shall appoint a construction safety officer to assist in the control of safety related aspects on the site unless he or she is reasonably satisfied that the construction safety officer he or she intends to appoint, has the necessary competencies and resources to assist the contractor.

#### Risk assessment

- 7.(1) Every contractor performing construction work shall before the commencement of any construction work and during construction work, cause a risk assessment to be performed by a competent person appointed in writing and the risk assessment shall form part of the health and safety plan to be applied on the site and shall include at least—
  - (a) the identification of the risks and hazards to which persons may be exposed to;
  - (b) the analysis and evaluation of the risks and hazards identified;
  - (c) a documented plan of safe work procedures to mitigate, reduce or control the risks and hazards that have been identified;
  - (d) a monitoring plan; and
  - (e) a review plan.
- (2) A contractor shall ensure that a copy of the risk assessment is available on site for inspection by an inspector, client, client's agent, contractor, employee, representative trade union, health and safety representative or any member of the health and safety committee.
- (3) Every contractor shall consult with the health and safety committee or, if no health and safety committee exists, with a representative group of employees, on the development, monitoring and review of the risk assessment.
- (4) A contractor shall ensure that all employees under the his or her control are informed, instructed and trained by a competent person regarding any hazard and the related work procedures before any work commences, and thereafter at such times as may be determined in the risk assessment.

- (5) A principal contractor shall ensure that all contractors are informed regarding any hazard as stipulated in the risk assessment before any work commences, and thereafter at such times as may be determined in the risk assessment.
- (6) A contractor shall ensure that as far as is reasonably practicable, ergonomic related hazards are analysed, evaluated and addressed in the risk assessment.
- (7) Notwithstanding the requirements laid down in sub regulation (4), no contractor shall allow or permit any employee to enter any site, unless such person has undergone health and safety induction training pertaining to the hazards prevalent on the site at the time of entry.
- (8) A contractor shall ensure that all visitors to a construction site undergoes health and safety instruction pertaining to the hazards prevalent on the site and shall be provided with the necessary personal protective equipment: Provided that where visits are made only to the site office which is not in direct contact with the construction work activities, those health and safety instructions and the provision of personal protective equipment may not apply.
- (9) Every employee on site shall-
  - (a) be in possession of proof of the health and safety induction training as determined in sub regulation (7), issued by a competent person of the contractor prior to the commencement of construction work; and
  - (b) carry the proof contemplated in paragraph (a) for the duration of that project or for the period that the employee will be on the construction site.

#### Fall protection

- 8.(1) A contractor shall cause—
  - (a) the designation of a competent person, responsible for the preparation of a fall protection plan;
  - (b) the fall protection plan contemplated in (a) to be implemented, amended where and when necessary and maintained as required;
  - (c) steps to be taken in order to ensure the continued adherence to the fall protection plan.
- (2) The fall protection plan contemplated in sub regulation (1), shall include—
  - (a) a risk assessment of all work carried out from an elevated position which shall include the procedures and methods used to address all the risks identified per location;
  - (b) the processes for evaluation of the employees physical and psychological fitness necessary to work at elevated positions and the records thereof;
  - (c) the programme for the training of employees working from elevated positions and records thereof; and
  - (d) the procedure addressing the inspection, testing and maintenance of all fall protection equipment.
- (3) A contractor shall ensure that the construction supervisor appointed in terms of regulation 6(1), is in possession of the most recently updated version of the fall protection plan.
- (4) Notwithstanding the provisions of sub regulations (1) and (2), the contractor shall ensure that—
  - (a) all unprotected openings in floors, edges, slabs, hatchways and stairways are adequately guarded, fenced or barricaded or that similar means are used to safeguard any person from falling through such openings;
  - (b) no person works in an elevated position, unless such work is performed safely as if working from a scaffold or ladder;
  - (c) notices are conspicuously placed at all openings where the possibility exists that a person might fall through such openings;
  - (d) fall prevention and fall arrest equipment is—

- (i) suitable and of sufficient strength for the purpose or purposes for which it is being used having regard to the work being carried out and the load, including any person, it is intended to bear; and
  - (ii) securely attached to a structure or plant and the structure or plant and the means of attachment thereto is suitable and of sufficient strength and stability for the purpose of safely supporting the equipment and any person who is liable to fall;
  - (e) fall arrest equipment shall only be used where it is not reasonably practicable to use fall prevention equipment; and
  - (f) suitable and sufficient steps shall be taken to ensure, as far as is reasonably practicable, that in the event of a fall by any person, the fall arrest equipment or the surrounding environment does not cause injury to the person.
- (5) Where roof work is being performed on a construction site, the contractor shall ensure that in addition to the requirements set out in sub regulations (2) and (4), it is furthermore indicated in the fall protection plan—
- (a) that the roof work has been properly planned;
  - (b) that the roof erectors are competent to carry out the work;
  - (c) that no employees are permitted to work on roofs during inclement weather conditions or if weather conditions are a hazard to the health and safety of the employees;
  - (d) that prominent warning notices are to be placed where all covers to openings are not of sufficient strength to withstand any imposed loads and where fragile material exists;
  - (e) that the areas mentioned in paragraph (d) are to be barricaded off to prevent persons from entering;
  - (f) that suitable and sufficient platforms, coverings or other similar means of support have been provided to be used in such a way that the weight of any person passing across or working on or from fragile material is supported; and
  - (g) that there is suitable and sufficient guard-rails or barriers and toe-boards or other similar means of protection to prevent, so far as is reasonably practicable, the fall of any person, material or equipment.

#### Structures

9.(1) A contractor shall ensure that—

- (a) all reasonably practicable steps are taken to prevent the uncontrolled collapse of any new or existing structure or any part thereof, which may become unstable or is in a temporary state of weakness or instability due to the carrying out of construction work; and
- (b) no structure or part of a structure is loaded in a manner which would render it unsafe.

(2) The designer of a structure shall—

- (a) before the contract is put out to tender, make available to the client all relevant information about the design of the relevant structure that may affect the pricing of the construction work;
- (b) inform the contractor in writing of any known or anticipated dangers or hazards relating to the construction work, and make available all relevant information required for the safe execution of the work upon being designed or when the design is subsequently altered;
- (c) subject to the provisions of paragraph (a) and (b) ensure that the following information is included in a report and made available to the contractor—
  - (i) a geo-science technical report where appropriate;
  - (ii) the loading the structure is designed to withstand; and
  - (iii) the methods and sequence of construction.



- (d) not include anything in the design of the structure necessitating the use of dangerous procedures or materials hazardous to the health and safety of persons, which could be avoided by modifying the design or by substituting materials;
  - (e) take into account the hazards relating to any subsequent maintenance of the relevant structure and should make provision in the design for that work to be performed to minimise the risk;
  - (f) carry out sufficient inspections at appropriate times of the construction work involving the design of the relevant structure in order to ensure compliance with the design and a record of those inspections is to be kept on site;
  - (g) stop any contractor from executing any construction work which is not in accordance with the relevant design;
  - (h) conduct a final inspection of the completed structure prior to its commissioning in order to render it safe for use and issue a completion certificate to the contractor; and
  - (i) ensure that when preparing the design, cognisance is taken of ergonomic design principles in order to minimise ergonomic related hazards in all phases of the life cycle of a structure.
- (3) A contractor shall ensure that all drawings pertaining to the design of the relevant structure are kept on site and are available on request by an inspector, contractors, client, client's agent or employee.
  - (4) Any owner of a structure shall ensure that inspections of that structure upon completion are carried out periodically by competent persons in order to render the structure safe for continued use: Provided that the inspections are carried out at least once every six months for the first two years and thereafter yearly and records of such inspections are kept and made available to an inspector upon request.
  - (5) Any owner of a structure shall ensure that the structure upon completion is maintained in such a manner that the structure remains safe for continued use and such maintenance records shall be kept and made available to an inspector upon request.

#### Formwork and support work

#### 10. A contractor shall ensure that—

- (a) all formwork and support work operations are carried out under the supervision of a competent person who has been appointed in writing for that purpose;
- (b) all formwork and support work structures are adequately designed, erected, supported, braced and maintained so that they will be capable of supporting all anticipated vertical and lateral loads that may be applied to them and also that no loads are imposed onto the structure that the structure is not designed to withstand;
- (c) the designs of formwork and support work structures are done upon close reference to the structural design drawings and where any uncertainty exists, the structural designer should be consulted;
- (d) all drawings pertaining to the design of formwork or support work structures are kept on the site and are available on request by an inspector, contractor, client, client's agent or employee;
- (e) all equipment used in the formwork or support work structure are carefully examined and checked for suitability by a competent person, before being used;
- (f) all formwork and support work structures are inspected by a competent person immediately before, during and after the placement of concrete or any other imposed load and thereafter on a daily basis until the formwork and support work structure has been removed and the results have been recorded in a register and made available on site;
- (g) if, after erection, any formwork and support work structure is found to be damaged or weakened to such a degree that its integrity is affected, it shall be safely removed or reinforced immediately;
- (h) adequate precautionary measures are taken in order to—
  - (i) secure any deck panels against displacement; and

- (ii) prevent any person from slipping on support work or formwork due to the application of formwork or support work release agents;
- (i) as far as is reasonably practicable, the health of any person is not affected through the use of solvents or oils or any other similar substances;
- (j) upon casting concrete, the support work or formwork structure should be left in place until the concrete has acquired sufficient strength to support safely, not only its own weight, but also any imposed loads and not removed until authorisation has been given by the competent person contemplated in paragraph (a);
- (k) provision is made for safe access by means of secured ladders or staircases for all work to be carried out above the foundation bearing level;
- (l) all employees required to erect, move or dismantle formwork and support work structures are provided with adequate training and instruction to perform these operations safely; and
- (m) the foundation conditions are suitable to withstand the weight caused by the formwork and support work structure and any imposed loads such that the formwork and support work structure is stable.

#### Excavation work

- 11.(1) A contractor shall ensure that all excavation work is carried out under the supervision of a competent person who has been appointed in writing.
- (2) A contractor shall evaluate, as far as is reasonably practicable, the stability of the ground before excavation work begins.
- (3) Every contractor who performs excavation work shall—
- (a) take suitable and sufficient steps in order to prevent, as far as is reasonably practicable, any person from being buried or trapped by a fall or dislodgement of material in an excavation;
  - (b) not require or permit any person to work in an excavation which has not been adequately shored or braced: Provided that shoring and bracing may not be necessary where—
    - (i) the sides of the excavation are sloped to at least the maximum angle of repose measured relative to the horizontal plane; or
    - (ii) such an excavation is in stable material: Provided that—
      - (aa) permission being given in writing by the appointed competent person contemplated in sub regulation (1) upon evaluation by him or her of the site conditions; and
      - (bb) where any uncertainty pertaining to the stability of the soil still exists, the decision from a professional engineer or a professional technologist competent in excavations shall be decisive and such a decision shall be noted in writing and signed by both the competent person contemplated in sub regulation (1) and the professional engineer or technologist, as the case may be;
  - (c) take steps to ensure that the shoring or bracing contemplated in paragraph (b) is designed and constructed in such a manner rendering it strong enough to support the sides of the excavation in question;
  - (d) ensure that no load, material, plant or equipment is placed or moved near the edge of any excavation where it is likely to cause its collapse and thereby endangering the safety of, any person, unless precautions such as the provision of sufficient and suitable shoring or bracing are taken to prevent the sides from collapsing;
  - (e) ensure that where the stability of an adjoining building, structure or road is likely to be affected by the making of an excavation, the steps are taken that may be necessary to ensure the stability of such building, structure or road and the safety of persons;

- (f) cause convenient and safe means of access to be provided to every excavation in which persons are required to work and such access shall not be further than 6m from the point where any worker within the excavation is working;
- (g) ascertain as far as is reasonably practicable the location and nature of electricity, water, gas or other similar services which may in any way be affected by the work to be performed, and shall before the commencement of excavation work that may affect any such service, take the steps that may be necessary to render the circumstances safe for all persons involved;
- (h) cause every excavation, including all bracing and shoring, to be inspected—
  - (i) daily, prior to each shift;
  - (ii) after every blasting operation;
  - (iii) after an unexpected fall of ground;
  - (iv) after substantial damage to supports; and
  - (v) after rain,
 by the competent person contemplated in sub regulation (1), in order to pronounce the safety of the excavation to ensure the safety of persons, and those results are to be recorded in a register kept on site and made available to an inspector, client, client's agent, contractor or employee upon request;
- (i) cause every excavation which is accessible to the public or which is adjacent to public roads or thoroughfares, or whereby the safety of persons may be endangered, to be—
  - (i) adequately protected by a barrier or fence of at least one metre in height and as close to the excavation as is practicable; and
  - (ii) provided with warning illuminates' or any other clearly visible boundary indicators at night or when visibility is poor;
- (j) ensure that all precautionary measures as stipulated for confined spaces as determined in the General Safety Regulations promulgated by Government Notice No.R.1031 of 30 May 1986, as amended, are complied with when entering any excavation;
- (k) ensure that, where the excavation work involves the use of explosives, a method statement is developed in accordance with the applicable explosives legislation, by an appointed person who is competent in the use of explosives for excavation work and that the procedures therein are followed; and
  - (l) cause warning signs to be positioned next to an excavation within which persons are working or carrying out inspections or tests.

#### **Demolition work**

**12.(1)** A contractor shall appoint a competent person in writing to supervise and control all demolition work on site.

- (2) A contractor shall ensure that prior to any demolition work being carried out, and in order also to ascertain the method of demolition to be used, a detailed structural engineering survey of the structure to be demolished is carried out by a competent person and that a method statement on the procedure to be followed in demolishing the structure is developed.
- (3) During the demolition, a competent person shall check the structural integrity of the structure at intervals determined in the method statement contemplated in sub regulation (2), in order to avoid any premature collapses.
- (4) Every contractor who performs demolition work shall—
  - (a) with regard to a structure being demolished, take steps to ensure that—
    - (i) no floor, roof or other part of the structure is overloaded with debris or material in a manner which would render it unsafe;
    - (ii) all reasonably practicable precautions are taken to avoid the danger of the structure collapsing when any part of the framing of a framed or partly framed building is removed, or when reinforced concrete is cut; and

- (iii) precautions are taken in the form of adequate shoring or such other means as may be necessary to prevent the accidental collapse of any part of the structure or adjoining structure;
  - (b) not require or permit any person to work under unsupported overhanging material, which has not been adequately supported, shored or braced;
  - (c) take steps to ensure that any support, shoring or bracing contemplated in paragraph (b), is designed and constructed so that it is strong enough to support the overhanging material;
  - (d) where the stability of an adjoining building, structure or road is likely to be affected by demolition work on a structure, take such steps as may be necessary to ensure the stability of such structure or road and the safety of persons;
  - (e) ascertain as far as is reasonably practicable the location and nature of electricity, water, gas or other similar services which may in anyway, be affected by the work to be performed, and shall before the commencement of demolition work that may affect any such service, take the steps that may be necessary to render circumstances safe for all persons involved;
  - (f) cause every stairwell used and every floor where work is being performed in a building being demolished, to be adequately illuminated by either natural or artificial means;
  - (g) cause convenient and safe means of access to be provided to every part of the demolition site in which persons are required to work; and
  - (h) erect a catch platform or net above an entrance or passageway or above a place where persons work or pass under, or fence off the danger area if work is being performed above such entrance, passageway, or place so as to ensure that all persons are kept safe where there is a danger or possibility of persons being struck by falling objects.
- (5) A contractor shall ensure that no material is dropped to any point, which falls outside the exterior walls of the structure, unless the area is effectively protected.
- (6) Waste and debris shall not be disposed from a high place by a chute unless the chute—
- (a) is adequately constructed and rigidly fastened;
  - (b) if inclined at an angle of more than 45 degrees to the horizontal, is enclosed on its four sides;
  - (c) if of the open type, is inclined at an angle of less than 45 degrees to the horizontal;
  - (d) where necessary, is fitted with a gate at the bottom end to control the flow of material; and
  - (e) is discharged into a container or an enclosed area surrounded by barriers.
- (7) A contractor shall ensure that every chute used to dispose of rubble is designed in such a manner that rubble does not free-fall and that the chute is strong enough to withstand the force of the debris travelling along the chute.
- (8) A contractor shall ensure that equipment is not used on floors or working surfaces, unless such floors or surfaces are of sufficient strength to support the imposed loads.
- (9) Where the risk assessment indicates the presence of asbestos, a contractor shall ensure that all asbestos related work is conducted in accordance with the provisions of the, Asbestos Regulations promulgated by Government Notice No.R.155 of 10 February 2002, as amended.
- (10) Where the risk assessment indicates the presence of lead, a contractor shall ensure that all lead related work is conducted in accordance with the provisions of the, Lead Regulations promulgated by Government Notice No.R.236 of 28 February 2002, as amended.
- (11) Where the demolition work involves the use of explosives, a method statement is to be developed in accordance with the applicable explosives legislation, by an appointed person who is competent in the use of explosives for demolition work and the procedures therein are adhered to.
- (12) A contractor shall ensure that all waste and debris is as soon as reasonably practicable removed and disposed of from the site in accordance with the applicable legislation.

## **Tunnelling**

- 13.(1) Any contractor performing tunnelling activities or works, shall comply with such requirements as published under the Mine Health and Safety Act, 1996 (Act No.29 of 1996), as amended.
- (2) Notwithstanding the provisions of sub regulation (1), no person shall enter a tunnel, which has a height dimension less than 800mm.

## **Scaffolding**

- 14.(1) Every contractor using access scaffolding, shall ensure that such scaffolding, when used, complies with the safety standards incorporated for this purpose into these Regulations under section 44 of the Act.
- (2) A contractor shall ensure that all scaffolding work operations are carried out under the supervision of a competent person who has been appointed in writing and that all scaffold erectors, team leaders and inspectors are competent to carry out their work.

## **Suspended platforms**

- 15.(1) A contractor shall ensure that all suspended platform work operations are carried out under the supervision of a competent person who has been appointed in writing, and that all suspended platform erectors, operators and inspectors are competent to carry out their work.
- (2) No contractor shall use or permit the use of a suspended platform, unless—
- (a) the design, stability and construction thereof comply with the safety standards incorporated for this purpose into these Regulations under section 44 of the Act;
  - (b) in possession of a certificate of system design issued by a professional engineer, certificated engineer or a professional technologist for the use of the suspended platform system; and
  - (c) he or she is, prior to the commencement of the work, is in possession of an operational compliance plan developed by a competent person based on the certificate of system design contemplated in paragraph (b) and applicable to the environment in which the system is being used, prior to the commencement of the work which must include proof of the—
    - (i) competent person who has been appointed for supervision;
    - (ii) competency of erectors, operators and inspectors;
    - (iii) operational design calculations which should comply with the requirements of the system design certificate;
    - (iv) performance test results;
    - (v) sketches indicating the completed system with the operational loading capacity of the platform;
    - (vi) procedures for and records of inspections having been carried out; and
    - (vii) procedures for and records of maintenance work having been carried out:

Provided that sub regulation (2) shall only become applicable six months from the date of promulgation of these regulations.

- (3) A contractor making use of a suspended platform system shall forward a copy of the certificate of system design issued by a professional engineer, certificated engineer or professional technologist including a copy of the design calculations, sketches and test results, to the provincial director before commencement of the use of the system and must further indicate the intended type of work, the system would be used for.
- (4) A contractor need not re-submit a copy of the certificate of system design contemplated in sub regulation (3) for every new project: Provided that the environment in which the system is being used does not change to such an extent that the system design certificate is no longer applicable and, should uncertainty exist of the applicability of the system design certificate, the decision of a professional engineer, certificated engineer or professional technologist shall be decisive.
- (5) A contractor shall ensure that the outriggers of each suspended platform—

- (a) are constructed of steel or any other material of similar strength and have a safety factor of at least four in relation to the load it is to carry; and
  - (b) have suspension points provided with stop devices or other effective devices at the outer ends to prevent the displacement of ropes.
- (6) The contractor shall ensure that—
- (a) the parts of the building or structure on which the outriggers are supported, are checked by means of calculations to ensure that the required safety factor is adhered to without risk of damage to the building or structure;
  - (b) the suspension wire rope and the safety wire rope are separately connected to the outrigger;
  - (c) each person on a suspended platform is provided with and wears a safety harness as a fall prevention device which must at all times, be attached to the suspended platform or to the anchorage points on the structure whilst on the suspended platform;
  - (d) the hand or power driven machinery to be used for the lifting or lowering of the working platform of a suspended platform is constructed and maintained in such a manner that an uncontrolled movement of the working platform cannot occur;
  - (e) the machinery referred to in paragraph (d) is so situated that it is easily accessible for inspection;
  - (f) the rope connections to the outriggers are vertically above the connections to the working platform; and
  - (g) where the working platform is suspended by two ropes only, the connections of the ropes to the working platform are of such height above the level of the working platform as to ensure the stability of the working platform.
- (7) A contractor shall ensure that the suspended platform—
- (a) is suspended as near as possible to the structure to which work is being done and, except when light work is being done, is secured at every working position to prevent horizontal movement between the suspended platform and the structure;
  - (b) is fitted with anchorage points to which workers shall attach the lanyard of the safety harness worn and used by the worker and such anchorage connections shall have sufficient strength to withstand any potential load applied to it; and
  - (c) is fitted with a conspicuous notice easily understandable by all workers working with the suspended platform, showing the maximum mass load which the suspended platform can carry.
- (8) A contractor shall cause—
- (a) the whole installation and all working parts of the suspended platform to be thoroughly examined in accordance with the manufacturer's specification;
  - (b) the whole installation to be subjected to a performance test as determined by the standard to which the suspended platform was manufactured;
  - (c) the performance test contemplated in paragraph (b) to be done by a competent person appointed in writing with the knowledge and experience of erection and maintenance of suspended platforms or similar machinery and who shall determine the serviceability of the structures, ropes, machinery and safety devices before they are used following every time they are erected;
  - (d) the performance test contemplated in paragraph (b) of the whole installation of the suspended platform shall be subjected to a load equal to that prescribed by the manufacturer or, in the absence of such load, to a load of 110 per cent of the rated mass load, at intervals not

exceeding 12 months and in such a manner that every part of the installation is stressed accordingly;

- (9) Notwithstanding the provisions of sub regulation (8), the contractor shall cause every hoisting rope, hook or other load-attaching device which forms part of the suspended platform to be thoroughly examined in accordance with the manufacturer's specification by the competent person contemplated in sub regulation (8) before they are used following every time they are assembled, and, in cases of continuous use, at intervals not exceeding three months.
- (10) A contractor shall ensure that the suspended platform supervisor appointed in terms of the provisions of sub regulation (1), or the suspended platform inspector mentioned in sub regulation (1), carries out a daily inspection of all the equipment prior to use, including establishing whether—
- (a) all connection bolts are secure;
  - (b) all safety devices are functioning;
  - (c) all safety devices are not tampered with or vandalised;
  - (d) the maximum mass load of the platform is not exceeded;
  - (e) the occupants in the suspended platform are using safety harnesses which have been properly attached;
  - (f) there are no visible signs of damage to the equipment; and
  - (g) all reported operating problems have been attended to.
- (11) A contractor shall ensure that all inspection and performance test records are kept on the construction site at all times and made available to an inspector, client, client's agent or employee upon request.
- (12) A contractor shall ensure that all employees required to work or to be supported on a suspended platform are—
- (a) physically and psychologically fit to work safely in such an environment by being in possession of a medical certificate of fitness;
  - (b) competent in conducting their work safely relating to suspended platforms and the training which employees receive or had received must include at least—
    - (i) how to access and egress the suspended platform safely;
    - (ii) how to correctly operate the controls and safety devices of the equipment;
    - (iii) information on the dangers related to the misuse of safety devices; and
    - (iv) information on the procedures to be followed in the case of—
      - (a) an emergency;
      - (b) the malfunctioning of equipment;
      - (c) the discovery of a suspected defect in the equipment; and
    - (iv) instructions on the proper use of safety harnesses.
- (13) Where the outrigger is to be moved, the contractor shall ensure that only persons trained and competent to effect such move, perform this task and that an inspection be carried out and the results thereof be recorded by the competent person prior to re-use of the suspended platform.
- (14) A contractor shall ensure that the suspended platform is properly isolated after use at the end of each working day such that no part of the suspended platform will present a danger to any person thereafter.**

#### **Boatswain's chairs**

- 16.(1) A contractor shall ensure that every boatswain's chair or similar device is securely suspended and is constructed in such a manner so as to prevent any occupant from falling therefrom.
- (2) The contractor shall ensure that an inspection is carried out prior and a performance test immediately after, the boatswain chair has been erected and thereafter a visual inspection should be carried out on a daily basis prior to use.

#### **Material hoists**

Contract

Annexure A /17

Annexure A

Occupational Health and Safety Regulations

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

- 17.(1) A contractor shall ensure that every material hoist and its tower have been constructed of sound material in accordance with the generally accepted technical standards and are strong enough and free from defects.
- (2) A contractor shall cause the tower of every material hoist to be —
- (a) erected on firm foundations and secured to the structure or braced by steel wire guy ropes and to extend to such a distance above the highest landing as to allow a clear and unobstructed space of at least 900 mm for over travel;
  - (b) enclosed on all sides at the bottom, and at all floors where persons are at risk of being struck by moving parts of the hoist, except on the side or sides giving access to the material hoist, with walls or other effective means to a height of at least 2100 mm from the ground or floor level; and
  - (c) provided with a door or gate at least 2100 mm in height at each landing and such door or gate shall be kept closed, except when the platform is at rest at such a landing.
- (3) A contractor shall cause —
- (a) the platform of every material hoist to be designed in such a manner that it shall safely contain the loads being conveyed and that the combined weight of the platform and the load does not exceed the designed lifting capacity of the hoist;
  - (b) the hoisting rope of every material hoist which has a remote winch to be effectively protected from damage by any external cause to the portion of the hoisting rope between the winch and the tower of the hoist; and
  - (c) every material hoist to be provided with an efficient brake capable of holding the platform with its maximum load in any position when the power is not being supplied to the hoisting machinery.
- (4) No contractor shall require or permit trucks, barrows or material to be conveyed on the platform of a material hoist and no person shall so convey trucks, barrows or material unless such articles are so secured or contained in such a manner that displacement thereof cannot take place during movement.
- (5) A contractor shall cause a notice, indicating the maximum mass load which may be carried at any one time and the prohibition of persons from riding on the platform of the material hoist, to be affixed around the base of the tower and at each landing.
- (6) A contractor of a material hoist shall not require or permit any person to operate such a hoist, unless the person is competent in the operation thereof.
- (7) No contractor shall require or permit any person to ride on a material hoist.
- (8) A contractor shall cause every material hoist —
- (a) to be inspected on a daily basis by a competent person who has been appointed in writing and has the experience pertaining to the erection and maintenance of material hoists or similar machinery.
  - (b) inspection contemplated in paragraph (a), to include the determination of the serviceability of the entire material hoist including guides, ropes and their connections, drums, sheaves or pulleys and all safety devices.
  - (c) inspection result to be entered and signed in a record book which shall be kept on the premises for that purpose.
  - (d) to be properly maintained and that the maintenance records in this regard are kept on site.

#### Batch plants

- 18.(1) A contractor shall ensure that all batch plants are operated and supervised by a competent person who has been appointed in writing.
- (2) A contractor shall ensure that the placement and erection of a batch plant complies with the requirements set out by the manufacturer and that such plant is erected as designed.
- (3) A contractor shall ensure that all devices to start and stop a batch plant are provided and that these devices are —



- (a) placed in an easily accessible position; and
  - (b) constructed in such a manner as to prevent accidental starting.
- (4) The contractor shall ensure that the machinery and plant selected is suitable for the task and that all dangerous moving parts of a mixer are placed beyond the reach of persons by means of doors, covers or other similar means.
  - (5) No person shall be permitted to remove or modify any guard or safety equipment relating to a batch plant, unless authorised to do so by the appointed person as contemplated in sub regulation (1).
  - (6) Contractor shall ensure that all persons authorised to operate the batch plant are fully —
    - (a) aware of all the dangers involved in the operation thereof; and
    - (b) conversant with the precautionary measures to be taken in the interest of health and safety.
  - (7) No person supervising or operating a batch plant shall authorise any other person to operate the plant, unless such person is competent to operate such machinery.
  - (8) A contractor shall ensure that all precautionary measures as stipulated for confined spaces in the General Safety Regulations promulgated by Government Notice No.R.1031 dated 30 May 1986, as amended, are adhered to when entering any silo.
  - (9) A contractor shall ensure that a record is kept of any repairs or maintenance to a batch plant and that it is made available, on site, to an inspector, client, client's agent or employee upon request.
  - (10) A contractor shall ensure that all lifting machines and lifting tackle used in the operation of a batch plant complies with the requirements of the Driven Machinery Regulations promulgated by Government Notice No.R.295 dated 26 February 1988, as amended;
  - (11) A contractor shall ensure that all precautionary measures are adhered to regarding the usage of electrical equipment in explosive atmospheres, when entering a silo, as contemplated in the Electrical Installation Regulations promulgated by Government Notice No.R. 2920 dated 23 October 1992, as amended.

Explosive powered tools

19.(1) No contractor shall use or permit any person to use an explosive powered tool, unless—

- (a) it is provided with a protective guard around the muzzle end, which effectively confines any flying fragments or particles; and
- (b) the firing mechanism is so designed that the explosive powered tool will not function unless—
  - (i) it is held against the surface with a force of at least twice its weight; and
  - (ii) the angle of inclination of the barrel to the work surface is not more than 15 degrees from a right angle;

Provided that the provisions of this sub regulation shall not apply to explosive powered tools in which the energy of the cartridge is transmitted to the bolts, nails or similar relevant objects by means of an intermediate piston which has a limited distance of travel.

(2) A contractor shall ensure that—

- (a) only cartridges suited for the explosive powered tool and the work to be performed are used;
- (b) the explosive powered tool is cleaned and examined daily before use and as often as may be necessary for its safe operation by a competent person who has been appointed;
- (c) that the safety devices are in proper working order prior to use;
- (d) when not in use, the explosive powered tool and the cartridges are locked up in a safe place, which is inaccessible to unauthorised persons;
- (e) the explosive powered tool is not stored in a loaded condition;

- (f) a warning notice is displayed in a conspicuous manner wherever the explosive powered tool is used;
  - (g) the issuing and collection of cartridges and nails or studs is-
    - (i) controlled and done in writing by a person having been appointed in writing; and
    - (ii) recorded in a register and that the recipient has accordingly signed for the receipt thereof as well as the returning of any spent and unspent cartridges;
- (3) No contractor shall permit or require any person to use an explosive powered tool unless such person has been—
- (a) provided with and uses suitable protective equipment; and
  - (b) trained in the operation, maintenance and use of such a tool.

### **Cranes**

**20.** Notwithstanding the provisions of the Driven Machinery Regulations promulgated by Government Notice No.R.295 of 26 February 1988, as amended, a contractor shall ensure that where tower cranes are used—

- (a) account is taken of the effects of wind forces on the structure;
- (b) account is taken of the bearing capacity of the ground on which the tower crane is to stand;
- (c) the bases for the tower cranes and tracks for rail-mounted tower cranes are firm and level;
- (d) the tower cranes are erected at a safe distance from excavations;
- (e) there is sufficient clear space available for erection, operation and dismantling;
- (f) the tower crane operators are competent to carry out the work safely; and
- (g) the tower crane operators are physically and psychologically fit to work in such an environment by being in possession of a medical certificate of fitness.

### **Construction vehicles and mobile plant**

**21.(1)** A contractor shall ensure that all construction vehicles and mobile plants—

- (a) are of an acceptable design and construction;
- (b) are maintained in a good working order;
- (c) are used in accordance with their design and the intention for which they were designed, having due regard to safety and health;
- (d) are operated by workers who-
  - (i) have received appropriate training and been certified competent and been authorised to operate such machinery; and
  - (ii) are physically and psychologically fit to operate such construction vehicles and mobile plant by being in possession of a medical certificate of fitness;
- (e) have safe and suitable means of access;
- (f) are properly organised and controlled in any work situation by providing adequate signalling or other control arrangements to guard against the dangers relating to the movement of vehicles and plant, in order to ensure their continued safe operation;

- (g) are prevented from falling into excavations, water or any other area lower than the working surface by installing adequate edge protection, which may include guardrails and crash barriers;
  - (h) where appropriate, are fitted with structures designed to protect the operator from falling material or from being crushed should the vehicle or mobile plant overturn;
  - (i) are equipped with an electrically operated acoustic signalling device and a reversing alarm; and
  - (j) are on a daily basis inspected prior to use, by a competent person who has been appointed in writing and the findings of such inspection is recorded in a register.
- (2) A Contractor shall furthermore ensure that —
- (a) no person rides or be required or permitted to ride on any construction vehicle or mobile plant otherwise than in a safe place provided thereon for that purpose;
  - (b) every construction site is organised in such a way that, as far as is reasonably practicable, pedestrians and vehicles can move safely and without risks to health;
  - (c) the traffic routes are suitable for the persons using them, sufficient in number, in suitable positions and of sufficient size;
  - (d) every traffic route is, where necessary indicated by suitable signs for reasons of health or safety;
  - (e) all construction vehicles and mobile plant left unattended at night, adjacent to a freeway in normal use or adjacent to construction areas where work is in progress, shall have appropriate lights or reflectors, or barricades equipped with appropriate lights or reflectors, in order to identify the location of the vehicles or plant;
  - (f) bulldozers, scrapers, loaders, and other similar mobile plant are, when being repaired or when not in use, fully lowered or blocked with controls in a neutral position, motors stopped and brakes set;
  - (g) whenever visibility conditions warrant additional lighting, all mobile plant are equipped with at least two headlights and two taillights when in operation;
  - (h) tools and material are secured in order to prevent movement when transported in the same compartment with employees;
  - (i) vehicles used to transport employees have seats firmly secured and adequate for the number of employees to be carried; and
  - (j) when workers are working on or adjacent to public roads, reflective indicators are provided and worn by the workers.

#### **Electrical installations and machinery on construction sites**

22. Notwithstanding the provisions contained in the Electrical Installation Regulations promulgated by Government Notice No.R.2920 of 23 October 1992 and the Electrical Machinery Regulations promulgated by Government Notice No. R.1593 of 12 August 1988, respectively, as amended, a contractor shall ensure that—
- (a) before construction commences and during the progress thereof, adequate steps are taken to ascertain the presence of and guard against danger to workers from any electrical cable or apparatus which is under, over or on the site;
  - (b) all parts of electrical installations and machinery are of adequate strength to withstand the working conditions on construction sites;
  - (c) in working areas where the exact location of underground electric power lines is unknown, employees using jackhammers, shovels or other hand tools which may make contact with a power line, are provided with insulated protective gloves or otherwise that the handle of the tool being used is insulated;

- (d) all temporary electrical installations are inspected at least once a week and electrical machinery on a daily basis before use on a construction site by competent persons and the records of these inspections are recorded in a register to be kept on site; and
- (e) the control of all temporary electrical installations on the construction site is designated to a competent person who has been appointed in writing.

#### Use and temporary storage of flammable liquids on construction sites

23. Notwithstanding the provisions for the use and storage of flammable liquids as determined in the General Safety Regulations promulgated by Government Notice No. R1031 dated 30 May 1986, as amended, a contractor shall ensure that—

- (a) where flammable liquids are being used, applied or stored at the workplace concerned, this is done in such a manner which would cause no fire or explosion hazard, and that the workplace is effectively ventilated: Provided that where the workplace cannot effectively be ventilated-
  - (i) every employee involved is provided with a respirator, mask or breathing apparatus of a type approved by the chief inspector, and
  - (ii) steps are taken to ensure that every such employee, while using or applying flammable liquid, uses the apparatus supplied to him or her;
- (b) no person smokes in any place in which flammable liquid is used or stored, and such contractor shall affix a suitable and conspicuous notice at all entrances to any such areas prohibiting such smoking;
- (c) flammable liquids on a construction site is stored in a well ventilated reasonably fire resistant container, cage or room and kept locked with proper access control measures in place;
- (d) an adequate amount of efficient fire-fighting equipment is installed in suitable locations around the flammable liquids store with the recognised symbolic signs;
- (e) only the quantity of flammable liquid needed for work on one day is to be taken out of the store for use;
- (f) all containers holding flammable liquids are kept tightly closed when not in actual use and, after their contents have been used up, to be removed from the construction site and safely disposed of;
- (g) where flammable liquids are decanted, the metal containers are bonded or earthed; and
- (h) no flammable material such as cotton waste, paper, cleaning rags or similar material is stored together with flammable liquids.

#### Water environments

24.(1) A contractor shall ensure that where construction work is done over or in close proximity to water, provision is made for—

- (a) preventing workers from falling into water; and
  - (b) the rescuing of workers in danger of drowning.
- (2) A contractor shall ensure that where a worker is exposed to the risk of drowning by falling into the water, a lifejacket is provided to and worn by the worker.

#### Housekeeping on construction sites

25 Notwithstanding the provisions of the Environmental Regulations for Workplaces promulgated by Government Notice No.R 2281 dated 16 October 1987, as amended, a contractor shall ensure that—

- (a) suitable housekeeping is continuously implemented on each construction site, including provisions for the—
  - (i) proper storage of materials and equipment; and

- (ii) removal of scrap, waste and debris at appropriate intervals;
- (b) loose materials required for use, are not placed or allowed to accumulate on the site so as to obstruct means of access to and egress from workplaces and passageways;
- (c) waste and debris are not disposed of from a high place with a chute, unless the chute complies with the requirements set out regulation 12(6); and
- (d) construction sites in built-up areas, adjacent to a public way are suitably and sufficiently fenced off and provided with controlled access points to prevent the entry of unauthorised persons.
- (e) a catch platform or net is erected above an entrance or passageway or above a place where persons work or pass under, or fence off the danger area if work is being performed above such entrance, passageway, or place so as to ensure that all persons are kept safe where there is a danger or possibility of persons being struck by falling objects.

#### **Stacking and storage on construction sites**

**26** Notwithstanding the provisions for the stacking of articles contained in the General Safety Regulations promulgated by Government Notice No. R1031 dated 30 May 1986, as amended, a contractor shall ensure that—

- (a) a competent person is appointed in writing with the duty of supervising all stacking and storage on a construction site;
- (b) adequate storage areas are provided;
- (c) there are demarcated storage areas; and
- (d) storage areas are kept neat and under control.

#### **Fire precautions on construction sites**

**27** Subject to the provisions of the Environmental Regulations for Workplaces promulgated by Government Notice No.R.2281 of 16 October 1987, as amended, every contractor shall ensure that—

- (a) all appropriate measures are taken to avoid the risk of fire;
- (b) sufficient and suitable storage is provided for flammable liquids, solids and gases;
- (c) smoking is prohibited and notices in this regard are prominently displayed in all places combustible or flammable materials;
- (d) in confined spaces and other places in which flammable gases, vapours or dust can cause danger—
  - (i) only suitably protected electrical installations and equipment, including portable lights, are used;
  - (ii) there are no flames or similar means of ignition;
  - (iii) there are conspicuous notices prohibiting smoking;
  - (iv) oily rags, waste and other substances liable to ignite are without delay removed to a safe place; and
  - (v) adequate ventilation is provided;
- (e) combustible materials do not accumulate on the construction site;
- (f) welding, flame cutting and other hot work are done only after the appropriate precautions as required have been taken to reduce the risk of fire;
- (g) suitable and sufficient fire-extinguishing equipment is placed at strategic locations or as may be recommended by the Fire Chief or local authority concerned, and that such equipment is maintained in a good working order;
- (h) the fire equipment contemplated in paragraph (g) is inspected by a competent person, who has been appointed in writing, in the manner indicated by the manufacturer thereof;

- (j) a sufficient number of workers are trained in the use of fire-extinguishing equipment;
- (k) where appropriate, suitable visual signs are provided to clearly indicate the escape routes in the case of a fire;
- (l) the means of escape is kept clear at all times;
- (m) there is an effective evacuation plan providing for all—
  - (i) persons to be evacuated speedily without panic;
  - (ii) persons to be accounted for, and
  - (iii) plant and processes to be shut down; and
- (n) a siren is installed and sounded in the event of a fire.

### **Construction welfare facilities**

28.(1) Notwithstanding the construction site provisions contained in the Facilities Regulations promulgated by Government Notice No.R. 2362 of 5 October 1990, as amended, a contractor shall, depending on the number of workers and the duration of the work, provide at or within reasonable access of every construction site, the following clean and maintained facilities:—

- (a) at least one shower facility for every 15 workers;
- (b) at least one sanitary facility for every 30 workers;
- (c) changing facilities for each sex; and
- (d) sheltered eating areas.

(2) A contractor shall provide reasonable and suitable living accommodation for the workers at construction sites which are remote from their homes and where adequate transportation between the site and their homes, or other suitable living accommodation, is not available.  
Approved inspection authorities

29.(1) The Chief Inspector may approve as an Inspection Authority any organisation that has been accredited in terms of the provision of the Act and these regulations.

(2) The Chief Inspector may at any time withdraw any approval of an approved inspection authority, subject to section 35 of the Act.

### **Offences and penalties**

30. Any person who contravenes or fails to comply with any of the provisions of regulations 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27 and 28, shall be guilty of an offence and liable upon conviction to a fine or to imprisonment for a maximum of 12 months and, in the case of a continuous offence, to an additional fine of R200 for each day on which the offence continues or additional imprisonment of one day for each day on which the offence continues: Provided that the period of such additional imprisonment shall not exceed 90days.

### **Repeal of regulations**

31. The following regulations are herewith repealed:

- (a) Regulations 11, 12, 13, 13C, 13D, 13E, 13F and 13G of the, General Safety Regulations promulgated by Government Notice No.R.1031 of 30 May 1986;
- (b) Regulations 19 and 20 of the, Driven Machinery Regulations promulgated by Government Notice No.R.295 of 26 February 1988; and
- (c) Regulations 14 of the, General Administrative Regulations promulgated by Government Notice No.R.1449 of 6 September 1996.

### **Short title**

32. These regulations shall be known as the Construction Regulations, 2003.

**ANNEXURE A**

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993  
Regulation 3 of the Construction Regulations, 2003

**NOTIFICATION OF CONSTRUCTION WORK**

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- 1.(a) Name and postal address of principal contractor:  
\_\_\_\_\_
- (b) Name and tel. no of principal contractor's contact person:  
\_\_\_\_\_
  
- 2. Principal contractor's compensation registration number: \_\_\_\_\_
  
- 3.(a) Name and postal address of client:  
\_\_\_\_\_
- (b) Name and tel no of client's contact person or agent:  
\_\_\_\_\_
  
- 4.(a) Name and postal address of designer(s) for the project:  
\_\_\_\_\_
- (b) Name and tel. no of designer(s) contact person:  
\_\_\_\_\_
  
- 5. Name and telephone number of principal contractor's construction supervisor on site appointed in terms of regulation 6.(1). \_\_\_\_\_
  
- 6. Name/s of principal contractor's sub-ordinate supervisors on site appointed in terms of regulation 6.(2).  
\_\_\_\_\_
  
- 7. Exact physical address of the construction site or site office:  
\_\_\_\_\_
  
- 8. Nature of the construction work:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  
- 9. Expected commencement date : \_\_\_\_\_
- 10. Expected completion date : \_\_\_\_\_
- 11. Estimated maximum number of persons on the construction site. \_\_\_\_\_
- 12. Planned number of contractors on the construction site accountable to principal contractor:  
\_\_\_\_\_
  
  
- 13. Name(s) of contractors already chosen.  
\_\_\_\_\_  
\_\_\_\_\_

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\_\_\_\_\_  
Principal Contractor

\_\_\_\_\_  
Date

\_\_\_\_\_  
Client

\_\_\_\_\_  
Date

- THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR **PRIOR TO COMMENCEMENT** OF WORK ON SITE.
- **ALL PRINCIPAL CONTRACTORS** THAT QUALIFY TO NOTIFY MUST DO SO EVEN IF ANOTHER PRINCIPAL CONTRACTOR ON THE SAME SITE HAD DONE SO PRIOR TO THE COMMENCEMENT OF WORK.



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# **ANNEXURE B**

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## **Occupational Health and Safety Specification**

# **DIPALESENG LOCAL MUNICIPALITY**

(Hereinafter referred to as the Employer)

## **OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION**

This specification shall be used in conjunction with all other applicable safety specifications, legislation and regulations in force at the time of the contract. Where unique site specifications are in force, those site specifications shall take precedence over this Specification.

**Contract**

**Annexures B/2**

**Annexure B**

**Occupational Health and Safety Specification**

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

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## ANNEXURES:

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- B) Notification of Construction Work

Contract

Annexures B/3

Annexure B

Occupational Health and Safety Specification

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

## 1. SCOPE

This specification details the health and safety requirement associated with the Works.

## 2. INTERPRETATIONS

Occupational Health and Safety Act, Act 85 of 1993 shall apply to this Contract. The Construction Regulations promulgated on 18 July 2003 and incorporated into the said Act by Government Notice R 1010, published in Government Gazette 25207 apply to any person involved in construction work. These regulations are hereinafter referred to as "the Construction Regulations" and the said Act as "the Act".

Construction work is defined as: Any work in connection with: -

- a) the erection, maintenance, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure;
- b) the installation, erection, dismantling or maintenance of a fixed plant where such work includes the risk of a person falling;
- c) the construction, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system or any similar civil engineering structure; or
- d) the moving of earth, clearing of land, the making of an excavation, piling, or any similar type of work.

## 3. GENERAL

### 3.1 Employer

- 3.1.1 The Employer will appoint the Contractor in writing for the execution of the works.
- 3.1.2 The Employer will take reasonable steps to ensure that the Contractor's health and safety plan is implemented and maintained. The steps taken will include periodic audits at intervals of at least once every month.
- 3.1.3 The Employer or his Agent will stop the Contractor from executing construction work should the Contractor at any stage in the execution of the works:
  - a) fail to implement or maintain his health and safety plan;
  - b) execute construction work which is not in accordance with his health and safety plan; or
  - c) act in any way which may pose a threat to the health and safety of persons.

### 3.2 Contractor

- 3.2.1 The Contractor shall accept the appointment under the terms and Conditions of Contract. The Contractor shall sign and agree to those terms and conditions and shall, before commencing work, notify the Department of Labour of the intended construction work in terms of Regulation 3 of the Construction Regulations. ANNEXURE B of this Specification contains a "Notification of Construction Work" form. The Contractor shall submit the notification in writing prior to commencement of work.
- 3.2.2 The Contractor shall ensure that he is fully conversant with the requirements of this Specification. The specification is not intended to supersede the Act nor the Construction Regulations. Those sections of the Act and the Construction Regulations which apply to the scope of work to be performed by the Contractor in terms of this contract continue to be a legal requirement of the Contractor.

- 3.2.3 The Contractor shall provide and demonstrate to the Employer a suitable and sufficiently documented health and safety plan based on this Specification, the Act and the Construction Regulations, which shall be applied from the date of commencement of and for the duration of execution of the works.
- 3.2.4 The Contractor shall provide proof of his registration and good standing with the Compensation Fund or with a licensed compensation insurer prior to commencement with the works.
- 3.2.5 The Contractor shall, in submitting his tender, demonstrate that he has made provision for the cost of compliance with the specified health and safety requirements, the Act and Construction Regulations.
- 3.2.6 The Contractor shall consistently demonstrate his competence and adequacy of resources to perform the duties imposed on the Contractor in terms of this Specification, the Act and the Construction Regulations.
- 3.2.7 The Contractor shall ensure that a copy of his health and safety plan is available on request to the Employer, an Inspector, Employee or Sub-contractor.
- 3.2.8 The Contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the provisions of this Specification, the Act and the Construction Regulations, is opened and kept on site and made available to the Employer or Inspector upon request. Upon completion of the works, the Contractor shall hand over a consolidated health and safety file to the Employer.
- 3.2.9 The Contractor shall, throughout execution of the contract, ensure that all conditions imposed on his Sub-contractors in terms of the Act and the Construction Regulations are complied with as if they were the Contractor.

#### **4. GENERAL REQUIREMENTS**

##### **4.1 Contractor's Construction Safety Officer**

Before commencing work, the Contractor shall designate a competent construction safety officer (CSO) who shall be acceptable to the representative / agent to represent and act for the Contractor. The Contractor shall inform the representative / agent in writing of the name and address of the Contractor's CSO and of any subsequent changes in the name and address of the officer, together with the scope and limitations of the CSO's authority to act for the Contractor. The Contractor's CSO shall make available to the Employer a telephone number at which the CSO can be contacted at any time in the event of an emergency involving any of the Contractor's employees, or other persons at the Works.

##### **4.2 Log Books**

The Contractor shall keep the following log books and shall make them available to the Representative/Agent on request:

- 4.2.1 A record of the names and addresses of its employees who are registered as trained fire-fighting personnel and who are available on site for fire-fighting duties.
- 4.2.2 A record of the weekly inspection of first aid boxes.
- 4.2.3 A record of the weekly inspections of ladders
- 4.2.4 A record of the weekly inspections of fire-fighting equipment.
- 4.2.5 A record of the monthly inspections of welding machines.
- 4.2.6 A record of the monthly inspections of oxy-acetylene equipment.
- 4.2.7 A record of the weekly inspections of scaffolding structures.

- 4.2.8 A record of the monthly inspections of builder's hoists.
- 4.2.9 A record of the monthly inspections of mobile and tower cranes.
- 4.2.10 A record of the monthly inspections of lifting gear.
- 4.2.11 A record of the inspections of electrical equipment.
- 4.2.13 A record of the weekly inspections of plant for gauging and mixing of materials for concrete.

### **4.3 First Aid**

#### **4.3.1 Safety Notice Board**

The Contractor shall provide a safety notice board where safety notices, site regulations concerning safe working practices and information on the nearest first aid station, ambulance, doctor and telephone numbers of the CSO and other relevant persons can be conspicuously displayed to its entire staff. The size of the notice board shall be at least 600mm x 800mm.

#### **4.3.2 First Aid Equipment**

The Contractor shall provide for its employees a stretcher for emergencies and an approved first aid box. The first aid box shall be checked weekly by a responsible person, who shall be appointed by the Contractor, and a record shall be kept of the contents. Any deficient medical supplies shall be promptly replenished by the Contractor.

#### **4.3.3 Reporting of incidents and / or injuries**

All incidents in respect of damage to Works, property or machinery, or injury to persons, shall be reported by the Contractor's Safety Officer or Site Representative to the Representative / agent by the quickest means possible.

A mandatory incident report form, containing full details of the incident, shall be completed and submitted to the representative/ agent within twenty-four (24) hours of the occurrence of the incident.

The representative/ agent shall have the right to make all or any enquiries as to the cause and result of any such incident. The Contractor shall provide the representative / agent with full facilities for carrying out such enquiries.

### **4.4 Risk Assessment and Safety Policy**

Before commencing work the Contractor shall cause a risk assessment to be performed by a competent person appointed in writing and this shall form part of the health and safety plan.

A copy of the risk assessment shall be available on site at all times for inspection.

The Contractor shall at all times carry out the Works in a manner to avoid the risk of bodily harm to persons or risk of damage to any property. The Contractor shall take all precautions, which are necessary and adequate to eliminate any conditions which contribute to the risk of injury to persons or damage to property. The Contractor shall continually inspect all work, materials and equipment to discover and determine any such conditions and shall be solely responsible for the discovery, determination and elimination of such conditions.

During the period of this Contract, the Contractor shall be responsible for the safe storage of all materials and equipment required for execution of the Contract, and for disposal of all non-usable waste material in an orderly manner.

All materials, whether stored on the construction site or within the Contractor's designated area, shall be stored neatly and safely to prevent possible injury to any personnel. The material shall be stored to facilitate safe access to, and removal of the material from the storage area.

Any flammable material, such as paint, diesel fuel and oil, shall be stored in lockable non-

combustible structures, which shall be clearly marked to indicate the hazardous nature of the materials stored within. The flammable materials stores shall be located in safe areas away from hazardous surroundings and adequate and suitable fire-fighting equipment shall be provided within easy reach of the materials stores.

#### **4.5 Danger Areas**

All danger areas shall be demarcated by the Contractor with appropriate tape and hazard notices to prevent unauthorized persons entering the danger area.

#### **4.6 Hazard Notices**

The Contractor shall display hazard notices in all areas identified in the risk assessment as potentially hazardous.

#### **4.7 Personal Protective Clothing**

The Contractor shall provide the necessary personal protective clothing for his employees in hazardous areas, appropriate to the nature of the hazard identified in the risk assessment.

##### **4.7.1 Hard Hats**

All employees of the Contractor shall wear hard hats in areas where appropriate hazard notices are displayed. The representative/ agent shall have the right to ban certain colours if they are similar to the employer's identifying colours. Hard hats shall not be painted or otherwise defaced.

##### **4.7.2 Eye Protection**

Suitable eye protection shall be worn in areas where appropriate hazard notices are displayed, or when grinding, chipping, breaking, drilling, arc-welding, cutting with oxyacetylene equipment of similar activities are taking place.

##### **4.7.3 Hearing Protection**

Suitable hearing protection shall be worn in areas where appropriate hazard notices are displayed.

##### **4.7.4 Foot Wear**

All employees of the Contractor shall wear undamaged, laced-up safety boots or safety shoes, suitable for the intended purpose, in prescribed areas where appropriate hazard notices are displayed.

##### **4.7.5 Gloves**

All employees of the Contractor's shall wear suitable protective gloves in areas where appropriate hazard notices are displayed or when handling hot or hazardous materials or chemicals.

##### **4.7.6 Clothing**

All employees of the Contractor shall wear suitable protective clothing when working in proximity of machinery, power tools, hazardous materials or chemicals.

#### **4.8 Road Traffic Ordinance / Transportation Act**

- 4.8.1 The Contractor shall ensure that drivers of motor vehicles are in possession of a driver's licence, valid for the class of vehicle which they are required to drive, and shall produce the licence on request.

4.8.2 The Contractor shall not permit any driver to be in control of a vehicle at the Works while under the influence of alcohol or drugs.

4.8.3 All vehicles of the Contractor shall display a name board bearing the Contractor's name. Hired vehicles shall bear an identifying sticker.

#### **4.9 Overhead Power lines**

Regulations of the Electricity Supply Authority in connection with prohibition of operations in the vicinity of overhead power lines shall be observed by the Contractor at all times.

#### **4.10 Machine Guarding**

All power tools and machinery driven by belts, gears, ropes, chains, couplings and similar drives shall be adequately guarded. The Contractor shall prohibit the use of any equipment with a damaged, missing or inadequate guard.

#### **4.11 Concrete Mixing Equipment**

No Contractor shall use or cause to be used any plant for the storage, gauging and mixing of materials for concrete unless:

- a) The aggregates of different nominal size are separately stored in such a way that segregation, intermixing of different materials and contamination by foreign matter is prevented.
- b) The storage area shall be protected from unauthorized entry by an adequate barrier. A safe and tidy approach shall be maintained to the aggregate storage area.
- c) The Contractor shall appoint operators skilled in the operation of the plant.
- d) On a weekly basis, the plant shall be inspected by a competent person. The inspections shall include a check of the calibration of all the measuring devices and shall be recorded in a logbook, which shall be made available to the Representative / Agent on request.

#### **4.12 Ladders**

4.12.1 Every ladder shall be:

- a) Of good construction, sound material and adequate strength and suitable to the purpose for which it is used (e.g. electricians shall use suitable insulated ladders)
- b) Fitted with non-skid devices at the bottom of the stiles or with hooks or similar devices at the tops of the stiles.

4.12.2 Except for extension ladders, no ladder shall be used which is longer than 4,5m and no ladder shall have its reach extended by tying together two or more ladders.

4.12.3 All ladders shall be inspected weekly and a log shall be kept of the inspections.

#### **4.13 Scaffold Framework**

4.13.1 Scaffold standards shall be firmly supported and secured against displacement and shall be kept vertical.

4.13.2 No Contractor shall use, or cause to be used, any scaffold unless it is inspected by a competent person at least once a week and after inclement weather.

### **5. SPECIAL REQUIREMENTS**

#### **5.1 Excavation/Shoring**



- 5.1.1 The Contractor shall ensure that all excavation work is carried out under the supervision of a competent person who has been appointed in writing.
- 5.1.2 The face of an excavation shall not be undercut.
- 5.1.3 All excavations, irrespective of depth, shall be adequately screened off with barrier tape or some other suitable means of warning persons of a hazardous area. Where the depth of the excavation exceeds 2 m, a wooden or steel barrier shall also be erected around the excavation, particularly at the end of the working shift and at the start of weekends and holidays to prevent persons from falling into the excavations.
- 5.1.4 No construction materials shall be allowed to fall into an excavation. A safe and tidy approach shall be maintained around all excavations.
- 5.1.5 Adequate shoring, according to the recommendations of SABS 1200, Section D, 1988, shall be provided in the excavation by the Contractor when necessary. The shoring shall be approved by the Representative/Agent before excavation work continues.

## **5.2 Formwork and Support Work**

The Contractor shall ensure that:

- a) All formwork and support work operations are carried out under the supervision of a competent person who has been appointed by the Contractor in writing for that purpose.
- b) all formwork and support work structures are adequately designed, erected, supported, braced and maintained so that they will be capable of supporting all anticipated vertical and lateral loads that may be applied to them and also that no loads are imposed onto the structure that the structure is not designed to withstand;
- c) the foundation conditions are and remain suitable to withstand the load caused by the formwork and support work structure and any imposed loads such that the formwork and support work structure are stable;
- d) all formwork and support work structures are inspected by a competent person, who has been appointed by the Contractor in writing for that purpose, immediately before, during and after, the placement of concrete of any other imposed load and thereafter on a daily basis until the formwork and support work structure has been removed and the results have been recorded in a register and made available on the site of the Works; and
- e) upon casting concrete, the support work or formwork structure should be left in place until the concrete has acquired sufficient strength to support safely, not only its own load, but also any imposed loads, and not removed until authorization has been given by the competent person contemplated in sub-paragraph (a).

## **5.3 Prevention of Uncontrolled Collapse**

The Contractor shall ensure that -:

- a) All reasonably practicable steps are taken to prevent the uncontrolled collapse of any new or existing structure or any part thereof, which may become unstable or is in a temporary state of weakness or instability due to the carrying of construction work; and
- b) no structure or part of a structure is loaded in a manner that would render it unsafe.

## **5.4 Safe Working Loads**

The Contractor shall ensure that:-

- a) the safe working loads of hoists, load-bearing beams and cranes are prominently displayed at all times,
- b) the safe working loads are not exceeded under any circumstances,

- c) all lifting gear is marked with a unique identity number and recorded in a register.

#### **5.5 Electrical Equipment and Procedures Used by the Contractor**

- 5.5.1 All electrical equipment shall be regularly inspected by a qualified electrician, who shall be appointed by the Contractor, and the inspections shall be logged. The frequency of inspections shall be determined by the Representative/agent. A record of the inspections shall be kept and shall be made available to the Representative/agent on request.
- 5.5.2 The Contractor shall ensure that all his electrical equipment conforms to operational and safety requirements.
- 5.5.3 All earth leakage units shall be tested at intervals of not more than one month and signed for by a qualified electrician.

#### **5.6 Commissioning Safety Precautions**

The Contractor shall ensure that wherever repairs, adjustments or any other work are undertaken on any plant or machinery, the power supply is switched off, disconnected or the plant/ machinery disengaged until the work or repairs have been completed.

#### **5.7 Toxic Materials**

The Contractor shall exercise all necessary care in the handling of toxic compounds and shall be able to identify the major chemical components in the event of medical treatment being required.

#### **5.8 Hazardous Chemicals and Materials**

- a) The Contractor shall provide suitable adequate protective equipment when working in an area where hazardous chemicals and materials are being used.
- b) The Contractor shall ensure that its employees have familiarized themselves with the hazardous material data sheets applicable to the specific site as well as the location of the fire fighting equipment, safety showers/ baths and other washing facilities, prior to the commencement of work.

#### **5.9 Indemnity of Employer and his Agents**

- a) The ADDENDUM to this Contract Document contain a "Mandatory Form of Authority and Agreement in terms of Section 37 (2) of the Occupational Health and Safety Act, No,85 of 1993 which agreements shall be entire into and duly signed by both the Employer and Contractor prior to commencement with work. A copy of the signed agreement shall be included in the Contractor's health and safety plan.
- b) Any acceptance, approval, check, certificate, consent, examination, inspection, instruction, notice, observation, proposal, request, test or similar act by either the Employer, any of his agents or the representative /agent including lack of disapproval shall not relieve the Contractor from any responsibility he has under the Act and the Construction Regulations, including responsibility for errors, omissions, discrepancies and non- compliance.

**ANNEXURE "A"**

**PRO-FORMA AGREEMENT IN TERMS OF OCCUPATIONAL HEALTH AND SAFETY ACT  
1993**

**Contract**

**Annexures B/11**

**Annexure B  
Occupational Health and Safety Specification**

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

**PRO-FORMA AGREEMENT IN TERMS OF**

**OCCUPATIONAL HEALTH AND SAFETY ACT 1993 – SECTION 37 (2)**

**NEW CONSTRUCTION SAFETY REGULATIONS**

The above-mentioned regulations were promulgated in the Govt. Gazette on Friday, 18 July 2003 under the Occupational Health & Safety Act (85 of 1993) and are now in force.

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

- (a) The Contractor undertakes to acquaint the appropriate officials and employees of the Contractor with all the relevant provisions of the Act and the regulations promulgated in terms of the Act, and the Employer's Health and Safety Specifications included in the contract documents.
- (b) The Contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the Act and Regulations and the Employer's Health and Safety Specifications included in the contract documents will be complied with in all respects.
- (c) In relation to any work or activity performed by the Contractor, his workmen or any other person for whose acts or omissions the Contractor is responsible in terms of the Contract, the Contractor hereby accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and Regulations and expressly absolves the Employer from itself being obliged to comply with any of the aforesaid duties, obligations and prohibitions.
- (d) 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 set out more fully in paragraphs (a) and (b) above, which steps may include, but will not be limited to, the right to inspect any appropriate site or premises occupied by the Contractor, or to inspect any appropriate records held by the Contractor.
- (e) The Contractor shall be obliged to report forthwith in writing to the Representative/Agent full details of any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the Act and Regulations, pursuant to work performed in terms of this Contract.
- (f) Forward "safety meeting" minutes to the representative/Agent.

For the Employer: \_\_\_\_\_ Date: \_\_\_\_\_

Witnesses: 1) : \_\_\_\_\_ 2) : \_\_\_\_\_

For the Contractor: \_\_\_\_\_ Date: \_\_\_\_\_

Witnesses: 1) : \_\_\_\_\_ 2) : \_\_\_\_\_

**Contract**

**Annexures B/12**

**Annexure B  
Occupational Health and Safety Specification**

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

**ANNEXURE "B"**

**NOTIFICATION OF CONSTRUCTION WORK**

**Contract**

**Annexures B/13**

**Annexure B  
Occupational Health and Safety Specification**

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

**NOTIFICATION OF CONSTRUCTION WORK**  
(Regulation 3 of the Construction Regulations, 2003)

**1. CONTRACTOR**

1.1 Name and postal address of Contractor :

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1.2 Name and telephone number of Contractor's contact person :

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1.3 Contractor's compensation registration number :

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1.4 Name and telephone number of Contractor's Construction Supervisor :

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1.5 Physical address of the construction site or site office:

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1.5 Estimated number of persons on the construction site :

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1.6 Estimated number of Subcontractors on the construction site accountable to the Contractor :

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**2. EMPLOYER**

2.1 Name and postal address of Employer :

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2.2 Name and telephone number of Employer's Principal Agent:

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**3. DESIGN CONSULTANTS**

3.1 Name and postal address of design consultants:

3.1.1 Construction project managers:

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3.1.2 Architects:

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3.1.3 Structural engineer :

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3.1.4 Electrical engineer:

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3.1.5 Mechanical engineer :

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3.1.6 Civil engineer :

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3.1.7 Security engineer :

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3.1.8 Other (if any) :

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3.2 Name and telephone number of design consultant's contact person :

3.2.1 Construction project managers :

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3.2.2 Architects :

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3.2.3 Structural engineer :

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3.2.4 Electrical engineer :

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3.2.5 Mechanical engineer :

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3.2.6 Civil engineer :

---

3.2.7 Security engineer :

---

3.2.8 Other (if any) :

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**4. THE WORKS**

Nature of the works :

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Commencement date :

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Completion date :

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Contractor: \_\_\_\_\_ Date: \_\_\_\_\_

Employer: \_\_\_\_\_ Date: \_\_\_\_\_

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

ALL CONTRACTORS THAT QUALIFY TO NOTIFY MUST DO SO EVEN IF ANOTHER CONTRACTOR ON THE SITE HAD DONE SO PRIOR TO THE COMMENCEMENT OF WORK.

*Annexure C*

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# **ANNEXURE C**

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## **Environmental Management Plan**

**Contract**

**Annexure C/1**

**Annexure C  
Environmental Management Plan**

Contract No.: DLM 09/2017: Construction of Sewer Reticulation and Top Structures in Siyathemba Ext. 5 & 6

## **C.1 General**

In order to ensure that the construction works is carried out in an environmentally sensitive matter, strict compliance to the Environmental Management Plan and specifications is required. The purpose of the EMP&S 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.

## **C.2 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 sub-contractors, casual labour, etc.). The CMP shall be part of the terms of reference for all contractors, sub-contractors and suppliers.

## **C.3 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 site manager, who will respond.

The following information must be recorded:

- Time, date and nature of the complaint,
- Type of communication (telephone, letter etc),
- 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,
- Actions taken and by whom.

## **C.4 Site Cleanliness and Neatness**

Location of a construction camp is to be approved by the Engineer 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.

## **C.5 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.

## **C.6 Borrow Pits**

Mining authorisations (permits) for borrow pits must be obtained from the Department of Minerals and Energy (DME) in consultation with the Department of Water Affairs and Forestry (DWAF).

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 DME and DWAF.

## **C.7 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 conditions and that emissions are not excessive.
- Ensure that vehicles and equipment are in good working conditions 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.

## **C.8 Fauna**

- Contractor staff may not chase, catch or kill animals encountered during construction.

## **C.9 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 owner's lands.

## **C.10 Grave Sites**

- Gravesites in close proximity to the road must not be disturbed during construction.

## **C.11 Materials Handling and Spills Management**

- Any hazardous materials to be used during construction (e.g. lime, fuel, paint, etc) are to be stored in a designated area at the campsite.
- The storage containers/facilities (including any diesel/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, turpentine, etc).
- 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.

#### **C.12 Noise**

- Noise generating activities must be restricted to between 07h00 and 17h00 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.

#### **C.13 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.

#### **C.14 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.

#### **C.15 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.

#### **C.16 Soil Management**

- Stormwater 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 stormwater.

- Spoil from cuts may be used in existing erosion galleys.
- 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 the aid in cleaning up the spill. The contaminated soil should be disposed of in an appropriate container, depending on its classification.
- Servicing and re-fuelling of vehicles must only be carried out at construction camp.

#### **C.17 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.

#### **C.18 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.

#### **C.19 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.

#### **C.20 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, contaminated wash water, etc) 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 Project Manager.
- Each working area must be cleared of litter and building waste (e.g. rubble, wood, concrete packets etc) on completion of the day's work.
- Any spill around the container(s) should be treated as per Section C11 and C16.

## **ANNEXURE “D”**

### **LIST OF DRAWINGS**

- **NKP360\_GML01 (General Master Layout Plan)**
- **NKP360\_TS 001 (Sewer Typical)**
- **NKP360\_TS 002 (Sewer Typical)**
- **NKP360\_TS 003 (Sewer Typical)**
- **NKP360\_TS 004 (Sewer Typical)**