



**CLUSTER**  
Human Settlement, Engineering, and Transport

**UNIT**  
Engineering

**DEPARTMENT**  
Development Engineering

**PROCUREMENT DOCUMENT**  
**INFRASTRUCTURE**

Documents are to be obtained, free of charge, in electronic format, from the National Treasury's eTenders website or the eThekweni Municipality's website.

**Contract No: 3V-29012**

**Contract Title: The Construction of Illovo Dangerous Goods Heavy Vehicle Inspection Facility (Ward 109)**

**Est. CIDB Grade/ Class: 5 CE**

**CLARIFICATION MEETING AND QUERIES**

**Clarification Meeting: Compulsory Clarification Meeting**

**Meeting Location, Date, Time: 2 Liberty Road, Illovo on 17 May 2024 at 11h00**

**Queries can be addressed to: Liso Gqobo**  
**Tel: 031-322-9487**  
**The Employer's Agent's: eMail: liso.gqobo@durban.gov.za. Email queries to be submitted by**  
**Representative: 30 May 2024 and consolidated answers to questions will be**  
**uploaded 06 June 2024.**

**TENDER SUBMISSION**

**Delivery Location: The Tender Box in the foyer of the Municipal Building**  
**166 KE Masinga Road, Durban**

**Closing Date/ Time: Friday, 21 June 2024 at 11h00**

**FACSIMILE, eMAIL, or POSTED TENDERS WILL NOT BE ACCEPTED**

**Issued by:**

**ETHEKWINI MUNICIPALITY**

**Deputy Head: Development Engineering**

**Date of Issue: 10/05/2024**

Document Version 01/03/2024

**FOR OFFICIAL USE ONLY**

Tenderer Name:		VAT Registered: Yes No
	Price (excl)	VAT
		Price (incl)
Submitted: R	R	R
Corrected: R	R	R

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**PART T1: TENDERING PROCEDURES****T1.1.1: TENDER NOTICE AND INVITATION TO TENDER**

Tenders are hereby invited for the works to the Construction of Illovo Dangerous Goods Heavy Vehicle Inspection Facility, Ward 109 for a period of twelve (12) months.

<b>Subject</b>	<b>Description</b>	<b>Tender Data Ref.</b>
<b>Employer</b>	The Employer is the eThekweni Municipality as represented by: Deputy Head: <b>Development Engineering</b>	F.1.1.1
<b>Tender Documents</b>	Documents can only be obtained in electronic format, issued by the eThekweni Municipality. Documentation can be downloaded from the <b>National Treasury's eTenders website</b> or the <b>eThekweni Municipality's Website</b> . The <u>entire document</u> should be printed (on A4 paper) and suitably bound by the tenderer.	F.1.2
<b>Eligibility</b>	It is <u>estimated</u> that tenderers should have a CIDB contractor grading designation of <b>5 CE</b> (or higher). The CIDB provisions in relation to a Contractor's Potentially Emerging (PE) status <u>do not</u> apply.	F.2.1.1
<b>Clarification Meeting</b>	<b>2 Liberty Road, Illovo on 17 May 2024 at 11h00</b>	F.2.7
<b>Seek Clarification</b>	Queries relating to these documents are to be addressed to the Employer's Agent's Representative whose contact details are: <b>Liso Gqobo</b> <b>Tel: 031-322-9487</b> <b>eMail: liso.gqobo@durban.gov.za</b>	F.2.8
<b>Submitting a Tender Offer</b>	Tender offers shall be delivered to: <b>The Tender Box in the foyer of the Municipal Building</b> <b>166 KE Masinga Road, Durban</b>  <b>Bidders are required to also make an</b> electronic submission via SSS. Bidders must ensure that the hard copy and electronic submission are the same, failing which the submission will be deemed invalid. Bidders are responsible for resolving all access rights and submission queries before the tender closing date.  <b>Technical Queries SSS:</b> Jabulani Chauke: 031-322 9535: Queries - email: <a href="mailto:Jabulani.chauke@durban.gov.za">Jabulani.chauke@durban.gov.za</a>  <b>SSS Queries Contact Lindo Dlamini:</b> Tel: 031-3227133/031-3227153 email: <a href="mailto:selfservice@durban.gov.za">selfservice@durban.gov.za</a>	F.2.13
<b>Closing Time</b>	Tender offers shall be delivered on or before <b>Friday, 21 June 2024</b> at or before <b>11h00</b> .	F.2.15
<b>Evaluation of</b>	<b>The 80/20</b> Price Preference Point System, as specified in the PPPFA	F.3.11

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**Tender Offers** Regulations 2022 will be applied in the evaluation of tenders. Refer to Clause F.3.11 of the Tender Data for the **Specific Goal(S)** for the awarding of Preference Points, and other related evaluation requirements.

Requirements for sealing, addressing, delivery, opening and assessment of tenders are further stated in the Tender Data

## PART T1: TENDERING PROCEDURES

### T1.2: TENDER DATA

#### **T1.2.1 STANDARD CONDITIONS OF TENDER**

The conditions of tender are the Standard Conditions of Tender as contained in Annex F of the CIDB Standard for Uniformity in Construction Procurement (July 2015) as published in Government Gazette No 38960, Board Notice 136 of 2015 of 10 July 2015.

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.

#### **T1.2.2 TENDER DATA**

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

### **F.1: GENERAL**

**F.1.1 The employer:** The Employer for this Contract is the eThekweni Municipality as represented by: Deputy Head: **Development Engineering**

**F.1.2 Tender documents:** The Tender Documents issued by the Employer comprise:

- 1) This procurement document.
- 2) "General Conditions of Contract for Construction Works – 3<sup>rd</sup> Edition 2015" issued by the South African Institution of Civil Engineering (GCC 2015). This document is obtainable separately, and Tenderers shall obtain their own copies.
- 3) "City of Durban Technical Specifications" hereinafter referred to as the Standard Engineering Specifications. This document is obtainable separately, and Tenderers shall obtain their own copies of the applicable Sections.
- 4) Drawings, issued separately from this document, or bound in Section C3.4 (as an Annexure).
- 5) In addition, Tenderers are advised, in their own interest, to obtain their own copies of the following acts, regulations, and standards referred to in this document as they are essential for the Tenderer to get acquainted with the basics of construction management, the implementation of preferential construction procurement policies, and the participation of targeted enterprise and labour.
  - The Employer's current (as at advertising date) Supply Chain Management Policy.
  - The Preferential Procurement Policy Framework Act No 5 of 2000, and the Preferential Procurement Policy Framework Act Regulations (2022).
  - The Occupational Health and Safety Act No 85 and Amendment Act No 181 of 1993, and the Construction Regulations (2014).
  - The Construction Industry Development Board Act No 38 of 2000 and the Regulations issued in terms of the Act (July 2013).
  - SANS 1921:2004 – Construction and Management Requirements for Works Contract, Parts 1-3.
  - Any other eThekweni Policy documents referenced in the Tender Documents.

Electronically downloaded documentation is obtainable from the National Treasury's **eTenders Website** or the **eThekwini Municipality's Website** at URLs:

- <https://www.etenders.gov.za/>
- <https://www.durban.gov.za/pages/business/procurement>

The entire downloaded document should be printed on white A4 paper (single-sided) and suitably bound by the tenderer.

**F.1.4 Communication and employer's agent:** The Employer's Agent is:

Name: Andrew Moyo  
 Tel: 031-311-7849  
 eMail: [andrew.moyo@durban.gov.za](mailto:andrew.moyo@durban.gov.za)

The Employer's Agent's Representative is:

**Liso Gqobo**  
**Tel: 031-322-9487**  
**eMail: [liso.gqobo@durban.gov.za](mailto:liso.gqobo@durban.gov.za)**

The Tenderer's contact details, as indicated in the Contract Data: Clause C1.2.2.2 "Data to Be Provided by Contractor", shall be deemed as the only valid contact details for the Tenderer for use in communications between the Employer's Agent and the Tenderer.

## F.2: TENDERER'S OBLIGATIONS

**F.2.1.1 Eligibility: General**

A Tenderer will not be eligible to submit a tender if:

- (a) the Tenderer does not comply with the legal requirements as stated in the Employer's current SCM Policy.
- (b) the Tenderer cannot provide proof that he is in good standing with respect to duties, taxes, levies and contributions required in terms of legislation applicable to the work in the contract.
- (c) In the event of a Compulsory Clarification Meeting:
  - i) the Tenderer fails to attend the Compulsory Clarification Meeting.
  - ii) the Tenderer fails to have form "Certificate of Attendance at Clarification Meeting / Site Inspection" (in T2.2) signed by the Employer's Agent or his representative.
- (d) in the case of JV submissions, two or more JV entities have common directors / shareholders or common entities tendering for the same works.
- (e) at the time of closing of tenders, the Tenderer is not registered on the National Treasury Central Supplier Database (CSD) as a service provider. In the case of a Joint Venture, this requirement will apply individually to each party in the Joint Venture.
- (f) The tenderer has not submitted, with this tender, a valid Letter of Good Standing from the Compensation Commissioner as proof of being registered and in good standing with the compensation fund. Reference is to be made to Returnable Document T2.2.13.
- (g) The tender fails to complete and sign the Declaration of Municipal Fees in T2.2: "Returnable Documents" and submits the required documentation. Reference is to be made to Returnable Document T2.2.12.

SCM Policy (CI.14(4)) requires suppliers/ service providers/ contractors to be registered on the eThekweni Municipality Central Supplier Database or be in a position to be so before the award.

In the event of the Tenderer not being registered on the eThekweni Municipality's Central Supplier Database, the tenderer must register on the internet at [www.durban.gov.za](http://www.durban.gov.za) by following these links:

- Business
- Supply Chain Management (SCM)
- Accredited Supplier and Contractor's Database.

The following are to be noted:

- (a) The information for registration as in the possession of the eThekweni Municipality will apply.
- (b) It is the Tenderer's responsibility to ensure that the details as submitted to the Municipality are correct.
- (c) Tenderers are to register prior to the submission of tenders.

#### F.2.1.2 Eligibility: CIDB

Only those tenderers who are registered (as "Active") with the CIDB (at time of tender closing), in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations, for a **5 CE** class of construction work, are eligible to have their tenders evaluated.

Joint ventures are eligible to submit tenders provided that:

- (a) Every member of the joint venture is registered (as "Active") with the CIDB (at time of tender closing),
- (b) The lead partner has a contractor grading designation in the **CE** class of construction work and has a grading designation of not lower than one level below the required grading designation, and
- (c) The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations (2013) is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a **5 CE** class of construction work or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations.

It should be noted that this contract is not part of a Targeted Development Programme (TDP). The CIDB provisions in relation to a Contractor's Potentially Emerging (PE) status do not apply.

#### F.2.1.3 Eligibility: Tenderer's Experience

Only those tenderers that can demonstrate experience, by the submission of the specified returnable document in T2.2 (duplicated for each experience submission), and supply the associated documentation/ information, in works of a similar nature, within the past 7 years, will be eligible to have their tenders evaluated in terms of Clause F.3.11.

Tenderers must submit experience gained as Main Contractors.

**Returnable form T2.2.16: “Eligibility: Experience of Tenderer” is to be duplicated for each experience submission, as may be required.**

Contact details of the Client, is required to be provided on the above-mentioned form. The contact details may be used by the Employer to verify the information, pertaining to the experience submission, as provided by the Tenderer. Should the Employer’s reasonable attempts to make contact with the Client, to verify the information provided, fail (for whatever reason), that specific experience submission will be considered invalid.

Where works are still in progress the value of completed work as detailed on the most recent payment to the Contractor is to be used in the experience submission.

In the event of a Joint Venture (JV) tendering for this contract, experience gained by the separate entities making up the JV may be used as experience provided that the experience requirement, as stipulated in **Table 2**, is satisfied, and that the required documentation/ information is provided.

The documentation/ information that is required is specified on **Table 1**: “Documentation / Information Requirements” (which includes the Notes below the table), and the experience requirement is as stated on **Table 2**: “Tenderer’s Experience Requirement”.

**Table 1: Documentation / Information Requirements**

Note: an “X” in this table indicates that the associated documentation must be provided, if applicable.	Proof of Sub-Contract Agreement	Letter of Award OR Form of Offer & Acceptance	Most recent Payment Certificate OR Invoice with Quantities summary	Final Payment Certificate OR Invoice with Quantities summary	Completion Certificate	<b>NB</b> Scope of Work
	<b>Note 1</b>	<b>Note 2</b>	<b>Note 3</b>	<b>Note 4</b>	<b>Note 5</b>	<b>Note 6</b>
Works as Main Contractor						
Current Contracts	/	X	X	/	/	X
Completed Contracts	/	X	/	X	X	X
<b>Failure to submit the returnable form T2.2.16, and provide the above supporting documentation/ information, for each submission of experience, will invalidate that experience submission</b>						

**Table 1: NOTES**

Note 1	Must include the names of the parties, the managing entity’s name, the effective dates, and the signature(s) page, all pertaining to the agreement.
Note 2	Issued by the Client / Employer.
Note 3	Proof of the most recent payment received from the Client/ Employer, OR most recent submitted INVOICE, with a summary breakdown of quantities.
Note 4	Proof of the final payment received from the Client/ Employer, OR most recent submitted INVOICE, with a summary breakdown of quantities.
Note 5	Issued by the Client/ Employer.
Note 6	<p><b>NB: Without this information the experience submission cannot be considered.</b></p> <ul style="list-style-type: none"> <li>This submission must indicate how the works carried out, as a Main Contractor, is similar (see Table 2: Tenderer’s Experience Requirement) to the Scope-of-Work of this specific tender.</li> <li>The description of the Scope-of-Work is to be inserted into the returnable form in T2.2.16, or if available as a hard copy (max. 2 pages) attached to the form with the other relevant, associated, supporting documentation.</li> </ul>

**Table 2: Tenderer's Experience Requirement****Provision of Road-Related Structures**

Projects of a similar nature that will be considered will be one, or a combination of, the following types of projects:

1. Projects of a similar nature that will be considered will be one, or a combination of, the following types of projects: new road construction, road widening/upgrades, intersection improvements, gravel to surfaced road upgrades, access road upgrades and major parking areas.
2. Each project must consist of at least two of the following elements: bulk earthworks, roadway layer-works, kerbing / channelling, sidewalk / walkway construction, traffic calming measures, stormwater drainage, retaining structures, dealing with underground services (watermains, sewers, electricity / communication infrastructure).
3. Concrete wearing course construction.
4. Reinforced concrete repairs (spalling, member replacement, use of specialist products etc).
5. Reinforced concrete pedestrian bridges.
6. Paving.

**Experience Requirement: Contract(s) with works of a similar nature, within the past 7 years**

A minimum of 3 contracts, each with a value of 60% of the tender value submitted for this tender. Contracts must have been executed as the Main Contractor.

**Note:** **The failure to complete the relevant returnable form T2.2.16 for each submission of experience AND supply the associated, relevant, documentation (as specified on Table 1) will invalidate the experience submission.**

**F.2.2.2 The cost of the tender documents:** Replace this paragraph with the following:

"Documents are to be obtained, free of charge, in electronic format, from the **National Treasury's eTenders website** or the **eThekwini Municipality's Website**. The entire electronically downloaded document should be printed on white A4 paper (single-sided) and suitably bound by the tenderer.

**F.2.6 Acknowledge addenda:** Add the following paragraphs to the clause:

"Addenda will be published, in electronic format, on the websites specified in F.1.2. Tenderers are to ensure that the eTenders website is consulted for any published addenda pertaining to this tender up to three days before the tender closing time as stated in the Tender Data."

"Acknowledgement of receipt of the addenda will be by the return of the relevant completed, dated, and signed portion of the addenda, to the physical or email address as specified on the addenda. Failure of the tenderer to comply with the requirements of the addenda may result in the tender submission being made non-responsive."

**F.2.7 Clarification meeting:**  
**2 Liberty Road, Illovo on 17 May 2024 at 11h00**

In the event of a Compulsory Clarification Meeting, Tenderers must sign the attendance register in the name of the tendering entity. The Tenderer's representative(s) at the clarification meeting must be able to clearly convey the discussions at the meeting to the person(s) responsible for compiling the entity's tender offer.

**F.2.12 Alternative tender offers:** No alternative tender offers will be considered.

**F.2.13 Submitting a tender offer:** Submissions must be submitted on official submission documentation issued (either in hard copy or in electronic format) by the eThekwini Municipality.

Identification details to be shown on each tender offer package are:

- Contract No. : **3V-29012**
- Contract Title : **The Construction of Illovo Dangerous Goods Heavy Vehicle Inspection Facility (Ward 109)**

The Employer's address for delivery of tender offers is:

**The Tender Box in the foyer of the Municipal Building  
166 KE Masinga Road, Durban**

Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.

**F.2.15 Closing time:** The closing time for delivery of tender offers is:

- Date : **Friday, 21 June 2024**
- Time : **11h00**

**F.2.16 Tender offer validity:** The Tender Offer validity period is 120 Days from the closing date for submission of tenders.

**F.2.20 Submit securities, bonds, policies:** The tenderer is required to submit with his tender a letter of intent from an approved insurer undertaking to provide the Performance Bond to the format included in T2.2 of this procurement document.

**F.2.23 Certificates:** Refer to T2.1 for a listing of certificates that must be provided with the tender. All certificates must be valid at the time of tender closing.

**Tenderers are to include, at the back of their tender submission document, a printout of the required documents/ certificates.**

The Form of Offer (C1.1.1), Data to be provided by the Contractor (C1.2.2.2), and the Bill of Quantities (C2.2) are also required to be completed in full.

#### **Tax Clearance**

Reference is also to be made to returnable form T2.2.3: "Tax Compliance Status PIN/ Tax Clearance Certificate".

SARS has introduced a new Tax Compliance Status System. Tenderers must submit a **Tax Compliance Status PIN** (TCS PIN) instead of an original Tax Clearance Certificate. This TCS PIN can be used by third parties to certify the taxpayer's real-time compliance status. This TCS PIN is to be entered on Returnable Document T2.2.1: "Compulsory Enterprise Questionnaire". Separate Tax Clearance Certificates / TCS PINs are required for each entity in a Joint Venture.

Failure to comply will make the tender non-responsive.

#### **Compensation Commissioner**

Reference is also to be made to returnable form T2.2.13: "Eligibility: Registration with Compensation Commissioner".

The tenderer is to supply proof of being registered and in good standing with the compensation fund by submitting a valid **Letter of Good Standing** from the Compensation Commissioner.

Failure to comply will make the tender non-responsive.

#### **Central Supplier Database (CSD)**

Reference is also to be made to returnable form T2.2.14: "Eligibility: CSD Registration Report".

The entities (full) **CSD Registration Report**, obtained from the National Treasury Central Supplier Database, is to be included in the tender submission ( <https://secure.csd.gov.za> ).

Separate CSD Registration Reports are required for each entity in a Joint Venture.

### **CIDB Registration**

Reference is also to be made to returnable form T2.2.15: "Eligibility: Verification of CIDB Registration and Status".

Registration with the CIDB must be reflected as "Active" at time of tender closing.

Tenderers are to include with their submission a printout of their **CIDB Registration**, obtained from the CIDB website ( <https://registers.cidb.org.za/PublicContractors/ContractorSearch> ).

The Joint Venture Grading Designation Calculator should be used when submitting as a Joint Venture ( <https://registers.cidb.org.za/PublicContractors/JVGradingDesignationCalc> ).

The date of obtaining the CIDB printout(s) is to be indicated on the printout.

## **F.3: THE EMPLOYER'S UNDERTAKINGS**

**F.3.1.1 Respond to requests from the tenderer:** Replace the words "five working days" with "three working days".

**F.3.2 Issue addenda:** Add the following paragraph: "Addenda will be published, in electronic format, on the same platform(s) as the Tender Notification (refer to F.1.2)."

**F.3.4 Opening of Tender Submissions:** Tenders will be opened immediately after the closing time for tenders. The public reading of tenders will take place in the SCM Boardroom, 6<sup>th</sup> Floor, Engineering Unit Building, 166 KE Masinga Road, Durban.

**F.3.11 Evaluation of Tender Offers:**

### **Eligibility**

Tenders will be checked for compliance with the ELIGIBILITY requirements, as specified in T1.2.2 Clause F.2.1. Tenderers not in compliance will be deemed non-responsive.

### **Preference Point System**

The procedure for the evaluation of responsive tenders is **PRICE AND PREFERENCE** in accordance with the Employer's current SCM Policy, the Preferential Procurement Policy Framework Act (5 of 2000), and the Preferential Procurement Policy Framework Act Regulations (2022).

### **Price Points**

The **80/20** preference points system will be applied. The Formula used to calculate the **Price Points (max. 80)** will be according to that specified Regulation 4.1.

### **Preference Points**

Reference is also to be made to T2.2.7: "MBD 6.1: Preference Points Claim".

The Preference Points (20) will be derived from points allocated/ claimed for **Specific Goals** as indicated in the table(s) below, according to the specified **Goal/ Category Weightings**.

- **Ownership Goal**

Goal Weighting: 60%

The tendering entity's **Percentage Ownership**, in terms of the **Ownership Category(s)** listed below, is to be used in the determination of the tenderer's claim for **Preference Points**.

<b>Ownership Categories</b>	<b>Criteria</b>	<b>80/20</b>
<b>Race: Black (w1)</b>	Equals 0%	0
	Between 0% and 51%	2.88
	Greater or equal to 51% and less than 100%	5.76
	Equals 100%	7.2
<b>Gender: Female (w2)</b>	Equals 0%	0
	Between 0% and 51%	1.68
	Greater or equal to 51% and less than 100%	3.36
	Equals 100%	4.2
<b>Disabilities (w3)</b>	Equals 0%	0
	Between 0% and 51%	0.24
	Greater or equal to 51% and less than 100%	0.48
	Equals 100%	0.6
<b>Maximum Goal Points:</b>		<b>12</b>

The **Weightings** of the **Ownership Categories** will be:

- w1 = 60%, w2=35%, w3=5% (where: w1 + w2 + w3 = 100%)

**Proof of claim as declared on MBD 6.1** (1 or more of the following will be used in verifying the tenderer's status)

- Companies and Intellectual Property Commission registration document (CIPC)
- CSD report.
- B-BBEE Certificate of the tendering entity.
- Consolidated BBBEE Certificate if the tendering entity is a Consortium, Joint Venture, or Trust (Issued by verification agency accredited by the South African Accreditation System).
- Agreement for a Consortium, Joint Venture, or Trust.

- **RDP Goal: The promotion of South African owned enterprises**

Goal Weighting: 30%

The tendering entity's **Address** (as stated on the National Treasury Central Supplier Database (CSD) or on the eThekweni Municipality Vendor Portal) is to be used in the determination of the tenderer's claim for **Preference Points** for this Specific Goal.

<b>Location</b>	<b>80/20</b>	
Not in South Africa	0	
South Africa	1.5	
Kwa Zulu Natal	3	
eThekweni Municipality	6	
<b>Maximum Goal Points:</b>		<b>6</b>

**Proof of claim as declared on MBD 6.1** (1 or more of the following will be used in verifying the tenderer's status)

- CSD report

- **RDP Goal: The promotion of enterprises located in a specific municipal area**

Goal Weighting: 10%

The tendering entity's **Address** (as stated on the National Treasury Central Supplier Database (CSD) or on the eThekweni Municipality Vendor Portal) is to be used in the determination of the tenderer's claim for **Preference Points** for this Specific Goal.

<b>Municipal Area</b>	<b>80/20</b>
Not within eThekweni Municipality	0
Within eThekweni Municipality	0.5
Within the specified region / Adjoining Wards	1
Within the specified zone / Project Ward(s)	2
<b>Maximum Goal Points:</b>	<b>2</b>

**Proof of claim as declared on MBD 6.1** (1 or more of the following will be used in verifying the tenderer's status)

- CSD Report

**F.3.13 Acceptance of tender offer:** In addition to the requirements of Clause F.3.13 of the Standard Conditions of Tender, tender offers will only be accepted if:

- The tenderer submits a **valid Tax Clearance Certificate OR Tax Compliance Status PIN**, issued by the TCS System of the South African Revenue Services, or has made arrangements to meet outstanding tax obligations.
- The tenderer is **registered, and "Active", with the Construction Industry Development Board**, at time of tender closing, in an appropriate contractor grading designation.
- The tenderer or any of its directors/shareholders is **not listed on the Register of Tender Defaulters** in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector.
- The tenderer has not:
  - Abused the Employer's Supply Chain Management System; or
  - Failed to perform on any previous contract and has been given a written notice to this effect.
- The tenderer has completed the **Compulsory Enterprise Questionnaire** and there are no conflicts of interest which may impact on the tenderer's ability to perform the contract in the best interests of the Employer or potentially compromise the tender process.
- The tenderer is **registered and in good standing with the compensation fund or with a licensed compensation insurer**.
- The Employer is reasonably satisfied that the tenderer has in terms of the Construction Regulations, 2014, issued in terms of the Occupational Health and Safety Act, 1993, the **necessary competencies and resources to carry out the work safely**.

The Municipality does not bind itself to accept the lowest or any tender. It reserves the right to accept the whole or any part of a tender to place orders. Bidders shall not bind the Municipality to any minimum quantity per order. The successful Tenderer (s) shall be bound to provide any quantities stipulated in the specification.

The municipality has a firm intention to proceed with the work, subject to funding being identified. Notwithstanding clause F.1.1.3 of the Standard Conditions of Tender, the municipality reserves the right to award or not award the tender based on the municipalities available budget.

**F.3.15 Complete adjudicator's contract:** Refer to the General Conditions of Contract and the Contract Data.

**T1.2.3 ADDITIONAL CONDITIONS OF TENDER****T1.2.3.1 Appeals**

In terms of Regulation 49 of the Municipal Supply Chain Management Regulations persons aggrieved by decisions or actions taken by the Municipality, may lodge an appeal within 14 days of the decision or action, in writing to the Municipality. All appeals (clearly setting out the reasons for the appeal) and queries with regard to the decision of award are to be directed to:

The City Manager  
Attention Ms S. Pillay      eMail: Simone.Pillay@durban.gov.za  
P O Box 1394  
DURBAN, 4000

**T1.2.3.2 Prohibition on awards to persons in the service of the state**

Clause 44 of the Supply Chain Management Regulations states that the Municipality or Municipal Entity may not make any award to a person:

- (a) Who is in the service of the State;
- (b) If that person is not a natural person, of which a director, manager, principal shareholder or stakeholder is a person in the service of the state; or
- (c) Who is an advisor or consultant contracted with the municipality or a municipal entity.

Should a contract be awarded, and it is subsequently established that Clause 44 has been breached, the Employer shall have the right to terminate the contract with immediate effect.

**T1.2.3.3 Code of Conduct and Local Labour**

The Tenderers shall make themselves familiar with the requirements of the following policies that are available on web address: <ftp://ftp.durban.gov.za/cesu/StdContractDocs/>:

- Code of Conduct;
- The Use of CLOs and Local Labour.

**T1.2.3.4 Targeted Procurement**

Targeted Procurement provisions are not applicable to this tender.

**T1.2.3.5 Functionality Specification**

Functionality Evaluation is not applicable to this tender.

## **PART T2: RETURNABLE DOCUMENTS**

### **T2.1 LIST OF RETURNABLE DOCUMENTS**

#### **T2.1.1 General**

The Tender Submission Documentation must be submitted in its entirety. All forms must be properly completed as required.

The Tenderer is required to complete each and every Schedule and Form listed below to the best of their ability as the evaluation of tenders and the eventual contract will be based on the information provided by the Tenderer. Failure of a Tenderer to complete the Schedules and Forms to the satisfaction of the Employer will inevitably prejudice the tender and may lead to rejection on the grounds that the tender is non-responsive.

#### **T2.1.2 Returnable Schedules, Forms and Certificates**

##### **Entity Specific**

T2.2.1	Compulsory Enterprise Questionnaire .....	16
T2.2.2	Certificate of Attendance at Clarification Meeting .....	18
T2.2.3	Tax Compliance Status PIN.....	19
T2.2.4	Contractor's Health and Safety Declaration.....	20
T2.2.5	MBD 4: Declaration of Interest .....	22
T2.2.6	MBD 5: Declaration for Procurement Above R10 Million .....	24
T2.2.7	MBD 6.1: Preference Points Claim Form ITO the Preferential Regulations .....	25
T2.2.8	MBD 8: Declaration of Bidder's Past SCM Practices.....	28
T2.2.9	MBD 9: Certificate of Independent Bid Determination.....	30
T2.2.10	Joint Venture Agreements (if applicable).....	33
T2.2.11	Record of Addenda to Tender Documents (if applicable).....	34

##### **Eligibility**

T2.2.12	Eligibility: Declaration of Municipal Fees .....	35
T2.2.13	Eligibility: Registration with Compensation Commissioner .....	36
T2.2.14	Eligibility: CSD Registration Report .....	37
T2.2.15	Eligibility: Verification of CIDB Registration and Status .....	38
T2.2.16	Eligibility: Experience of Tenderer .....	39

**T2.2 RETURNABLE SCHEDULES, FORMS, AND CERTIFICATES**

The returnable schedules, forms, and certificates, as listed in T2.1.2, can be found on pages 16 to 34.

**NOTE**

The **Form of Offer** (C1.1.1), The **Data to be Provided by Contractor** (C1.2.2.2), and the **Bill of Quantities** (C2.2) are also required to be completed by the tenderer.

**T2.2.1 COMPULSORY ENTERPRISE QUESTIONNAIRE**

Ref	Description	Complete or Circle Applicable	
1.1	Name of enterprise		
1.2	Name of enterprise's representative		
1.3	ID Number of enterprise's representative		
1.4	Position enterprise's representative occupies in the enterprise		
1.5	National Treasury Central Supplier Database Registration number	<b>MAAA</b>	
1.6	eThekwini Supplier Database: Reference number (PR), if any:	<b>PR</b>	
1.7	VAT registration number, if any:		
1.8	CIDB registration number, if any:		
1.9	Department of Labour: Registration number		
1.10	Department of Labour: Letter of Good Standing Certificate number		
<b>2.0 Particulars of sole proprietors and partners in partnerships (attach separate pages if more than 4 partners)</b>			
	<b>Full Name</b>	<b>Identity No.</b>	<b>Personal income tax No. *</b>
2.1			
2.2			
2.3			
2.4			
<b>3.0 Particulars of companies and close corporations</b>			
3.1	Company registration number, if applicable:		
3.2	Close corporation number, if applicable:		
3.3	Tax Reference number, if any:		
3.4	South African Revenue Service: Tax Compliance Status PIN:		

**4.0 Record in the service of the state** (Insert on a separate page if necessary)

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

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

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 mths

**5.0 Record of spouses, children and parents in the service of the state** (Insert on a separate page if necessary)

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 in the service of any of the following:

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

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

- i) authorizes the Employer to verify the tenderers tax clearance status from the South African Revenue Services that it is 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.
- v) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

**NAME (Block Capitals):**

**Date**

.....

**SIGNATURE:**

.....

**T2.2.2 CERTIFICATE OF ATTENDANCE AT CLARIFICATION MEETING / SITE INSPECTION**

Reference is to be made to Clauses F.2.1(c) and F.2.7 of the Tender Data.

This is to certify that:

(entity name): \_\_\_\_\_  
of (address): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

was represented by the person(s) named below at the Clarification Meeting held for all tenderers, the details of which are stated in the Tender Data (F.2.7).

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

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

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

**T2.2.3 TAX COMPLIANCE STATUS PIN**

Reference is to be made to Clauses F.2.23 and F.3.13(a) of the Tender Data.

SARS has introduced a new Tax Compliance Status System. Tenderers can submit a Tax Compliance Status PIN (TCS PIN) instead of an original Tax Clearance Certificate. This TCS PIN can be used by third parties to certify the taxpayer’s real-time compliance status.

Separate TCS PINs are required for each entity in a Joint Venture.

The TCS PIN(s) are to be entered under item 3.4 on form **T2.1.2.1: Compulsory Enterprise Questionnaire**.

**Tenderers are to include, at the back of their submission document, a printout of their Tax Compliance Status PIN (TCS PIN) OR an original Tax Clearance Certificate.**

**Failure to include the required document will make the tender submission non-responsive.**

*I, the undersigned, who warrants that they are authorised to sign on behalf of the entity, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, and that the requested documentation has been included in the submission.*

**NAME (Block Capitals):**

**Date**

.....

**SIGNATURE:**

.....

\_\_\_\_\_

**T2.2.4 CONTRACTOR'S HEALTH AND SAFETY DECLARATION**

**If Functionality is applicable as part of tender evaluation, reference is to be made to Clause F3.11.9 of the of the Conditions of Tender.**

Reference is to be made to Clauses F.2.1(e) and F.2.23 of the Tender Data.

In terms of Clause 5(1)(h) of the OHS Act 1993 Construction Regulations 2014 (referred to as "the Regulations" hereafter), a Principal Contractor may only be appointed to perform construction work if the Client is satisfied that the Principal 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 2014.

To that effect, a person duly authorised 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 2014.
- 2 I hereby declare that my company 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 propose to achieve compliance with the Regulations by one of the following **(Tenderers are to Circle Applicable - Yes or No):**

Circle Applicable	
Yes	NO
Yes	NO
YES	NO

- (a) From my own competent resources as detailed in 4(a) hereafter.
- (b) From my own resources still to be appointed or trained until competency is achieved, as detailed in 4(b) hereafter:
- (c) From outside sources by appointment of competent specialist Subcontractors as detailed in 4(c) hereafter:

4 Details of resources I propose:  
*(Note: Competent resources shall include safety personnel such as a construction supervisor and construction safety officer as defined in Regulation 8, and competent persons as defined in Regulations 9, 10, 11, 12, 13, 14, 16, 17, 20, 21, 22, 23(1), 24, 25, 26, 27, 28 and 29, as applicable).*

- (a) Details of the competent and qualified key persons from my company's own resources, who will form part of the contract team:

NAMES OF COMPETENT PERSONS	POSITIONS TO BE FILLED BY COMPETENT PERSONS

(b) Details of training of persons from my company's own resources (or to be hired) who still have to be trained to achieve the necessary competency:

(i) By whom will training be provided?

--

(ii) When will training be undertaken?

--

(iii) Positions to be filled by persons to be trained or hired:


(c) Details of competent resources to be appointed as subcontractors if competent persons cannot be supplied from own company:

Name of proposed subcontractor:

--

Qualifications or details of competency of the subcontractor:


5 I, the undersigned, hereby undertake, if this tender is accepted, to provide, before commencement of the works under the contract, a suitable and sufficiently documented Health and Safety Plan in accordance with Regulation 7(1) of the Construction Regulations, which plan shall be subject to approval by the Client.

6 I, the undersigned, confirm that copies of this company's approved Health and Safety Plan, the Client's Safety Specifications as well as the OHSa 1993 Construction Regulations 2014 will be provided on site and will at all times be available for inspection by the Principal Contractor's personnel, the Client's personnel, the Employer's Agent, visitors, and officials and inspectors of the Department of Labour.

7 I, the undersigned, hereby confirm that adequate provision has been made in the 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 OHSa 1993 Construction Regulations 2014, and that I will be liable for any penalties that may be applied by the Client in terms of the said Regulations (Regulation 33) for failure on the Principal Contractor's part to comply with the provisions of the Act and the Regulations.

8 I, the undersigned, agree that failure to complete and execute this declaration to the satisfaction of the Client will mean that this company is unable to comply with the requirements of the OHSa 1993 Construction Regulations (2014) and accept that this tender will be prejudiced and may be rejected at the discretion of the Client.

*I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.*

**NAME (Block Capitals):**

**Date**

.....

**SIGNATURE:**

.....

\_\_\_\_\_

**T2.2.5 MBD 4: DECLARATION OF INTEREST**

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

- (a) a member of:
  - (i) any municipal council.
  - (ii) any provincial legislature.
  - (iii) the national Assembly or the national Council of provinces.
- (b) a member of the board of directors of any municipal enterprise.
- (c) an official of any municipality or municipal enterprise.
- (d) an employee of any national or provincial department, national or provincial public enterprise 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 enterprise.
- (f) an employee of Parliament or a provincial legislature.

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

- 1 No bid will be accepted from persons **in the service of the state**<sup>1</sup>.
- 2 Any person, having a kinship with persons **in the service of the state**, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to **persons in service of the state**, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority 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 Name of enterprise	Complete T2.1.2.1 Item 1.1
Name of enterprise’s representative	Complete T2.1.2.1 Item 1.2
3.2 ID Number of enterprise’s representative	Complete T2.1.2.1 Item 1.3
3.3 Position enterprise’s representative occupies in the enterprise	Complete T2.1.2.1 Item 1.4
3.4 Company Registration number	Complete T2.1.2.1 Item 3.1 or 3.2
3.5 Tax Reference number	Complete T2.1.2.1 Item 3.3
3.6 VAT registration number	Complete T2.1.2.1 Item 1.7

3.7 The names of all directors / trustees / shareholders / members / sole proprietors / partners in partnerships, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below. In the case of a joint venture, information in respect of each partnering enterprise must be completed and submitted.

		Circle Applicable	
3.8 Are you presently in the service of the state?	YES	NO	
If yes, furnish particulars: .....	.....		
.....	.....		
3.9 Have you been in the service of the state for the past twelve months?	YES	NO	
If yes, furnish particulars: .....	.....		
.....	.....		

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

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

3.12 Are any of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state? YES NO  
 If yes, furnish particulars: .....

3.13 Are any spouse, child or parent of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state? YES NO  
 If yes, furnish particulars: .....

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

4 The names of all directors / trustees / shareholders / members / sole proprietors / partners in partnerships, their individual identity numbers and state employee numbers must be indicated below. In the case of a joint venture, information in respect of each partnering enterprise must be completed and submitted

Full Name	Identity No.	State Employee No.	Personal income tax No.
Use additional pages if necessary			

*I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.*

**NAME (Block Capitals):** \_\_\_\_\_ **Date** \_\_\_\_\_  
**SIGNATURE:** \_\_\_\_\_

**T2.2.6 MBD 5: DECLARATION FOR PROCUREMENT ABOVE R10 MILLION  
(ALL APPLICABLE TAXES INCLUDED)**

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

Circle Applicable	
YES	NO

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

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

YES	NO
-----	----

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

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

2.2 If YES, provide particulars.

.....  
.....

YES	NO
-----	----

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

3.1 If YES, provide particulars.

.....  
.....

YES	NO
-----	----

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

4.1 If YES, provide particulars.

.....  
.....

**If required by 1.1 above, tenderers are to include, at the back of their tender submission document, a printout of their audited annual financial statements.**

*I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, and, if required, that the requested documentation has been included in the tender submission.*

**NAME (Block Capitals):** .....

**Date**

**SIGNATURE:** .....

## **T2.2.7 MBD 6.1: PREFERENCE POINTS CLAIM** **In terms of THE PREFERENTIAL PROCUREMENT REGULATIONS (2022)**

Reference is to be made to Clause F.3.11 of the Tender Data.

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

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

### **1.0 GENERAL CONDITIONS**

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

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

1.2 The applicable preference point system for this tender is the 80/20 preference point system.

1.3 Preference Points for this tender shall be awarded for:

- **Price and Specific Goals:** 80 (price) and 20 (specific goals), in terms of 1.2 above.
- The total Preference Points, for Price and Specific Goals, is 100.

1.4 Failure on the part of the tenderer to submit the required proof or documentation, in terms of the requirements in the Conditions of Tender for claiming specific goal preference points, will be interpreted that preference points for specific goals are not claimed.

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

### **2.0 DEFINITIONS**

2.1 **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation.

2.2 **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts.

2.3 **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes.

2.4 **“tender for income-generating contracts”** means a written offer in the form determined by Municipality in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the Municipality and a third party that produces revenue for the Municipality, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions.

2.5 **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

### 3.0 FORMULA FOR CALCULATION OF PREFERENCE PRICE POINTS

#### 3.1 PROCUREMENT OF GOODS AND SERVICES

**POINTS AWARDED FOR PRICE:** A maximum of 80 points is allocated for price on the following basis:

**80 / 20 Points System**

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

Where:

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

#### 4.0 POINTS AWARDED FOR SPECIFIC GOALS

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

**TABLE 1:** Specific Goals for the tender and maximum points for each goal are indicated per the table below.Tenderers are to indicate their points claim for each of the Specific Goals in the shaded blocks.

The Specific Goals to be allocated points in terms of this tender	Maximum Number of points ALLOCATED (80/20 system)	Number of points CLAIMED (80/20 system)
Ownership Goal: Race (black)	7.2	
Ownership Goal: Gender (female)	4.2	
Ownership Goal: Disabilities	0.6	
RDP Goal: The promotion of South African owned enterprises.	6.0	
RDP Goal: The promotion of enterprises located in a specific municipal area.	2.0	
<b>Total CLAIMED Points (20 Maximum)</b>		

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, certify that the points claimed, based on the specific goals as specified in the tender, qualifies the tendering entity for the preference(s) shown.

I acknowledge that:

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

**NAME (Block Capitals):** \_\_\_\_\_

**Date**

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

**T2.2.8 MBD 8: DECLARATION OF BIDDER’S PAST SUPPLY CHAIN MANAGEMENT PRACTICES**

- 1.0 This Municipal Bidding Document must form part of all bids invited.
- 2.0 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.
- 3.0 The bid of any bidder may be rejected if that bidder, or any of its directors have:
  - a) abused the 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) wilfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years.
  - 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).
- 4.0 In order to give effect to the above, the following questions must be completed and submitted with the bid.

4.1 Is the bidder or any of its directors listed on the National Treasury’s Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector?

(Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer / Authority of the institution that imposed the restriction after the audi alteram partem rule was applied.)

The Database of Restricted Suppliers now resides on the National Treasury’s website ([www.treasury.gov.za](http://www.treasury.gov.za)) and can be accessed by clicking on its link at the bottom of the home page.

Circle Applicable	
YES	NO

4.1.1 If YES, provide particulars.

.....

.....

4.2 Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?

The Register for Tender Defaulters can be accessed on the National Treasury’s website ([www.treasury.gov.za](http://www.treasury.gov.za)) by clicking on its link at the bottom of the home page.

YES	NO
-----	----

4.2.1 If YES, provide particulars.

.....

.....

4.3 Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?

YES	NO
-----	----

4.3.1 If YES, provide particulars.

.....

.....

4.4 Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?

YES	NO
-----	----

4.4.1 If YES, provide particulars.

.....

.....

4.5 Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?

YES	NO
-----	----

4.5.1 If YES, provide particulars.

.....

.....

*I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both 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.*

**NAME (Block Capitals):** .....

**Date**

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

\_\_\_\_\_

**T2.2.9 MBD 9: CERTIFICATE OF INDEPENDENT BID DETERMINATION****NOTES**

- <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.
- <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.

- 1.0 This Municipal Bidding Document (MBD) must form part of all **bids**<sup>1</sup> invited.
- 2.0 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.
- 3.0 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.
- 4.0 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**.
- 5.0 In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid.

**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:

-----  
(Name of Bidder)

that:

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.
  - (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.
  - (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.
  
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.

**NAME (Block Capitals):**

**Date**

**SIGNATURE:**

.....

\_\_\_\_\_

\_\_\_\_\_

**T2.2.10 JOINT VENTURES AGREEMENTS**

Joint Venture agreement and Power of Attorney Agreements to be attached here (if applicable).

**T2.2.11 RECORD OF ADDENDA TO TENDER DOCUMENTS**

I / We confirm that the following communications received from the Employer or his representative before the date of submission of this tender offer, amending the tender documents, have been taken into account in this tender offer.

<b>ADD.No</b>	<b>DATE</b>	<b>TITLE OR DETAILS</b>
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

*I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.*

***It is also confirmed that the requirements, as stated on the Addenda, have been complied with.***

**NAME (Block Capitals):**

**Date**

**SIGNATURE:**

**T2.2.12 ELIGIBILITY: DECLARATION OF MUNICIPAL FEES**

Reference is to be made to Clause F.2.1(f)(ii) of the Tender Data.

I, the undersigned, do hereby declare that the Municipal fees of:

.....  
(full name of Company / Close Corporation / partnership / sole proprietary/Joint Venture)

(hereinafter referred to as the TENDERER) are, as at the date hereunder, fully paid or an Acknowledgement of Debt has been concluded with the Municipality to pay the said charges in instalments.

The following account details relate to property of the said TENDERER:

<u>Account</u>	<u>Account Number: to be completed by tenderer</u>											
Consolidated Account												
Electricity												
Water												
Rates												
JSB Levies												
Other												

I acknowledge that should the aforesaid Municipal charges fall into arrears, the Municipality may take such remedial action as is required, including termination of any contract, and any payments due to the Contractor by the Municipality shall be first set off against such arrears.

- Where the tenderer’s place of business or business interests are outside the jurisdiction of eThekweni municipality, a copy of the accounts/ agreements from the relevant municipality are to be provided.
- Where the tenderer’s Municipal Accounts are part of their lease agreement, then a copy of the agreement, or an official letter to that effect, is to be provided.

**Tenderers are to include, at the back of their tender submission document, a printout of the above account’s and or agreements signed with the municipality.**

**Failure to include the required document will make the tender submission non-responsive.**

*I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, and that the requested documentation has been included in the tender submission.*

**NAME (Block Capitals):** .....

**Date**

**SIGNATURE:** .....

\_\_\_\_\_

**T2.2.13 ELIGIBILITY: REGISTRATION WITH COMPENSATION COMMISSIONER**

Reference is to be made to Clause F.2.1(f)(i) of the Tender Data.

The Occupational Injuries and Diseases Act (130 of 1993 as amended) (the Act) refers. A summary of the pertinent Clauses are listed below. The act is to be referenced for the full text of the clauses.

**Clause 80: Employer to register with commissioner and furnish him with particulars**

The Act requires that an Employer carrying out business in the Republic to register with the Compensation Commissioner. Any person who fails to comply with the provisions of the this clause is guilty of an offence.

**Clause 82: Employer to furnish returns of earnings**

The Act requires an Employer to furnish the commissioner with a return showing:

- The amount of earnings paid by him to his employees.
- Any further information as may be prescribed or as the commissioner may require.

Any Employer who fails to comply with the provisions of the this clause is guilty of an offence.

**Clause 86: Assessment to be paid by an employer to commissioner**

The Act states that an Employer will receive notices of assessment from the commissioner. The Employer must pay the commissioner the assessment amount on the notices.

**Clause 89: Mandators and contractors**

The Act requires a contractor (a person with a contract with a mandator) to register as an Employer in accordance with the provisions of the Act and pay the necessary assessments. Failing registration or payment of assessments, the mandator is required to pay the assessments in respect of the employees of the contractor. The mandator is allowed to recover the assessment amounts paid from the contractor.

The Department of labour issues contractors with a **Letter of Good Standing** if the contractor has complied with the requirement(s) of the Act and is in "good standing" with the Compensation Fund. Employers can check the validity of such Letters of Good Standing on the internet (<https://cfonline.labour.gov.za/VerifyLOGS>).

**Tenderers are to include, at the back of their tender submission document, a printout of their most recent Letter of Good Standing from the Department of Labour.**

**Failure to include the required document will make the tender submission non-responsive.**

*I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, and that the requested documentation has been included in the tender submission.*

**NAME (Block Capitals):**

**Date**

.....

**SIGNATURE:**

.....

\_\_\_\_\_

**T2.2.14 ELIGIBILITY: CSD REGISTRATION REPORT**

Reference is to be made to Clauses F.2.1(e) and F.2.23 of the Tender Data.

The Conditions of Tender, Clause F.2.1: Eligibility, requires a tenderer to be registered, at the time of tender closing, on the **National Treasury Central Supplier Database (CSD)** as a service provider.

CSD Registration Reports can be obtained from the National Treasury’s CSD website at <https://secure.csd.gov.za/Account/Login>.

The date of obtaining the printout is to be indicated on the printout.

The following is an example of the beginning of the printout obtained from the above website.

		<b>Report Date:</b> <input type="text"/>	
		<b>Report Ran By:</b> <input type="text"/>	
<b>CSD REGISTRATION REPORT</b>			
<b>SUPPLIER IDENTIFICATION</b>			
Supplier number	<input type="text"/>	Have Bank Account	<input type="text"/>
Is supplier active?	<input type="text"/>	Total annual turnover	<input type="text"/>
Supplier type	<input type="text"/>	Financial year start date	<input type="text"/>
Supplier sub-type	<input type="text"/>	Registration date	<input type="text"/>
Legal name	<input type="text"/>	Created by	<input type="text"/>
Trading name	<input type="text"/>	Created date	<input type="text"/>
Identification type	<input type="text"/>	Edit by	<input type="text"/>
Government breakdown	<input type="text"/>	Edit date	<input type="text"/>
Business status	<input type="text"/>	Restricted Supplier	<input type="text"/>
Country of origin	<input type="text"/>	Restriction Last Verification Date	<input type="text"/>
South African company/CC registration number	<input type="text"/>		

**Tenderers are to include, at the back of their tender submission document, a printout of their (full) CSD Registration Report.**

*I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, and that the requested documentation has been included in the tender submission.*

**NAME (Block Capitals):**

**Date**

**SIGNATURE:**

.....

.....

\_\_\_\_\_

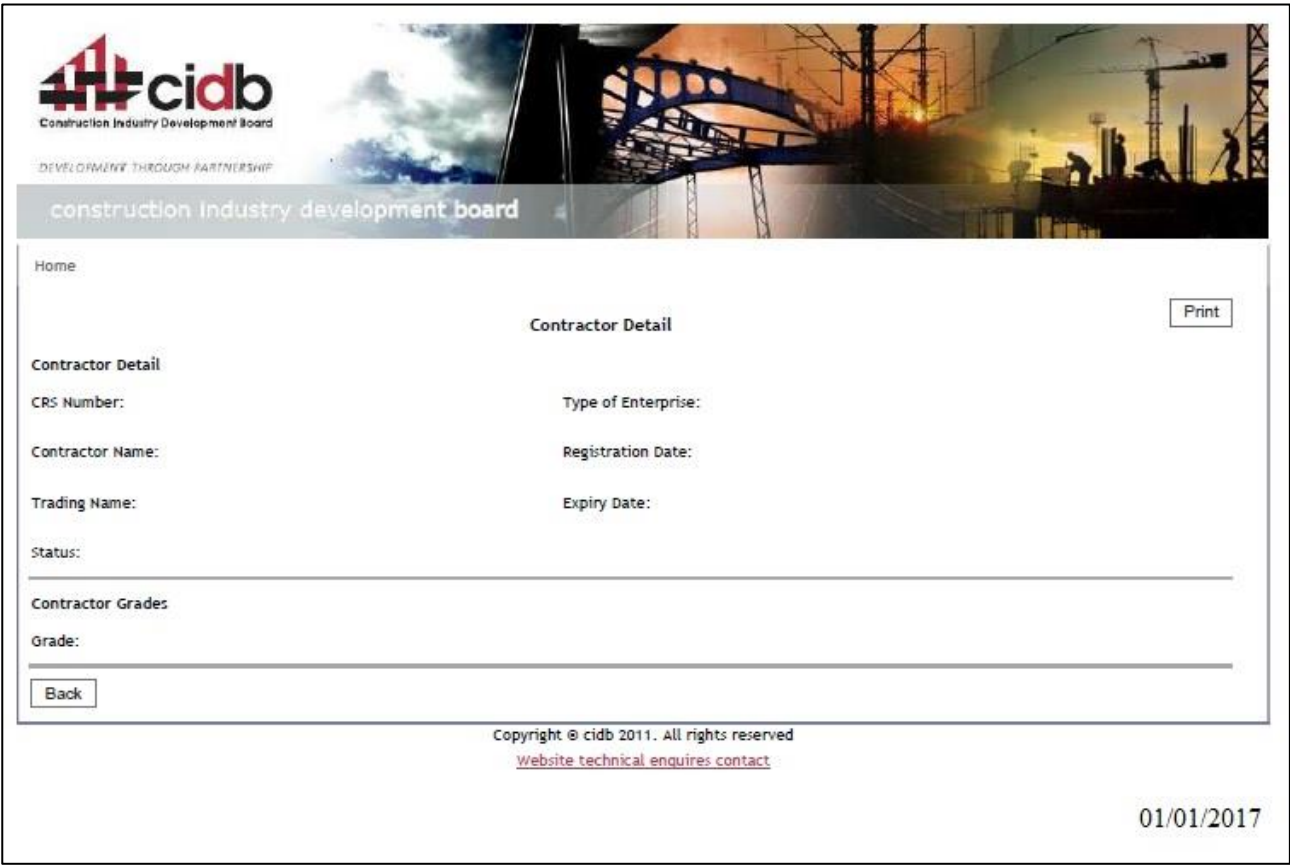
**T2.2.15 ELIGIBILITY: VERIFICATION OF CIDB REGISTRATION AND STATUS**

Reference is to be made to Clause F.2.1.1 and F.2.23 of the Tender Data.

The Conditions of Tender, **Clause F.2.1.1: Eligibility**, requires a tenderer to be registered, as “Active”, with the CIDB (at time of tender closing), in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations. The required class of construction work is specified in Clause F.2.1.1.

CIDB Registrations can be obtained from the CIDB website at <https://registers.cidb.org.za/PublicContractors/ContractorSearch>. The date of obtaining the printout is to be indicated on the printout.

The following is an example of the beginning of the printout obtained from the above website.



**Tenderers are to include, at the back of their tender submission document, a printout of their registration with the CIDB.**

*I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, and that the requested documentation has been included in the tender submission.*

**NAME (Block Capitals):** \_\_\_\_\_ **Date** \_\_\_\_\_

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

**T2.2.16 ELIGIBILITY: EXPERIENCE OF TENDERER**

Reference is to be made to Clause F.2.1.2 of the Tender Data.

**This form is to be copied and used for each submission of experience, as may be required.**

Where options are provided ( \* ), only one (1) selected option should be clearly marked with an " X ".

<b>Tenderer's CIDB Grade:</b>	1*	2*	3*	4*	5*	6*	7*	8*	9*	Experience as a:	Sub-Contractor*	Main Contractor*								
<b>Client / Employer:</b>	Entity Name:																			
	Contact Name:																			
	Contact Tel:										-	-								
	Contact Cell:										-	-								
	Contact email / other:																			
<b>Client OR Main Contractor's Details</b> Should the Employer's reasonable attempts to make contact, to verify the information provided, fail (for whatever reason) this experience submission will be considered invalid.	Entity Name:																			
	Contact Name:																			
	Contact Tel:										-	-								
	Contact Cell:										-	-								
	Contact email / other:																			
<b>Contract Details</b>	Contract Number:																			
	Contract Title:																			
	Has this Contract been completed?										Y*	N*								
Tendered Value (Contract Sum) OR Sub-Contract Value:	<b>R</b>										Commencement Date:		d	d	m	m	2	0	y	y
											Completion Date (if applicable):		d	d	m	m	2	0	y	y
										Final Contract Price OR Final Value of Sub-Contract:		<b>R</b>								

<b>Contract Scope-of-Work</b> (Description of Works components)	If available in hard copy, the Scope-of-Work can be attached. Only include the Scope-of-Work (contract description). <u>The Specification is not required.</u>

<b>In addition to the Scope-of-Work</b> (entered above or attached) the following documentation / information is required to be attached to the back of this form.					
Contractor Type and Contract Status	Proof of Sub-Contract Agreement	Letter of Award OR Form of Offer & Acceptance	Most recent Payment Certificate, OR most recent INVOICE, with Quantities summary	Final Payment Certificate, OR most recent INVOICE, with Quantities summary	Completion Certificate
Current Contract as Main Contractor	<del>/</del>	X	X		<del>/</del>
Completed Contract as Main Contractor	<del>/</del>	X	<del>/</del>	X	X
<b>Failure to submit this returnable form, and provide the above supporting documentation/ information, for each submission of experience, will invalidate that experience submission</b>					

*I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, and that the requested documentation has been included in the tender submission.*

**NAME (Block Capitals):** \_\_\_\_\_ **Date** \_\_\_\_\_

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

**PART C1: AGREEMENT AND CONTRACT DATA**

**C1.1: FORM OF OFFER AND ACCEPTANCE**

**C1.1.1: OFFER**

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

Contract No: **3V-29012**  
Contract Title: **The Construction of Illovo Dangerous Goods Heavy Vehicle Inspection Facility (Ward 109)**

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

By the representative of the Tenderer, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance, the Tenderer offers to perform all of the obligations and liabilities of the Contractor under the Contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the Conditions of Contract identified in the Contract Data.

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

R..... (In words .....  
.....)

This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the Tender Data, whereupon the Tenderer becomes the party named as the Contractor in the Conditions of Contract identified in the Contract Data.

**For the Tenderer:**

\* **Name of Tenderer** (*organisation*) : .....

\* **Signature** (*of person authorized to sign the tender*) : .....

\* **Name** (*of signatory in capitals*) : .....

**Capacity** (*of Signatory*) : .....

**Address** : .....  
: .....

**Telephone** : .....

**Witness:**

**Signature** : ..... **Date** : .....

**Name** (*in capitals*) : : .....

**Notes:**

\* **Indicates what information is mandatory.**  
**Failure to complete the mandatory information and sign this form will invalidate the tender.**

**C1.1: FORM OF OFFER AND ACCEPTANCE**

**C1.1.2: FORM OF ACCEPTANCE**

**This Form will be completed by the Employer**

By signing this part of the Form of Offer and Acceptance, the Employer identified below accepts the Tenderer's Offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the Conditions of Contract identified in the Contract Data. Acceptance of the Tenderer's Offer shall form an agreement between the Employer and the Tenderer upon the terms and conditions contained in this Agreement and in the Contract that is the subject of this Agreement.

The terms of the contract are contained in:

- Part C1 : Agreement and Contract Data, (which includes this Agreement)
- Part C2 : Pricing Data, including the Bill of Quantities
- Part C3 : Scope of Work
- Part C4 : Site Information

and the schedules, forms, drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C4 above.

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

The Tenderer shall within two weeks after receiving a completed copy of this Agreement, including the Schedule of Deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data at, or just after, the date this Agreement comes into effect. Failure to fulfill any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the Tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the Tenderer (now Contractor) within five 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** (*person authorized to sign the acceptance*) : .....

**Name** (*of signatory in capitals*) : .....

**Capacity** (*of Signatory*) : .....

**Name of Employer** (*organisation*) : .....

**Address** : .....

: .....

**Witness:**

**Signature** : ..... **Date** : .....

**Name**(*in capitals*) : : .....

**C1.1: FORM OF OFFER AND ACCEPTANCE**  
**C1.1.3: SCHEDULE OF DEVIATIONS**

**This form will be completed by THE EMPLOYER and ONLY THE SUCCESSFUL TENDERER**

- 1. **Subject** : .....
- Details** : .....
- : .....
- 2. **Subject** : .....
- Details** : .....
- : .....
- 3. **Subject** : .....
- Details** : .....
- : .....

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

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

**FOR THE TENDERER**

**FOR THE EMPLOYER**

.....	Signature	.....
.....	Name ( <i>in capitals</i> )	.....
.....	Capacity	.....
.....	Name and Address of	.....
.....	Organisation	.....
.....		.....
.....	Witness Signature	.....
.....	Witness Name	.....
.....	Date	.....

## C1.2: CONTRACT DATA

### C1.2.1 CONDITIONS OF CONTRACT

#### C1.2.1.1 GENERAL CONDITIONS OF CONTRACT

The Conditions of Contract are the General Conditions of Contract for Construction Works (2015 3<sup>rd</sup> Edition), (GCC 2015) published by the South African Institution of Civil Engineering. Copies of these conditions of contract may be obtained from the South African Institution of Civil Engineering (Tel: 011-805-5947, Fax: 011-805-5971, E-mail: [civilinfo@saice.org.za](mailto:civilinfo@saice.org.za)).

The Contract Data (including variations and additions) shall amplify, modify, or supersede, the GCC 2015 to the extent specified below, and shall take precedence and shall govern.

Each item of data given below is cross-referenced to the clause in the GCC 2015 to which it mainly applies.

### C1.2.2 CONTRACT DATA

#### C1.2.2.1 DATA TO BE PROVIDED BY THE EMPLOYER

- 1.1.1.13 The **Defects Liability Period**, from the date of the Certificate of Completion, is **1 Year**.
- 1.1.1.14 The **time for achieving Practical Completion**, from the Commencement Date is **12 Months**. The period as stated in 5.3.2, and the 7 days referred to in 5.3.3, are included in the above time for achieving Practical Completion. The special non-working days as stated in 5.8.1 are included in the above time for achieving Practical Completion.
- 1.1.1.15 The Employer is the eThekweni Municipality as represented by:  
Deputy Head: **Development Engineering**
- 1.2.1.2 The address of the Employer is:  
Physical: Engineering Unit, 166 K.E. Masinga Road, DURBAN, 4001  
Postal: Engineering Unit, P O Box 680, DURBAN, 4000  
Telephone: 031-311-7770  
E-Mail: [lorato.piki@durban.gov.za](mailto:lorato.piki@durban.gov.za)
- 1.1.1.16 The **name of the Employer's Agent** is Andrew Moyo
- 1.2.1.2 The address of the Employer' Agent is:  
Physical: Engineering Unit, 166 K.E. Masinga Road, DURBAN, 4001  
Postal: Engineering Unit, P O Box 680, DURBAN, 4000  
Telephone: 031-311-7849  
E-Mail: [andrew.moyo@durban.gov.za](mailto:andrew.moyo@durban.gov.za)
- 1.1.1.17 The **name of the Employer's Agent Representative** is Liso Gqobo
- 1.2.1.2 The address of the Employer's Agent Representative is:  
Physical: Engineering Unit, 166 K.E. Masinga Road, DURBAN, 4001  
Postal: Engineering Unit, P O Box 680, DURBAN, 4000  
Telephone: 031-322-9487  
E-Mail: [liso.gqobo@durban.gov.za](mailto:liso.gqobo@durban.gov.za)
- 1.1.1.26 The **Pricing Strategy** is by **Re-measurement Contract**.

- 3.2.3 The Employer's Agent shall obtain the **specific approval of the Employer** before executing any of his functions or duties according to the following Clauses of the General Conditions of Contract:
- 6.3: Council approval in order to authorise any expenditure in excess of the Tender Sum plus **15%** contingencies.
- 4.11.1 To carry out and complete the works, the Contractor shall employ a competent Site Agent and Foreman as part of the key staff. It is a requirement for the Contractor's Site Agent and Foreman to each have a minimum of 3 years relevant experience including experience on projects of a similar nature. The CV's of the Site Agent and the Foreman should be submitted to the Employer's Agent's Representative for acceptance by the Department (reference is made to Cl.5.3.1 of the Contract Data).
- Note:
- i) "similar nature" implies projects that were of a value of at least 70% of this tender's value, and had a comparable Scope of Work in terms of technical requirements and operations.
  - ii) "experience" implies experience on projects of a similar nature.
  - iii) "accredited degree / diploma" implies a minimum 3-year qualification within the built environment, from a registered University or Institute of Technology.
- 5.3.1 The **documentation required** before commencement with Works execution are:
- Health and Safety Plan (refer to Clause 4.3)
  - Initial Programme (refer to Clause 5.6)
  - Security (refer to Clause 6.2)
  - Insurance (refer to Clause 8.6)
  - CV(s) of Key Site Staff (refer to Clause 4.11.1)
  - CPG Implementation Plan.
- 5.3.2 The **time to submit the documentation** required before commencement with Works is **21 Days**.
- 5.3.3 Add the following paragraph:
- "If a construction work permit, in terms of Clause 3(1) of the Construction Regulations (2014), is applicable, the instruction to commence carrying out of the works may only be issued once the construction work permit has been obtained by the Employer's Agent. If a construction work permit is applicable, the contractor shall allow for a minimum period of 37 days, after the submission (or re-submission) of the documentation referred to in Clause 5.3.1., for the issuing of the construction work permit."
- 5.8.1 The **non-working days** are **Saturdays and Sundays**.
- (5.1.1) The **special non-working** days are:
- All statutory holidays as declared by National or Regional Government.
  - The year-end break:
    - Commencing on the first working day after 15 December.
    - Work resumes on the first working day after 5 January of the next year.
- 5.8.1 Delete the words "sunset and sunrise" and replace with "17:00 and 07:00".
- 5.12.2.2 **Abnormal Climatic Conditions (Rain Delays)** - The numbers of days per month, on which work is expected not to be possible as a result of rainfall, for which the Contractor shall make provision, is given in the table below. During the execution of the Works, the Employer's Agent's Representative will certify a day lost due to rainfall only if at least 75% of the work force and plant on site could not work during that specific working day.

Extension of time as a result of rainfall shall be calculated monthly being equal to the number days certified by the Employer's Agent's Representative as lost due to rainfall, less the number of days allowed for as in table below, which could result in a negative figure for certain months. The total extension of time for which the Contractor may apply, shall be the cumulative algebraic sum of the monthly extensions. Should the sum thus obtained be negative, the extension of time shall be taken as NIL.

<u>Month</u>	<u>Days Lost</u>	<u>Average Rainfall</u>	<u>Month</u>	<u>Days Lost</u>	<u>Average Rainfall</u>
January	4*	134	July	1	39
February	3	113	August	2	62
March	3	120	September	2	73
April	2	73	October	3	98
May	2	59	November	3	108
June	1	28	December	1*	102
TOTAL	27	1009mm	* = The number of working days lost allows for the annual statutory Construction holiday in December and January of each year.		

5.13.1 The **penalty for delay** in failing to complete the Works is **R 2800** (per Day).

5.14.1 The **requirements for achieving Practical Completion** will be determined by the Employer's Agent (in consultation with the Contractor) and recorded in the minutes of the first Site Meeting / Handover Meeting. (Refer to 1.1.1.24 for a generic definition.) The requirements are to be regularly reviewed with respect to any variations to the Contract.

5.16.3 The **latent defect liability** period is **10 Years**.

6.2.1 **Security (Performance Guarantee):** Delete the word "selected" and replace it with "stated".

The liability of the Performance Guarantee shall be as per the following table:

<b>Value of Contract (incl. VAT)</b>	<b>Performance Guarantee Required</b>
Less than or equal to R 1m	Nil
Greater than R 1m and less than or equal to R 10m	5% of the Contract Sum
Greater than R 10m	10% of the Contract Sum

6.5.1.2.3 The **percentage allowance** to cover overhead charges for daywork are as follows:

- **80%** of the gross remuneration of workmen and foremen actually engaged in the daywork;
- **20%** on the net cost of materials actually used in the completed work.

No allowance will be made for work done, or for materials and equipment for which daywork rates have been quoted at tender stage.

6.8.2 **Contract Price Adjustment Factor:** The value of the certificates issued shall be adjusted in accordance with the Contract Price Adjustment Schedule (GCC 2015 - page 86) with the following Indices / Descriptions / Coefficients:

- The proportion not subject to adjustment: **x = 0.10**.
- The base month will be the month prior to the month in which tenders close.
- The Index for, **Plant, Materials, and Fuel** shall be based on **2023 = 100**.
- The Index for **Labour** shall be based on **2021 = 100**.

	STATS SA Statistical Release	Table	Description	Coefficient
• "L" is the "Labour Index"	P0141	Table A	Geographic Indices; CPI per Province; Kwa-Zulu Natal	<b>a = 0.28</b>
• "P" is the "Contractor's Equipment Index"	P0151.1	Table 4	Plant and Equipment	<b>b = 0.28</b>
• "M" is the "Materials Index"	P0151.1	Table 6	Civil Engineering Material (excluding bitumen)	<b>c = 0.38</b>
• "F" is the "Fuel Index"	P0142.1	Table 1	Coke, petroleum, chemical, rubber and plastic products; Coal and petroleum products; Diesel	<b>d = 0.06</b>

6.8.3 Price adjustments for **variation in the cost of the special material(s)** listed below, will be allowed.

**Bitumen** - escalation will be calculated using the "Rise and Fall" method as determined by the Employer. The base price for bitumen on this contract shall be the ruling price of 50/70 grade bitumen based on the "Shell Wholesale List Selling Price for Penetration Grade Bitumen", seven (7) days prior to the closing date of tenders.

6.10.1.5 The **percentage advance** on materials not yet built into the Permanent Works is **80%**.

The **percentage advance** on Plant not yet supplied to Site: **Not Required**

6.10.3 **Retention Money:** Delete the word "selected".

The percentage retention on the amounts due to the Contractor is 10%.

The limit of "retention money" is 5% of the Contract Sum.

Should the Contract Price exceed the Contract Sum then the limit of "retention money" is 5% of the Contract Price.

Interest will not be paid on retention withheld by the Employer.

8.6.1.1.2 The **value of Plant and materials** supplied by the Employer to be included in the insurance sum: **Not Required**.

8.6.1.1.3 The **amount to cover professional fees** for repairing damage and loss to be included in the insurance sum: **Not Required**.

8.6.1.2 **SASRIA Coupon Policy** for Special Risks to be issued in joint names of Council and Contractor for the full value of the works (including VAT).

8.6.1.3 The limit of indemnity for **liability insurance: R 10,000,000.**

8.6.1.4 **Ground Support Insurance:**

- Minimum amount for any one occurrence, unlimited as to the number of occurrences, against any claim for damages or loss caused by vibration and / or removal of lateral support:  
**R 2,000,000.**
- Maximum first excess: **R 10,000.**

8.6.1.5 Furthermore, the insurance cover effected by the Contractor shall meet the following requirements:

**Third Party Insurance (Public Liability)**

- Minimum amount for any one occurrence, unlimited as to the number of occurrences, for the period of the contract, inclusive of the maintenance period: **R 5,000,000.**
- Consequential loss to be covered by policy: **Yes**
- Liability section of policy to be extended to cover blasting: **Nil.**
- Maximum excess per claim or series of claims arising out of any one occurrence: **R20,000.**

**Principal's own surrounding Property Insurance**

- Minimum amount for any one occurrence unlimited as to the number of occurrences against any claim for damage which may occur to the Council's own surrounding property: **R2,000,000.**
- Maximum first excess: **R 10,000.**

**Insurance of Works**

- Minimum amount for additional removal of debris (no damage): **R 10,000.**
- Minimum amount for temporary storage of materials off site, excluding Contractor's own premises: **Nil.**
- Minimum amount for transit of materials to site: **R 10,000.**

8.6.5 **Approval by Employer:** At the end of the sub-clause, add the following paragraph:

"Except where otherwise provided in the Special Conditions of Contract, the insurance cover effected by the Contractor in terms of this clause shall not carry a first loss amount greater than those set out below:

<b>Contract Price</b>	<b>First Loss</b>
Less than R 100,000	R 5,000
R 100,000 to R 500,000	R 10,000
R 500,000 to R 1,000,000	R 20,000
R 1,000,000 to R 2,000,000	R 30,000
R 2,000,000 to R 4,000,000	R 40,000
Greater than R 4,000,000	R 50,000

The insurance policy shall contain a specific provision whereby cancellation of the policy prior to the end of the period referred to in Cause 8.2.1 cannot take place without the prior written approval of the Employer."

10.7.1 Failing ad-hoc adjudication, the determination of disputes shall be by arbitration.

**C1.2.2.2 DATA TO BE PROVIDED BY CONTRACTOR**

1.1.1.9 The legal name of Contractor is:

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

1.2.1.2 The Physical address of the Contractor is:

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

The Postal address of the Contractor is:

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

The contact numbers of the Contractor are:

Telephone: .....

Fax: .....

The E-Mail address of the Contractor is:

.....

### C1.2.3 ADDITIONAL CONDITIONS OF CONTRACT

#### C1.2.3.1 COMMUNITY LIAISON OFFICER

The Ward Councillor(s) in whose ward(s) work is to be done will, collectively, identify a community liaison officer (CLO) for the project and make the person known to the Contractor within two days of being requested to do so. The Contractor will be required to enter a written contract with the CLO that specifies:

- The hours of work and the wage rate of the CLO (200% of the Civil Engineering Industry minimum wage).
- The duration of the appointment.
- The duties to be undertaken by the CLO which could include:
  - Assisting in all respects relating to the recruitment of local labour.
  - Acting as a source of information for the community and councillors on issues related to the contract.
  - Keeping the Contractor advised on community issues and issues pertaining to local security.
  - Assisting in setting up any meetings or negotiations with affected parties.
  - Keeping a written record of any labour or community issue that may arise.
  - Any other duties that may be required by the Contractor.

Responsibility for the identification of a pool of suitable labour shall rest with the CLO, although the Contractor shall have the right to choose from that pool. The Contractor shall have the right to determine the total number labourers required at any one time and this may vary during the contract.

The Contractor shall have the right to replace labour that is not performing adequately. Should such occasion arise, it must be done in conjunction with the CLO.

Payment: The CLO will be reimbursed from the PC Sum item in the Preliminary & General Section of the Bill of Quantities.

#### C1.2.3.2 EMPLOYMENT OF LOCAL LABOUR

It is a condition of contract that the contractor will be required to employ local labour as specified in eThekweni Council Policy "The use of CLOs and Local Labour". The contractor will be required to ensure that a minimum of 50% of the labour force is made up of local labour. For the purposes of this contract, "Local labour" will be deemed to be any **persons who reside within Ward(s) 109**. The contractor will be required to provide proof of authenticity of local labour. Signed confirmation by the appointed CLO will suffice for this.

No additional costs will be entertained due to this Particular Specification. The contractor will remain responsible for providing proper supervision of all labour and will be responsible for the quality of work produced.

#### C1.2.3.3 CONTRACTOR PARTICIPATION GOAL (CPG)

It is a condition of contract that the contractor must allow for a minimum of **15%** of the contract value (excluding PC Sum items and Fixed Cost allowances) to be subcontracted to contractors who are **>51% BLACK OWNED**. Proof of payment to the subcontractors will be required to verify that the minimum has been achieved.

The penalty for not achieving the specified CPG will be 0.5% of the contract value (excluding PC Sum items and Fixed Cost allowances) for every 1% of CPG not achieved.

**C1.2.3.4 FTE (Full Time Equivalent) EMPLOYMENT INFORMATION**

It is a condition of contract that the Contractor supplies the Employer’s Agent’s Representative with information in respect of the employment of all foremen, artisans and labour (skilled and unskilled) employed to work on this contract. The information required is:

- Initials (per ID doc)
- Last Name (per ID doc)
- ID Number
- Disability (y / n)
- Education Level

<b>Level 1</b> Unknown	<b>Level 2</b> No Schooling	<b>Level 3</b> Grade 1-3	<b>Level 4</b> Grade 4	<b>Level 5</b> Grade 5-6
<b>Level 6</b> Grade 7-8	<b>Level 7</b> Grade 9	<b>Level 8</b> Grade 10-11	<b>Level 9</b> Grade 12	<b>Level 10</b> Post Matric

- Category of Employment

<p><b>Category A:</b> Employed as Local Labour for this contract only  <b>Category B:</b> Temporarily employed by the Contractor  <b>Category C:</b> Permanently employed by the Contractor</p>
---

In addition, the following information is required in respect of each person listed above, on a monthly basis:

- Number of days worked during the month;
- Daily wage rate;
- Number of training days during the month.

The information is to be forwarded in a format acceptable to the Employer’s Agent’s Representative, but preferably in the form of an emailed EXCEL file (an original file, to be used as a template, will be issued to the Contractor). Contractors without computer facilities will be required to submit a hard copy of the information in a format as agreed to between the Contractor and the Employer’s Agent’s Representative.

In addition to the tax invoice, to be submitted by the Contractor with his monthly statement, mentioned in Clause 6.10.4 of GCC 2015, the Employer reserves the right to withhold payment until the monthly FTE information has been forwarded to the Employer’s Agent’s Representative. No additional payment for complying with the above will be made and the Contractor is to make allowance for complying through the time related P & G items (sum) under Part AA: Preliminaries, of the Bill of Quantities.

**C1.2.3.6 EXCEPTED RISKS (Clause 8.3)**

Pursuant to Clause 8.3 of the Conditions of Contract (GCC 2015), the Employer shall not be liable for the payment of standing time costs as a result of the occurrence of any of the “Excepted Risks” as defined under Clause 8.3.

However, the Employer shall reimburse the Contractor in respect of plant de-establishment and re-establishment costs as a result of “Excepted risks” when a written instruction to de-establish is issued to the Contractor.

The unit of measurement shall be the Sum per move unless otherwise stated.

## **C2.1: PRICING ASSUMPTIONS / INSTRUCTIONS**

### **C2.1.1 GENERAL**

The Bill of Quantities forms part of the Contract Documents and must be read and priced in conjunction with all the other documents comprising the Contract Documents (refer to F.1.2 of the Tender Data).

### **C2.1.2 PRICING INSTRUCTIONS AND DESCRIPTION OF ITEMS IN THE SCHEDULE**

Measurement and payment shall be in accordance with the relevant provisions of Clause 8 of each of the Standard Engineering Specifications referred to in the Scope of Work. The Preliminary and General items shall be measured in accordance with the provisions of C2.1.8.

The descriptions of the items in the Bill of Quantities are for identification purposes only and comply generally with those in the Standard Engineering Specification.

Clause 8 of each Standard Engineering Specification, read together with the relevant clauses of the Scope of the works, set out what ancillary or associated work and activities are included in the rates for the operations specified. Should any requirements of the measurement and payment clause of the applicable Standard Engineering Specification, or the Scope of the works, conflict with the Bill of Quantities, the requirements of the Standard Engineering Specification or Scope of the work, as applicable, shall prevail.

### **C2.1.3 QUANTITIES REFLECTED IN THE SCHEDULE**

The quantities given in the Bill of Quantities are estimates only, and subject to re-measuring during the execution of the work. The Contractor shall obtain the Employer's Agent's detailed instructions for all work before ordering any materials or executing work or making arrangements for it.

The Works as finally completed in accordance with the Contract shall be measured and paid for as specified in the Bill of Quantities and in accordance with the General and Special Conditions of Contract, the

Specifications and Project Specifications and the Drawings. Unless otherwise stated, items are measured net in accordance with the Drawings, and no allowance has been made for waste.

The validity of the contract will in no way be affected by differences between the quantities in the Bill of Quantities and the quantities finally certified for payment.

### **C2.1.5 MONTHLY PAYMENTS**

Unless otherwise specified in the Specifications and Project Specifications, progress payments in Interim Certificates, referred to in Clause 6.10.1 of the General Conditions of Contract, in respect of "sum" items in the Bill of Quantities shall be by means of interim progress instalments assessed by the Employer's Agent and based on the measure in which the work actually carried out relates to the extent of the work to be done by the Contractor.

### **C2.1.4 PROVISIONAL SUMS / PRIME COST SUMS**

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

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

### **C2.1.6 PRICING OF THE BILL OF QUANTITIES**

The prices and rates to be inserted by the Tenderer in

the Bill of Quantities shall be the full inclusive prices to be paid by the Employer for the work described under the several items, and shall include full compensation for all costs and expenses that may be required in and for the completion and maintenance during the defects liability period of all the work described and as shown on the drawings as well as all overheads, profits, incidentals and the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the Tender is based.

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

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

All rates and amounts quoted in the Bill of Quantities shall be in Rands and Cents and shall include all levies and taxes (other than VAT). VAT will be added in the Summary of the Bill of Quantities.

#### **C2.1.7 "RATE ONLY" ITEMS**

The Tenderer shall fill in rates for all items where the words "Rate Only" appear in the "Total" column. "Rate Only" items have been included where:

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

For "Rate Only" items no quantities are given in the "Quantity" column but the quoted rate shall apply in the event of work under this item being required. The

Tenderer shall however note that in terms of the Tender Data the Tenderer may be asked to reconsider any such rates which the Employer may regard as unbalanced.

#### **C2.1.8 PRELIMINARY AND GENERAL**

The Preliminary and General Section is provided to cover the Contractor's expenses incurred in complying with the requirements of the tender documents and consists of the following parts:

- Part AA: Preliminaries
- Part AB: General Specifications
- Part AH: Occupational Health and Safety

**Fixed Charge Items:** Each item should be priced separately and, subject to the Engineer certifying in terms of Clause 6.7 of the General Conditions of Contract that the work has been done, payment will be made as follows:

- (i) the total amount due when the certified value fixed charge items in this section is less than 5% of the net contract price;
- (ii) when the certified value of fixed charge items in this section is greater than 5% of the net contract price, payment will be limited to 5% of the net contract price. The remainder will be paid when the value of the work done under the contract, excluding the value of fixed charge items in this section, is greater than 50% of the net contract price, excluding the value of fixed charge items in this section.

**Time Related Items:** Any Time Related items not priced shall be deemed to be covered by the prices of other items in the section.

Payment of Time Related items in this section will be made throughout the contract period, the amount per month being the value of the item divided by the completion in months or, if specified in weeks, the equivalent number of months, in terms of Clause 5.5 of the General Conditions of Contract. The final monthly increment will only be paid upon the issue of a completion certificate.

**C2.2: BILL OF QUANTITIES**

The Bill of Quantities follows and comprises of 13 pages.

**PART C3: SCOPE OF WORK**

	<b><u>PAGE</u></b>	
<b>C3.1</b>	<b>PROJECT DESCRIPTION AND SCOPE OF CONTRACT</b>	<b>55</b>
<b>C3.2</b>	<b>PROJECT SPECIFICATIONS</b>	<b>56</b>
	PS.1 Programme, Method of Work, and Accommodation of Traffic	
	PS.2 Services	
	PS.3 Watermains	
	PS.4 Sewers	
	PS.5 Stormwater	
	PS.6 Electrical Plant	
	PS.7 Telkom S.A. Limited / Neotel Plant	
	PS.8 CCTV Plant	
	PS.9 Management of the Environment	
	PS.10 Occupational Health and Safety	
	PS.11 Site Security	
	PS.12 Preliminaries	
	PS.13 Site Facilities	
	PS.14 Survey	
	PS.15 Testing	
	PS.16 Quality Assurance (QA)	
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	PS.22 Temporary Sign Boards	
<b>C3.3</b>	<b>STANDARD SPECIFICATIONS</b>	<b>71</b>
	C3.3.1 Listing of the Standard Specifications	
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<b>C3.4</b>	<b>PARTICULAR SPECIFICATIONS</b>	<b>80</b>
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<b>C3.5</b>	<b>CONTRACT AND STANDARD DRAWINGS</b>	<b>81</b>
	C3.5.1 Contract Drawings / Details	
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<b>C3.6</b>	<b>ANNEXURES</b>	<b>82</b>

### **C3.1: PROJECT DESCRIPTION AND SCOPE OF CONTRACT**

#### **C3.1.1 Description of Works**

The broad extent of the works for this contract will include, but is not limited to, the following:

<b>Type of Works</b>	<b>Description of Works</b>
<b>i) Site Clearance</b>	General clearance including the following: <ul style="list-style-type: none"> <li>• Removal of existing asphalt paved areas</li> <li>• Removal of existing concrete paved areas</li> <li>• Demolition and removal of approximately 380m<sup>2</sup> existing building structures</li> <li>• Removal of existing brick paved structures</li> <li>• Removal of existing fence</li> <li>• Removal of existing concrete staircases</li> <li>• Removal of existing bush and trees.</li> </ul>
<b>ii) Testing Platform and Parking Area</b>	Approximate total area = 6700m <sup>2</sup> . A concrete surfaced testing platform will be constructed as per the following layerworks with the following thicknesses: <ul style="list-style-type: none"> <li>• 150mm Subgrade rip &amp; recompact</li> <li>• 250mm G7 Subgrade improvement</li> <li>• 150mm C1 Stabilised Subbase</li> <li>• 200mm Plain Jointed Concrete Pavement</li> </ul> This will include road painting.
<b>iii) Sidewalks and Paving</b>	Approximate total length = 400m 150mm G4 layer, Mini kerb and haunch, Clay brick pavers and precast concrete steps shall form part of the works.
<b>iv) Drainage</b>	Approximate total length = 50m Laying of 375mm stormwater pipe including catchpits and headwalls.
<b>v) Protection Works</b>	Approximate total length = 350m Installation of medium security Clear view fencing (2.4m high) to include vehicular gate and pedestrian gate to match the fence.

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

The address of the site is 2 Liberty Road, Illovo. Access the project area by travelling south on the N2 highway and taking Exit 133 toward R102/Kingsway/Kingsburgh/Umbumbulu. Turn onto R603 towards Umbumbulu and drive for approximately 1.8km. Turn left on Main Road and after 1.7km turn right onto the project area. Coordinates: S 30° 5'32.74" and E 30°49'35.15".

Refer to Locality plan attached on Part C4.1: Locality Sketch on page 81.

#### **C3.1.3 Nature of Ground and Subsoil Conditions**

According to a geotechnical investigation G10 cohesive materials found on site are of poor quality, weak and prone to heave; these are not suitable for any engineering use but may be used for general fill at the edges of the platform if required. Boxing out of the weak clay and shale, and importing of suitable subgrade, will be required for the paved driveways and parking areas. Based on the available information, the subgrade for this site will be classified as worse than G10.

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**C3.2: PROJECT SPECIFICATION****PREAMBLE**

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

**C3.2.1 GENERAL****PS.1 PROGRAMME, METHOD OF WORK, AND ACCOMMODATION OF TRAFFIC**

This Clause is to be read in conjunction with the provisions and obligations as contained in SANS 1921-1 and SANS 1921-2.

**PS.1.1 Programme in Terms of Clause 5.6 of the General Conditions of Contract**

It is essential that the construction programme, which shall conform in all respects to Clause 5.6 of the General Conditions of Contract, be furnished within the time stated in the Contract Data (refer to Clause 5.3.1/2).

The preliminary programme to be submitted before commencement with works shall be used as basis for this programme.

The Tenderer's attention is drawn to the fact that a number of factors will affect the programming of and method of carrying out the works. The more important of these are:

- (1) Time required for service relocations.
- (2) Time allowances to be made for the ordering of special items.
- (3) Notification required by service organisations.
- (4) Any special sequence in which work must be carried out. Must certain areas of work be finished before work commences on others?
- (5) If delays are anticipated with service relocations the contractor should be asked to allow time.
- (6) Is work required out of normal hours? (e.g. to accesses).
- (7) Vehicular access to private property is to be maintained.
- (8) Traffic restrictions.

Those known, existing services in the area of the works have been depicted on the contract drawings. It is evident, however, that the status of existing service records as far as can be ascertained might not reflect the actual situation in the field. As such, due allowance has been made in the Bill of Quantities for the proving of services where directed by the Engineer.

## **PS.1.2 Requirements for Accommodation of Traffic**

### **PS.1.2.1 General**

Accommodation of traffic, where applicable, shall comply with SANS 1921-2: 2004: Construction and Management Requirements for Works Contracts, Part 2: Accommodation of Traffic on Public Roads occupied by the Contractor. The Contractor shall obtain this specification from Standards South Africa if accommodation of traffic will be involved on any part of the construction works.

Clause 4.10.4 of SANS 1921-2: 2004 shall be replaced with the following:

“Road signs and markings shall comply with the requirements of the “SADC Road Traffic Signs Manual - Volume 2: Roadworks Signing”.

### **PS.1.2.2 Basic Requirements**

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

The Contractor shall ensure that all road signs, barricades, delineators, flagmen and speed controls are effective, and that courtesy is extended to the public at all times.

Failure to maintain road signs, warning signs or flicker lights, etc, in a good condition shall constitute ample reason for the Employer’s Agent to suspend the work until the road signs, etc, have been repaired to his satisfaction.

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

The Contractor shall construct and maintain all temporary drainage works necessary for temporary deviations. The Contractor shall ensure that the existing property accesses are maintained at all times. Where necessary the Contractor shall make allowance in the rates for completing the work required to the accesses out of normal hours.

### **PS.1.2.3 Traffic Safety Officer**

Where warranted by traffic conditions on or near the site, the Contractor shall nominate a suitable member of his staff as traffic safety officer to be responsible for the arrangement and maintenance of all the measures for the accommodation of traffic for the duration of the project. Duties of the traffic safety officer shall be in compliance with the Occupational Health and Safety Act 1993 and the Construction Regulations 2014.

### **PS.1.2.4 Payment**

The Contractor’s tendered rates for the relevant items in the Bill of Quantities shall include full compensation for all possible additional costs which may arise from this, and no claims for extra payment due to inconvenience as a result of the modus operandi will be considered.

**PS.1.2.5 Pedestrian Movement**

The Contractor shall make provision for accommodating all pedestrian movements in the area of the works. Allowance shall be made in the relevant rates for any barricades and signs required.

**PS.1.2.6 Temporary Reinstatement**

Provided always that if in the course or for the purpose of the execution of the works or any part thereof any road or way shall have been broken up, then notwithstanding anything herein contained:

- (a) if the permanent reinstatement of such road or way is to be carried out by the appropriate authority or by some person other than the contractor (or any subcontractor to him), the contractor shall at his own cost and independently of any requirement of or notice from the Engineer be responsible for the making good of any subsidence or shrinkage or other defect, imperfection or fault in the temporary reinstatement of such road or way, and for the execution of any necessary repair or amendment thereof from whatever cause the necessity arises, until the end of the period of maintenance in respect of works beneath such road or way until the authority or other person as aforesaid shall have taken possession of the site for the purpose of carrying out permanent reinstatement (whichever is the earlier), and shall indemnify and save harmless that Council against and from any damage or injury to the Council or to third parties arising out of or in consequence of any neglect or failure of the Contractor to comply with the foregoing obligations or any of them and against and from all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto.
- (b) where the authority or person as aforesaid shall take possession of the site as aforesaid in sections or lengths, the responsibility of the contractor under paragraph (a) of this sub-clause shall cease in regard to any such section or length at the time possession thereof is so taken, but shall during the continuance of the said period of maintenance continue in regard to any length of which possession has not been taken and the indemnity given by the contractor under the said paragraph shall be construed and have effect accordingly.

**PS.2 SERVICES**

This Clause is to be read in conjunction with the provisions and obligations as contained in SANS 1921-1 and SANS 1921-2.

**PS.2.1 Existing Services**

The Tenderer's attention is drawn to the numerous existing services in the area. Although every effort has been made to depict these services accurately the positions shown must be regarded as approximate.

**PS.2.2 Proving Underground Services**

This clause must be read in conjunction with Clause DB.5.1.2, the requirements of which shall be extended to cover all earthworks operations whether for trenching or bulk earthworks, in the vicinity of underground services.

It is stressed that all services in a particular area must be proven before commencing work in that area.

Insofar as bulk earthworks are concerned, where services are indicated on the drawings or where from site observations can reasonably be expected that such services are likely to exist where excavations are to take place, the Contractor shall without instructions from the Employer's Agent carefully excavate by hand to expose and prove their positions.

The cost of the proving trenches is provided under **Section 3; Part DB; Item 1.**

When a service is not located in its expected position the Contractor shall immediately report such circumstances to the Employer's Agent who will decide what further searching or other necessary action is to be carried out and shall instruct the Contractor accordingly. The cost of this additional searching shall be to the Council's cost and shall be paid for under DB.8.19 - Proving Existing Services.

Should any service be damaged by the Contractor in carrying out the works and should it be found that the procedure as laid down in this clause has not been followed then all costs in connection with the repair of the service will be to the Contractor's account.

When electrical cables are not in the positions shown on drawings of eThekweni Electricity and cannot be found after proving trenches have been put down, assistance may be obtained by calling an official of the Works Branch on Telephone No. 311-1111 during office hours, or by contacting Control on Telephone No. 305-7171 after hours.

It should be noted that 33,000 Volt and 132,000 Volt cables may only be exposed by the eThekweni Electricity's personnel. The cables are usually protected by concrete covering slabs, and therefore if the slabs are inadvertently exposed, excavation work must stop, and the eThekweni Electricity shall be contacted immediately on the above telephone numbers.

Proving of services shall be completed at least two weeks in advance of the actual programmed date for commencing work in the area. The position of these services located must be co-ordinated and levelled by the Contractor, and the information given in writing to the Employer's Agent's Representative.

The requirements of this clause do not relieve the Contractor of any obligations as detailed in the Conditions of Contract or under Clause 4.17 of SANS 1921-1.

### **PS.2.3 New Services and Relocation of Existing**

This clause shall be read in conjunction with Clause PS.1.

New services are either to be installed by the Contractor as part of the contract or by others during the contract period. In the latter case excavation and subsequent backfilling of the trench from the top of the bedding layer shall generally be carried out by the Contractor.

Relocation of services shall generally be carried out by the relevant services organisation. Generally their work shall include the excavating and bedding the service which will include backfilling to a depth of approximately 300 mm above the service. The remainder of the backfilling shall be carried out by the Contractor.

Generally work shall only commence on the installation of new services once the bulk earthworks have been completed and roughly trimmed to level along a substantial portion of the services route. In addition no sidewalk, verge, median or island shall be surfaced or topsoiled until all work on the services has been completed.

Services affected by the contract are described as follows:

- PS.3: Watermains;
- PS.4: Sewers;
- PS.5: Stormwater;
- PS.6: Electrical Cables / Lighting;
- PS.7: Telkom / Neotel;
- PS.8: CCTV;

Further to the above, tenderers are referred to the services drawing and are to note that several minor cables / pipes may be encountered during excavation works which may require to be relocated to some extent. It is anticipated that the two week period required under PS.2.2 will allow sufficient time for these relocations.

#### **PS.2.4 Accommodation of Services**

Further to Clauses PS.1 and PS.2 of this specification, tenderers are to note that allowance must be made under this item and / or the appropriate rates, for all costs incurred as a result of complying with these clauses. It shall also cover liaison with the services organisations and accommodation of their work gangs / contractors on site.

### **PS.3 WATERMAINS**

#### **PS.3.1 General**

No work to Watermains is envisaged, but the tenderers attention is drawn to the fact that Watermains are existing in the contract area.

#### **PS.3.2 Water Main Valve Access**

Due to the dangerous situation occurring when water main valves are covered over, the Contractor shall maintain access to all water main valves at all times. During asphalt layer work, after each pass by the paving machine, the valves shall be exposed and access maintained in a safe condition.

Whatever method the Contractor chooses to use for this work, the cost of raising the valves from existing level to ultimate level shall be paid only once, irrespective of the number of times the valve is uncovered. Spacer rings required for the height adjustment of valve covers shall be supplied by the Water and Sanitation Unit. Tolerances on valve cover levels shall be as specified in clause PH.6.5. Before final setting in position of valve covers the Contractor shall liaise with the Employer's Agent regarding the direction in which covers shall be placed.

**PS.3.3 Restriction on Compactive Equipment**

The Contractor is to note that existing watermains traverse the site of the works and special care is to be taken in close proximity to these mains and connections. The existing mains and connections shall be proved on site by the Contractor prior to any construction work commencing in the vicinity of the watermains.

Under no circumstances will heavy road-making equipment, other heavy plant or vibratory compaction equipment be permitted to operate within 800 mm vertically or horizontally of the existing mains or connections. The permissible compaction plant within this restricted area shall be the equivalent of a "Bomag 90" under static compaction, or similar approved plant. When the roadworks are far enough advanced to provide a minimum of 800 mm cover to the existing mains, the above restriction will fall away.

The Contractor is to take cognisance of the above requirements when entering rates in the Bill of Quantities and in the programming of the works. No claim for additional payment based on the inability to use plant as a result of the requirements of this clause will be accepted. The Contractor will be held liable for any costs should the watermain or electrical cables be damaged during construction of the road.

**PS.4 SEWERS**

No work to Sewers is envisaged, but the tenderers attention is drawn to the fact that Sewers are existing in the contract area.

**PS.4.1 Blockage of Foul Water Sewers**

The Contractor shall be responsible for ensuring that cementitious sludge, sand and rubble from the works do not enter the foul water reticulation system. The Contractor shall be liable for any costs incurred by the Council or others as a result of blockages in the reticulation system attributed to failure to comply with the above requirement.

**PS.5 STORMWATER**

Works relating the stormwater includes laying of 375mm stormwater pipe including catchpits and headwalls.

**PS.5.1 Blockage Stormwater Sewers**

The Contractor shall be responsible for ensuring that cementitious sludge, sand and rubble from the works do not enter the stormwater reticulation system. The Contractor shall be liable for any costs incurred by the Council or others as a result of blockages in the reticulation system attributed to failure to comply with the above requirement.

**PS.6 ELECTRICAL PLANT****PS.6.1 General**

Various types of electrical cables within the site of the works may be affected by the contract.

**PS.6.2 Street Lighting**

No work to Street Lighting is envisaged, but the tenderers attention is drawn to the fact that Street Lighting may be existing in the contract area.

**PS.6.3 MV / LV Cables**

No work to MV / LV Cables is envisaged, but the tenderers attention is drawn to the fact that MV / LV Cables may be existing in the contract area.

**PS.6.4 Relocation of Existing Services**

Should it be necessary to adjust the line, level and / or position of any service not catered for in the contract to enable the construction to proceed the Contractor shall on no account effect such adjustment himself but shall notify the Engineer who will arrange for the work to be carried out at no cost to the Contractor.

**PS.7 TELKOM S.A. LIMITED / NEOTEL PLANT**

No work to Telkom / Neotel Plant is envisaged, but the tenderers attention is drawn to the fact that Telkom / Neotel copper cables and fibre optic cables may be existing in the contract area.

**PS.8 CCTV PLANT**

No work to CCTV Plant is envisaged, but the tenderers attention is drawn to the fact that CCTV cables and fibre optic cables may be existing in the contract area.

**PS.9 MANAGEMENT OF THE ENVIRONMENT**

The Contractor shall pay special attention to the following:

**PS.9.1 Natural Vegetation**

The Contractor shall confine his operation to as small an area of the site as may be practical for the purpose of constructing the works.

Only those trees and shrubs directly affected by the works and such others as the Employer's Agent may direct in writing shall be cut down and stumped. The natural vegetation, grassing and other plants shall not be disturbed other than in areas where it is essential for the execution of the work or where directed by the Engineer.

**PS.9.2 Fires**

The Contractor shall comply with the statutory and local fire regulations. He shall also take all necessary precautions to prevent any fires. In the event of fire the Contractor shall take active steps to limit and extinguish the fire and shall accept full responsibility for damages and claims resulting from such fires which may have been caused by him or his employees.

**PS.9.3 Environmental Management Plan**

In addition to the above, all requirements according to the Environmental Management Plan as detailed in C3.4: Particular Specifications, will be adhered to.

**PS.10 OCCUPATIONAL HEALTH AND SAFETY****PS.10.1 General Statement**

When considering the safety on site the Contractor's attention is drawn to the following:

It is a requirement of this contract that the Contractor shall provide a safe and healthy working environment and to direct all his activities in such a manner that his employees and any other persons, who may be directly affected by his activities, are not exposed to hazards to their health and safety. To this end the Contractor shall assume full responsibility to conform to all the provisions of the Occupational Health and Safety Act No 85 and Amendment Act No 181 of 1993, and the OHS Act 1993 Construction Regulations 2014 issued on 7 February 2014 by the Department of Labour.

For the purpose of this contract the Contractor is required to confirm his status as mandatory and employer in his own right for the execution of the contract by entering into an agreement with the Employer in terms of Section 37(2) of the Occupational Health and Safety Act.

**PS.10.2 Health and Safety Declaration to be submitted at tender stage****PS.10.2.1 Employer's Health and Safety Specification**

The Employer's Health and Safety Specification is included in C3.4: Particular Specifications.

**PS.10.2.2 Tenderer's Health and Safety Declaration**

At tender stage only the Health and Safety Declaration (**Refer to Section T2.2.4**) should be completed in full.

In terms of Clause 5(1)(h) of the OHS Act 1993 Construction Regulations 2014 (referred to as "the Regulations" hereafter), a Principal Contractor may only be appointed to perform construction work if the Client is satisfied that the Principal 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 2014.

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

**PS.10.3 Cost of compliance with the OHS Act Construction Regulations**

The rates and prices tendered by the Contractor shall be deemed to include all costs for conforming to the requirements of the Act, the Construction Regulations and the Employer's Health and Safety Specification as applicable to this contract. Should the Contractor fail to comply with the provisions of the Construction Regulations, he will be liable for penalties as provided in the Construction Regulations and in the Employer's Health and Safety Specification.

Items that may qualify for remuneration will be specified in the Employer's Health and Safety Specification.

## **PS.11 SITE SECURITY**

The Contractor shall, for the duration of the contract, provide sufficient security and watchmen to adequately ensure the safety and protection of the works, the Contractor's staff, including local labour and subcontractors, and all site plant and construction equipment required for the works.

Site Security, in conjunction with the SAPS (where necessary), shall be responsible for removal of disruptive elements, that may interrupt the progress of the contract through acts such as, but not limited to, intimidation, threats of disruption, violent disruption, or criminal and illegal activity by the local community or independent organisations or entities that may result in slowing down or partial or total stoppage of the works.

Payment for this item shall be made under Section 1, Part AB of the Bill of Quantities.

## **PS.12 PRELIMINARIES**

### **PS.12.1 Discrepancy in Documents**

In the case of any accidental discrepancy or doubt as to the meaning or intention of any part of the documents(s) connected with this contract, reference must always be made to the Engineer for clarification. The Contractor will be held responsible for any errors that may arise from neglecting to exercise this precaution.

### **PS.12.2 Delivery of Materials**

The Contractor will be required to take all possible precautions, in the delivery of materials, to avoid damage to Municipal property and to prevent obstructions on any normal access route within the property.

### **PS.12.3 Staff Conduct**

The Contractor must ensure that his staff always conduct themselves in an orderly and unobtrusive manner so as not to infringe on or disturb the public and/or surrounding residents in any way.

### **PS.12.4 Fines**

The Contractor will be responsible for the costs of any fine(s) imposed due to the Contractor and/or his staff contravening any traffic and/or related regulation and/or bylaw whilst executing this contract.

### **PS.12.5 Meetings**

Regular site meetings will be held by the Employer (or his/her representatives or agent) to consider the progress in carrying out the works. The frequency of these meetings will be determined by the Employer's Agent. The Contractor should be adequately represented at each of these meetings.

## PS.12.6 Practical Completion

For the purpose of works covered by this document, Practical Completion will be the day when all the works covered in and by the SPECIFICATIONS excluding the MAINTENANCE of this contract and any site instructions, are certified complete (Written) by the Employer's Agent.

## PS.12.7 Site Handover

The Contractor becomes solely responsible for any site and/or works from the commencement date stated on the official site instruction until the actual official hand over of the site/works to the Development Engineering Department. This official hand over must be confirmed by a site instruction (Completion Certificate) stating that the site and its works is to the satisfaction of the Employer or Employer's Agent and has been completed to specification and the date of completion. It is from this date that the site is no longer the Contractor's responsibility.

## PS.13 SITE FACILITIES

### PS.13.1 Accommodation of Employees

No employees except for security guards will be allowed to sleep or be accommodated on the site in urban areas.

No housing is available for the Contractor's employees and the Contractor shall make his own arrangements to house his employees and to transport them to site.

No informal housing or squatting will be allowed.

The Contractor shall provide the necessary ablution facilities at his camp site and the site of the works for the use of his employees. Chemical toilets only will be allowed where temporary facilities have to be provided.

### PS.13.2 Power Supply, Water and other Services

The Contractor shall make his own arrangements concerning the supply of electrical power, water and all other services. No direct payment will be made for the provision of electricity, water and other services. The Tenderer shall note sum item under **Section 1; Part AB; Item 2** to cover the costs of services connections.

#### a) Water for Works

The Contractor shall allow in his Establishment rates for the securing of a suitable water supply, the payment of any connection fee and for any water charges for the duration of the contract.

#### b) Power Supply for Works

The power supply authority is eThekweni Electricity Service Unit. The Contractor will be responsible for arranging for whatever temporary supplies may be required and he will be required to bear all costs involved and to pay the ruling tariffs applicable to such supplies.

**PS.14 SURVEY**

The Contractor's attention is drawn to the requirements of the relevant clause of the General Conditions of Contract, and he shall also comply with all legal provisions in regard to surveying and setting out work.

**PS.14.1 Setting out of Works**

The Contractor shall submit to the Engineer the method of setting-out he proposes to employ and shall ensure that setting out is based on control points provided on the construction drawings or as instructed by the Engineer.

The contractor shall do the setting out to and beyond the obstructions. Such obstructions shall be reported to the Engineer as soon as possible. No additional payment shall be made for listing and reporting these obstructions and the re-establishment to set out areas that were affected by the obstructions.

The unit of measurement shall be (sum).

**PS.14.2 Accuracy**

Accurate control of line and level shall be provided by the Contractor at all stages of construction. In respect of the roads, control shall be at 5 m intervals or closer intervals as may be directed, by the Engineer, for horizontal and vertical curves. Wherever necessary, but particularly on completion of the fill and the base, the Contractor shall re-establish stake-line pegs at sufficiently close intervals to determine accurately the position of the edges of the base, surfacing and especially kerbing and other road elements permanently visible.

The setting out of work will not be measured and paid for directly, and compensation for the work involved in setting out will be deemed to be included in the rates tendered for all items in the Bill of Quantities for which setting out is required.

**PS.14.3 As- Built Data**

The Tenderer shall note sum item under **Section 1; Part AB; Item 15** covering the submission of As-Built data.

The contractor shall supply the Engineer with an electronic copy and hard copy of:

- The survey which must include all new works carried out – kerb line and channel, road edge, road markings, edge of sidewalks, trees, access points, services (existing, new and modified) with different hatching to indicate different types of surfacing. The contractor must also provide the Engineer with a materials as-built spreadsheet in the format approved by the Senior Manager: Pavement and Geotechnical Laboratory – City Engineers.
- A list of surveyed co-ordinates of cable duct markers and water main valve covers constructed or modified during the course of the contract.
- A list of surveyed invert and cover levels and co-ordinates of all catchpits and manholes constructed or modified during the course of the contract.
- As-Built records of materials testing results in the approved format.

The completion certificate shall not be issued unless the above information has been forwarded to and approved by the Engineer.

**PS.14.4 Survey Beacons** (*Read with SANS 1921 – 1*)

The Contractor shall take special precautions to protect all permanent survey beacons or pegs such as bench-marks, stand boundary pegs and trigonometrical beacons, regardless whether such beacons or pegs were placed before or during the execution of the contract. If any such beacons or pegs have been disturbed by the Contractor or his employees, the Contractor shall have them replaced by a registered land surveyor at his own cost.

**PS.15 TESTING**

The tenderer's attention is drawn to clause AB.6 which states that the Contractor is responsible for site control testing to confirm that all related work is in accordance with the specification.

The Contractor shall arrange for all tests required for process control to be done by a laboratory acceptable to and approved by the Engineer. The Contractor must submit the results of tests carried out on materials and workmanship when submitting work for acceptance by the Engineer.

The cost of this testing is covered under **Section 1; Part AB; Item 13** in the Bill of Quantities. If the results of the control testing are in order the Engineer may authorise the Contractor to proceed without further testing.

Acceptance testing is undertaken by the Development Engineering Department at the discretion of the Engineer after reviewing the results of the control testing. Should the acceptance testing indicate that the work is not to specification, the cost of any retests by the Engineer shall be to the Contractor's account. The cost has been determined at **R 1000** per set of tests and shall be deducted from any payments due to the Contractor.

**PS.16 QUALITY ASSURANCE (QA)** (*Read with SANS 1921 – 1: 2004 clause 4.4*)

The Contractor will be solely responsible for the production of work that complies with the relevant specifications and drawings to the satisfaction of the Engineer. To this end it will be the full responsibility of the Contractor to institute an appropriate Quality Assurance (QA) system on site.

The contractor shall implement a quality assurance system in accordance with ISO 9001 and appoint a quality manager who shall ensure that members of the contractor's staff comply with the requirements of the quality system. The quality system and the methods used to implement it shall be described in a quality plan produced by the contractor. The quality manager shall be resident on site full time. No construction activities shall take place on site before the engineer approves the quality plan.

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

The Engineer will audit the Contractor's QA system on a regular basis to verify that adequate independent checks and tests are being carried out, and to ensure that the Contractor's own control is sufficient to identify any possible quality problems which could cause a delay or failure.

The Contractor shall ensure that efficient supervisory staff, the required transport, instruments,

equipment, and tools are available to control the quality of his own workmanship in accordance with his QA-system. His attention is drawn to the fact that it is not the duty of the Engineer or the Engineer's representative to act as foreman or surveyor.

The contractor shall make allowance in the rate/s tendered under Preliminary and General to ensure the implementation and maintenance of an appropriate QA system, for the full duration of the contract.

#### **PS.17 WATER**

The Contractor himself shall make arrangements for procuring, transporting, storing, distributing and applying the water needed for construction of the Works and for all Site Offices and Workshops. He shall undertake all arrangements including pipelines and meters for connecting to local, municipal, water mains and the provision of pumps, storage tanks and water conveyance where necessary, payment for all fees and water charges and the satisfactory removal of all such arrangements and provisions on completion of the Works.

Water for use on site other than municipal, shall be subject to the required permit from the Department of Water Affairs (DWA). This shall include such extraction points as rivers, streams, and boreholes.

No direct payment will be made for providing water, the cost of which shall be included in the rates tendered for the various items of work for which water is needed. Only clean water, free from undesirable concentrations of deleterious salts and other materials, shall be used. Water supplied to all the offices, laboratories and houses shall be wholesome and potable to the satisfaction of the Medical Officers in the area. All water sources used shall be approved by the Engineer. In discharging and diverting water the Contractor shall avoid flooding or damaging other Works or services, causing erosion and polluting water courses.

#### **PS.18 MANAGEMENT AND DISPOSAL OF WATER**

*(Read with SANS 1921 - 1: 2004 clause 4.6)*

The Contractor shall pay special attention to the management and disposal of water and stormwater on the site. It is essential that all completed works or parts thereof are kept dry and properly drained. Claims for delay and for repair of damage caused to the works as a result of the Contractor's failure to properly manage rain and surface water, will not be considered.

#### **PS.19 WINDBLOWN MATERIAL**

The Contractor shall ensure that dust or other windblown material from the site does not affect adjoining properties and shall make allowance in the rate/s tendered under Preliminary and General for sweeping, sprinkling with water, application of chemical dust suppressants, providing dust fences and other measures necessary to fulfill this requirement.

#### **PS.20 ACCESS TO PROPERTIES**

The contractor is to maintain, at all time, access to properties. All temporary works required to maintain access must be factored into the rates of the schedule.

**PS.21 SITE REMOVAL OF ALL WASTE AND DEBRIS**

The Contractor is responsible for the clearance and removal of all rubbish and construction material waste arising from the works throughout the duration of the contract from site handover until completion. No payment will be authorized until all debris resulting from the works has been removed from the site.

The contractor's attention is drawn to the fact that there is waste (litter) that requires to be removed in the vicinity of the area of the works. This waste must be disposed of at an approved tip-site. The composition of the waste is unknown, and the contractor must envisage/expect different types of wastes.

Waste products could include:

Solid Wastes, Gaseous Wastes, Animal by-products, Biodegradable/Organic waste, Biomedical waste, Bulky waste, Business waste, Chemical waste, Clinical waste, Commercial waste, Construction and demolition waste, Controlled waste, Consumable waste, Composite waste, Demolition waste, Domestic waste, Electronic waste, Food waste, Green waste, Grey water, Hazardous waste, Household waste, Human waste, Industrial waste, Inert waste, Kitchen waste, Litter, Liquid waste, Medical waste, Metabolic waste, Mixed waste, Municipal solid waste, Packaging waste, Post-consumer waste, Radioactive waste, Recyclable waste, Residual waste, Retail hazardous waste, Sewage, Toxic waste, Uncontrolled waste, Wastewater, etc.

All vegetation, rubble, excavated material and spoil from the clearing and excavations associated with the Works shall be transported and disposed of at an approved tip site. The Contractor's attention is drawn to the fact that charges are levied at the Municipal Refuse Tip for the dumping of certain types of waste materials. The Contractor shall therefore make due allowance in the relevant rates for removal to tip to include for such charges.

The unit of measurement shall be the square metre (m<sup>2</sup>).

**PS.21.1 Approved Tip**

The approved tip is the Municipal refuse dump/Landfill at Lovu Landfill Site. The Contractor will be permitted to dump material at this site, free of charge, provided the following requirements are fulfilled:-

- The Contractor shall obtain a completed authorisation form from the Development Engineering Department for this purpose, beforehand.
- Each truck from the contract site shall present a completed authorisation form upon arrival at the tip site.
- The Contractor shall obtain a new authorisation form for each day he intends to dispose of material at the tip site.

Should the Contractor fail to comply with these requirements, charges to dump material may be levied, for which the Contractor shall not be reimbursed.

The Contractor may only use other land as a tip site with the PRIOR WRITTEN PERMISSION of both the land owner and the Engineer. The Contractor may be required to provide proof as to where material is being dumped. Weigh bridge slips will be the only acceptable proof in the case of the Municipal tip site.

**PS.21.2 Payment**

No separate payment shall be made for this item, the contractor must therefore make allowance in the relevant rates to cover this item. The contractor must also allow for hauling the material to the Lovu Landfill which is +/- 10km from the site or any other approved landfill site. Payment will only be made once the contractor provides the original weigh bill from the landfill site.

**PS.22 TEMPORARY SIGN BOARDS****PS.22.1 Materials**

All temporary signs shall be manufactured from Chromadek steel plate as detailed under Clause TA.3.3 and retroreflective material as follows:

Black	semi-matt finish
Yellow background (With no red material)	Class I

Yellow background (If red material used)	Class II
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Red	Class I
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With the exception of signs R1, R2, R3, R1.5A and R1.5B, the temporary road signs shall be in accordance with the colour code for temporary road signs.

**PS.22.2 Erection**

The temporary road signs shall be erected in a manner such that the face of the sign is not defaced, obscured or deflected in any way.

Where necessary, for high visibility, the temporary signs shall be erected on 100 mm creosoted gum posts such that the underside of the sign is not less than 2.2 m above ground level. The post/s shall be supported in a drum/s which shall be ballasted and braced or stayed so that the sign cannot be blown over. In all other instances, the temporary signs shall be adequately secured to a drum.

**PS.22.3 Drums**

All drums shall be white painted, 200 litre drums or similar approved by the Engineer. Drums shall not be used for delineation purposes.

**C3.3: STANDARD SPECIFICATIONS**

**C3.3.1** The Specifications on which this contract is based are the eThekiwini Municipality's (City of Durban) Standard Engineering Specifications (hereafter referred to as the Standard Engineering Specifications). This document is obtainable separately, and Tenderers shall obtain their own copies of the applicable Sections.

<b>Part</b>	<b>Description</b>	<b>Date of Issue</b>	
AB	General Specifications	July	1992
B	Site Clearance	March	1990
C	Concrete Work	February	1987
DA	Earthworks: Bulk	January	1985
DB	Earthworks for Pipe Trenches	July	1992
DD	Earthworks for Structures	January	1985
EB	Graded Crushed Stone	December	1988
EC	Cement Treated Graded Crushed Stone	December	1988
EF	Kerbs and Haunches	July	1992
EG	Sidewalks, Footpaths and Median Areas	July	1992
EL	Dumprock Subgrade Improvement	July	1992
F	Protection Works	July	1992
PG	Non Pressure Pipelines and Pc Culverts	July	1992
PH	Manholes and Appurtenant Drainage Works	July	1992
TA	Road Signs	October	1989
TB	Road Markings	October	1989

**C3.3.2 AMENDMENTS TO THE STANDARD SPECIFICATIONS**

**INTRODUCTION**

In certain clauses the standard, standardized and particular specifications allow a choice to be specified in the project specifications between alternative materials or methods of construction and for additional requirements to be specified to suit a particular contract. Details of such alternative or additional requirements applicable to this contract are contained in this part of the project specifications. It also contains additional specifications required for this particular contract.

The number of each clause and each payment item in this part of the project specifications consists of the prefix PS followed by a number corresponding to the number of the relevant clause or payment item in the standard specifications. The number of a new clause or payment item, which does not form part of a clause or a payment item in the standard specifications and which is included here, is also prefixed by PS, but followed by a new number which follows on the last clause or item number used in the relevant section of the standard specifications.

- PS AB General Specifications
- PS B Site Clearance
- PS C Concrete
- PS EC Cement Treated Graded Crushed Stone Base
- PS EG Sidewalks, Footpaths and Median Areas
- PS F Protection Works
- PS PG Non-Pressure Pipelines and Pc Culverts
- PS PH Manholes and Appurtenant Drainage Works

**PS.AB GENERAL SPECIFICATIONS****PS.AB.2 Temporary Offices for Engineer and Staff**

Further to clause AB.2, one (1) Type 1 prefabricated office for the exclusive use of the Engineer and / or his staff.

Further to the above, two (2) Car ports shall be so constructed, as to protect vehicles parked in them at all times against the direct rays of the sun and from hail, for the exclusive use of the Engineer and / or his staff. The car ports shall be at least 20 m<sup>2</sup> in area and the floors shall consist of a layer of broken stone to alleviate dusty and muddy conditions. The car ports shall be constructed, within the Contractor's campsite area adjacent to the Engineer's Offices as approved and instructed by the Engineer.

The Contractor will be required to provide maintenance / cleaning to the Engineer's offices and car ports. Pay items in Part AB in the Bill of Quantities have been provided to cover the provision and maintenance of the above. The area around the campsite must be grassed and maintained for the duration of the contract.

**PS.AB.4 Contractor's Camp Site and Depot**

In addition to the requirements of Clause AB.4 the following conditions shall also apply:

- a) None of the existing roads shall be damaged in any way.
- b) No waterborne sewerage facilities or potable water connection are available on the site. The Contractor shall make his own arrangements in this regard.
- c) No electrical facilities exist on site.
- d) It shall be the responsibility of the Contractor to make good any damage caused to the camp site area or any improvements on it, including services, and for reinstating it to its former condition when vacated. The standard of reinstatement must be to the satisfaction of the Engineer and the Manager: Electricity South-West Depot. Particular attention should be directed to these requirements and written clearances from the relevant Departments or other owners will be required.

**PS B SITE CLEARANCE****PS.B.8.4 Removal and Grubbing of Large Tress and Stumps**

Notwithstanding Clause B.8.4 the rate shall include removal of large roots and poisoning where required and the disposal of all material to an approved tip.

**PS.B.8.12 Demolish and Removal of Soakpit**

Notwithstanding clause B.8.12, the unit of measurement shall be cubic meters (m<sup>3</sup>).

**PS.B.8.23 Removal of Existing Structures**

The unit of measurement shall be number (No.), and the rate shall include for the labour and plant necessary for the careful removal and demolition of the brick structure on the lower platform and prefab building on the upper platform that have been partly demolished, including blasting if necessary, down to the foundations and the disposal of material to an approved tip.

**PS.B.8.24 Removal of Effluent in Soakpit**

The unit of measurement shall be cubic meters ( $m^3$ ) and the rate shall include for the labour and plant necessary for the careful removal of Effluent in soakpits by pumping using a honey sucker and the disposal of material to a Wastewater Treatment Plant.

**PS C CONCRETE****PS.C.8.1 Plain Jointed Concrete Pavement (Plain JCP)**

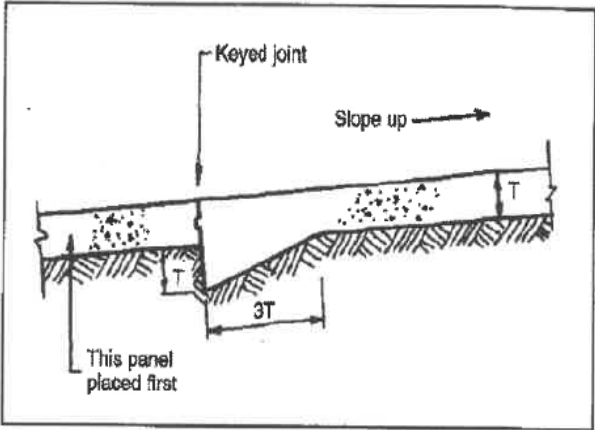
Notwithstanding Clause C.8.1.

A Plain JCP shall be constructed as per the details below:

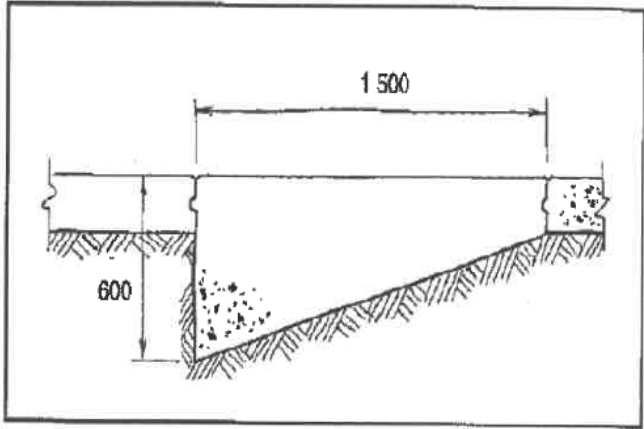
- Concrete flexural strength should be 3.8 MPa. This equates to a concrete compressive strength of approximately 40 MPa.
- Concrete shall be cast in alternate panels with construction joints being formed both longitudinally and transversely.
- A maximum of 4.5m is recommended for transverse contraction joints spacing.
- Panels shall be kept as square as possible with the length: breadth ratio being kept below 1.2.
- Non-rectangular panels or panels encompassing manholes shall be reinforced with Mesh Ref. 395. Manholes, etc. shall be separated from the concrete panel with an isolation joint through the full depth of the panel.
- On slabs where edge loading is unavoidable (e.g. slabs abutting onto an adjacent asphalt surfaced road), the concrete thickness shall be thickened by 1.25x the slab thickness tapered over a distance of 10x the slab thickness (or to the end of the panel).
- The surface of the wet concrete shall be finished with a burlap drag on shallow gradients. On steeper gradients, the surface shall be roughened with a light pass of a stiff bristled broom applied transversely across the width of the road to create striations of about 1.5mm to 3.0mm in depth.
- On steep gradients, panel and anchor blocks shall be provided as follows:

Grade (%)	Panel Anchor* Location	Anchor Block Location
3 - 6	Every 3rd panel	At bottom end of grade
6 - 10	Every 2nd panel	At bottom end of grade
> 10	Every panel	At bottom end of grade and at 30m intervals thereafter uphill

\* Panel length is the full distance between transverse joints.



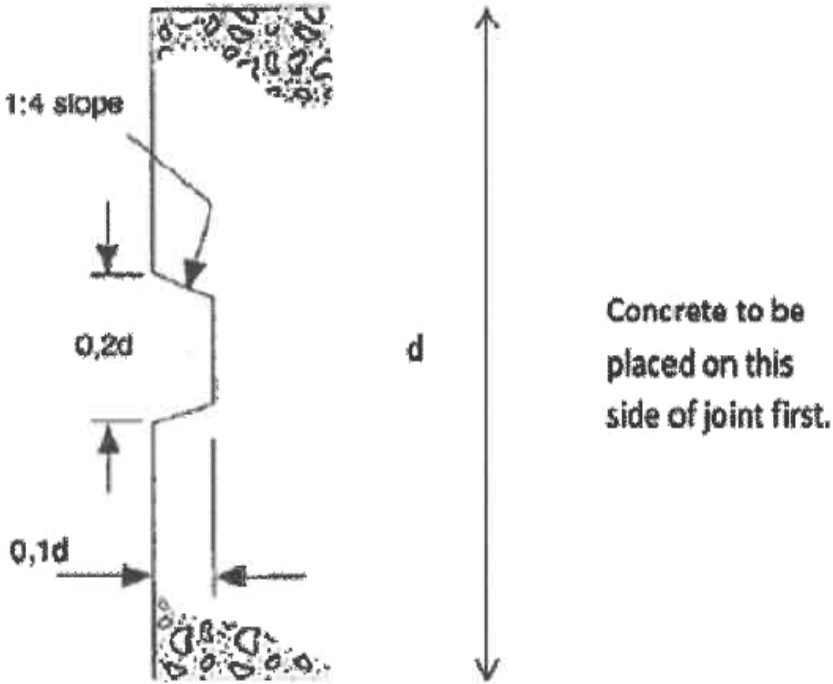
Panel Anchor



Anchor Block

**PS.C.8.4 Transverse Joints**

Transverse joints to be keyed (but not dowelled) as detailed below:



A bitumen-based crack sealant shall be used to seal joints. The unit of measurement shall be linear metre (m).

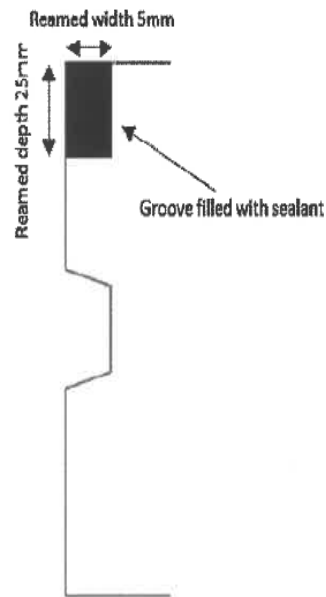
**PS.C.8.5 Longitudinal Joints**

Longitudinal joints to be keyed and tied. Ties shall be Y10 (deformed bars), 500mm in length @ 750mm intervals. Key dimensions should be as detailed above. Tie bars can be excluded if edge restraints in the form of standalone kerbing is cast along either edge of the concrete road. A bitumen-based crack sealant shall be used to seal joints.

The unit of measurement shall be linear metre (m).

**PS.C.8.6 Saw Cut to Joints**

The faces of the joint shall be reamed by saw cutting to form a groove that is 5mm wide and 25mm deep. The groove shall first be treated with an emulsion to enable adhesion of the crack sealant to concrete, prior to application of the sealant. The detail is shown below:



The unit of measurement shall be linear metre (m).

**PS EC CEMENT TREATED GRADED CRUSHED STONE BASE****PS.EC.8.1 Sub-base**

Notwithstanding Clause EC.8.1.

C1 Stabilised gravel to be supplied and laid with strength (UCS) > 6 MPa (@100% MDD & 7-day Cure) and compacted to 95% MDD. Details of the source of the supply of the sub-base material are required by the Employer's Agent before construction commences. A Certificate of Acceptance for this layer will be issued by the Employer's Agent when levels and densities are correct.

**PS EG      SIDEWALKS, FOOTPATHS AND MEDIAN AREAS****PS.EG.8.7    Precast Concrete Steps**

Where indicated on the construction drawings, precast concrete steps (1.5m wide x 0.335m tread x 0.175m high) shall be constructed as part of the footpaths in the parking area.

The unit of measurement shall be number (No.), and the rate shall include all plant, labour, materials for the construction of the steps.

**PS.EG.8.8    Precast Handrail Posts for Footpaths**

Precast concrete handrail posts (30MPa/13mm) shall be constructed as indicated on Standard drawing No. 38581. The height of the post shall be 1.3m and it shall be reinforced with galvanized R10 bars.

The unit of measurement shall be number (No.), and the rate shall include for the supply and installation of the posts including all plant, equipment, labour etc.

**PS.EG.8.9    Handrails**

Handrails shall be constructed where indicated on the footpath longitudinal sections and shall be fully compliant with the Standard drawing No. 38581.

The unit of measurement shall be metre (m) and the rate shall include for the supply and the installation of the 50mmø galvanised iron handrails including all plant, equipment and labour.

**PS F        PROTECTION WORKS****PS.F.8.8    Medium Security Clear View Fence**

The unit of measurement shall be linear metre (m) and the rate shall include all materials, storage, labour, and plant necessary for the supply and installation of medium security Clear View Fence.

Work to be undertaken by a fencing subcontractor Grade 2 and above, registered with the CIDB in the SQ grading designation.

Clear View fence as per manufactures specification or similar approved:

**a) Panel**

Clear View mesh panels 3305mm wide x 2400mm high Galvanized.

Panel formation: panel reinforced with 4x deep 'V' formation horizontal recessed bands (rigidity), 2 x 70° flanges along sides (internal fixtures - anti vandal, allowing for Flush post and panel finish, line wire secure Connection, locking recess mechanism) and 2 x 30° flanges along top and toe. (Arrow - straight edges, integrated angle). Coating: galvanized, then poly coated.

**b) Post**

Taper locking post, sealed with steel cap.  
 Coating: galvanized, then structural marine  
 Grade coated.

**c) Clamps**

Single bolt comb clamps.  
 Double bolt comb clamps.  
 Coating: galvanized, then poly coated.

**d) Baseplate**

Square baseplate to anchor post to wall.

**e) Additions**

A 100mm high toughened steel Shark Tooth spike shall be affixed to panel edge, internally at 150mm intervals using Anti-vandal bolts. Spike finish shall be Hot Dipped Galvanized.

**PS.F.8.9 Gates**

The unit of measurement for the Gates shall be number (No.) and the rate shall include all materials, storage, labour and plant necessary for the supply and installation of Clear View Gates.

**PS.F.8.9.1 Pedestrian Swing Gate**

- (a) 2.4m high x 1.2m wide gate including spikes, 3mm dia. Galvanized wire with aperture size (centres) 76.2mm x 25mm.
- (b) All connections and joints shall be welded to form rigid frames or assembled with corner fittings.
- (c) Hinges shall not twist or turn under the action of the gate, shall be so arranged that a closed gate cannot be lifted off the hinges to obtain entry.

**PS.F.8.9.2 Sliding Gate**

- (a) 2.4m high x 3m wide gate including spikes, 3mm dia. Galvanized wire with aperture size (centres) 76.2mm x 25mm.
- (b) Gate frame fabrication and miscellaneous items shall be similar to Swing Gates.
- (c) All fittings, brackets and rear wheel tracks shall be standard manufactured products for the intended application.
- (d) Supply industrial gate motor and all fittings with the following or similar approved specifications:
  - (i) Suitable for gates weighing up to 1000kg with 750 or more daily operations
  - (ii) 24V battery backup
  - (iii) Manual override – Lockable with key release
  - (iv) Intelligent theft and break-in protection with an integral vibration sensor and patented theft-deterrent cage.

**PS.F.8.10 Geofabrics**

The geofabric shall comply with clause PG.3.8.

The unit of measurement shall be the square metre (m<sup>2</sup>). The rate shall include for the supply of the material, laying, joining, cutting and waste.

**PS PG NON-PRESSURE PIPELINES AND PC CULVERTS****PS.PG.8.14 19mm STONE**

The unit of measurement shall be the cubic metre (m<sup>3</sup>) and the Contractor shall allow in his price for the supply, handling and levelling, etc., of the stone.

**PS PH MANHOLES AND APPURTENANT DRAINAGE WORKS****PS.PH.9 Outlet Headwall**

Drawing number 38576 shows details of outlet headwalls. The unit of measurement for these headwalls shall be number (No.) and shall include for all labour, plant and materials required for the construction of the headwall inclusive of the base and cut-off walls.

The construction of brickwork shall be as specified in clause F.5.6.3. Mortar shall conform to mix Class A as defined in the latest edition of the Standard Building Regulations.

### **C3.4: PARTICULAR SPECIFICATIONS**

In addition to the Standardized and Project Specifications the following Particular Specifications / Policies shall apply to this contract:

C3.4.1 Part AH - OSHA 1993 Safety Specification  
(26 Pages)

C3.4.2 Standard Environmental Management Plan for Civil Engineering Construction Works  
(24 Pages)

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**C3.5: CONTRACT AND STANDARD DRAWINGS****C3.5.1 CONTRACT DRAWINGS / DETAILS**

Drawing No.: 49297: Layout Plan and Stormwater Long section


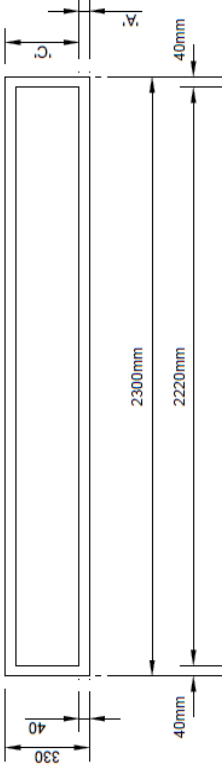
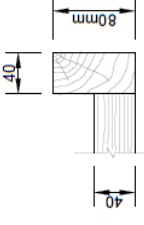
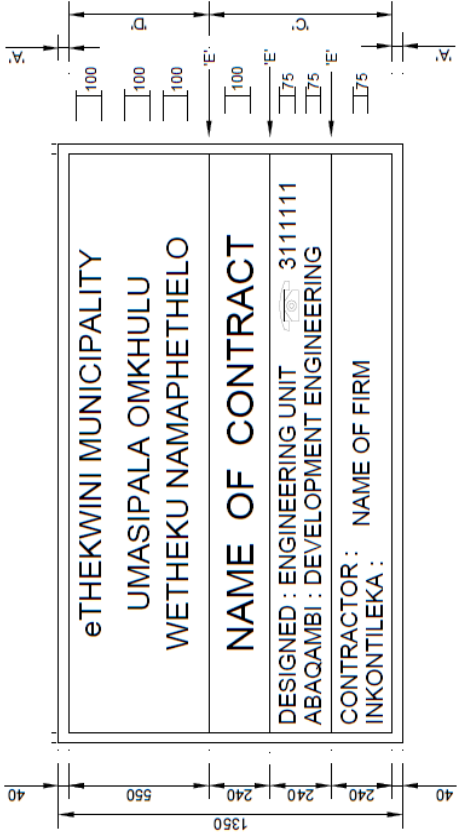
**C3.5.2 STANDARD DRAWINGS**

The Standard Drawings to which these Standard Engineering Specifications refer are listed below.

<b>Dwg No</b>	<b>Description</b>	<b>Date of Issue</b>	
38572	Stormwater Inlet Details	February	1990
38575	Sub-Soil Drain, Pipe Bedding and Pipe Protection Details	February	1990
38576	Headwall Details	February	1990
38577	Kerbing Details	February	1990
38579	Vehicular and Pedestrian Scoops	February	1990
38581	Retaining Wall, PC Steps, Staircase, Cable Ducts and Headwalls	February	1990
38583	Wire Mesh Fence and Gate Details	February	1990

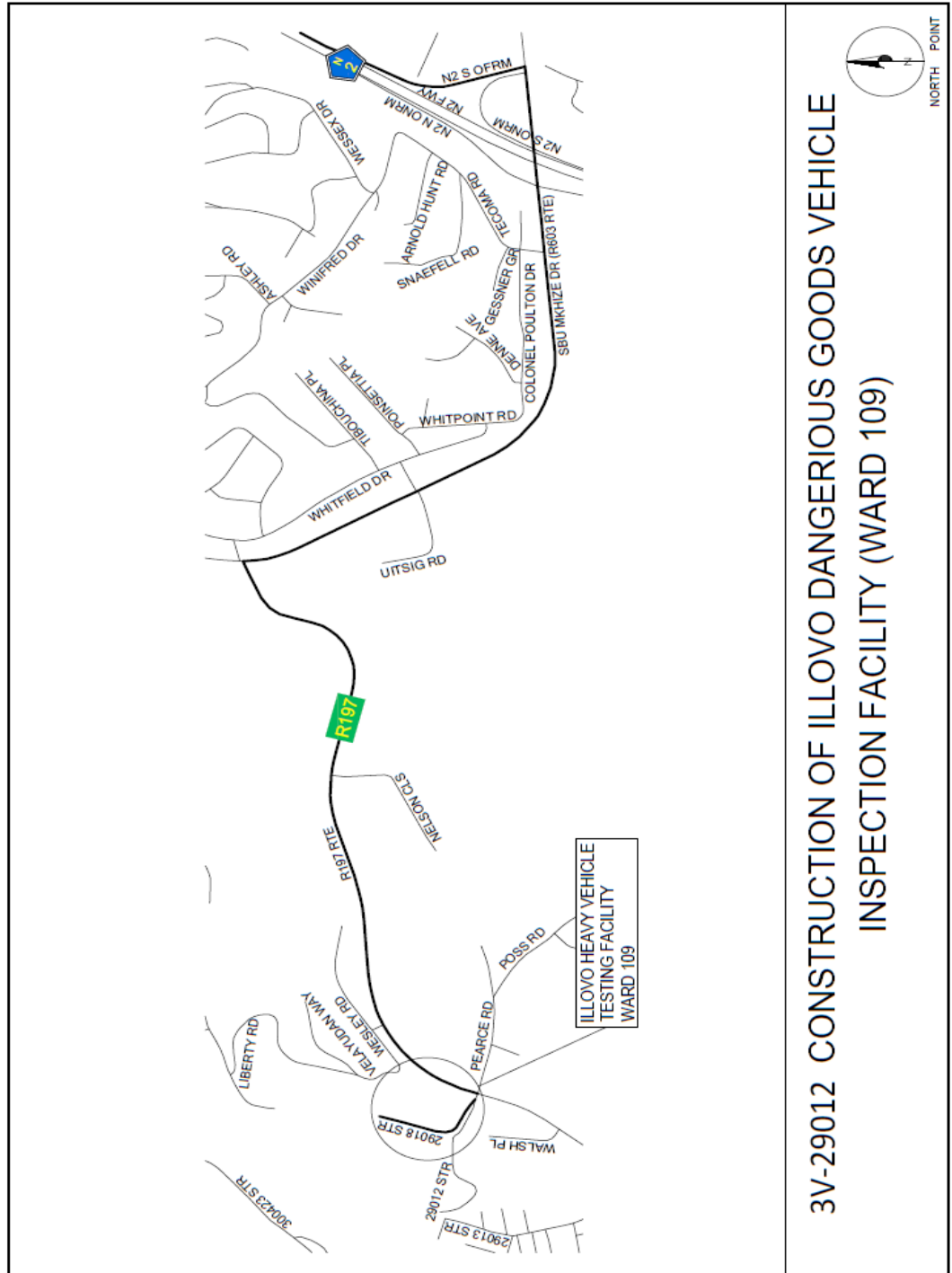
**C3.6: ANNEXURES**

**C3.6.1 Notice Board**

 <p><b>eTHEKWINI MUNICIPALITY</b> ENGINEERING UNIT DEVELOPMENT ENGINEERING</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>PLAN DESCRIPTION</td><td>DWG. NO.</td></tr> <tr><td>CONTINUED FROM</td><td></td></tr> <tr><td>CONTINUED ON</td><td></td></tr> <tr><td>CROSS SECTIONS</td><td></td></tr> <tr><td>TYPICAL CROSS SECTION</td><td></td></tr> <tr><td>SURVEY LAYOUT</td><td></td></tr> </table>	PLAN DESCRIPTION	DWG. NO.	CONTINUED FROM		CONTINUED ON		CROSS SECTIONS		TYPICAL CROSS SECTION		SURVEY LAYOUT		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>REDUCED PLAN USE SCALE BELOW</td></tr> <tr><td>0 10 20 30 40 50 60 70 80 90 100</td></tr> <tr><td>10mm ON ORIGINAL PLAN</td></tr> </table>	REDUCED PLAN USE SCALE BELOW	0 10 20 30 40 50 60 70 80 90 100	10mm ON ORIGINAL PLAN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2">DRAWING SPECIFIC TO DEVELOPMENT ENGINEERING ONLY</td></tr> <tr><td>REV.</td><td>DATE</td></tr> <tr><td>Z</td><td>2023-08-18</td></tr> <tr><td colspan="2">DESCRIPTION</td></tr> <tr><td colspan="2">Contract No.</td></tr> <tr><td colspan="2">Project Title</td></tr> <tr><td colspan="2" style="text-align: center;"><b>STANDARD DRAWING</b></td></tr> <tr><td colspan="2">Drawing Title</td></tr> <tr><td colspan="2"><b>TYPICAL NOTICE BOARD FOR ENGINEERING UNIT</b></td></tr> </table>	DRAWING SPECIFIC TO DEVELOPMENT ENGINEERING ONLY		REV.	DATE	Z	2023-08-18	DESCRIPTION		Contract No.		Project Title		<b>STANDARD DRAWING</b>		Drawing Title		<b>TYPICAL NOTICE BOARD FOR ENGINEERING UNIT</b>	
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<p><b>HARDBOARD NOTICE BOARD FOR MITAB SUBSIDISED PROJECTS</b></p> 	<p><b>DETAIL OF SURROUND</b> SCALE 1:5</p> 	<p><b>NOTES:</b></p> <p>A. Raised surround painted white.</p> <p>B. White letters.</p> <p>C. Royal Blue background - Ref. Blue 0-013.</p> <p>D. Grey background - ref. Grey 8-089.</p> <p>E. White dividing lines.</p> <p>The face to be tempered hardboard in one piece. The colour numbers refer to those on the colour cards of British Standard 2660 of 1955.</p>																																		
			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;"><b>eTHEKWINI MUNICIPALITY</b></td></tr> <tr><td colspan="2" style="text-align: center;"><b>UMASIPALA OMKHULU</b></td></tr> <tr><td colspan="2" style="text-align: center;"><b>WETHEKU NAMAPHETHELO</b></td></tr> <tr><td colspan="2" style="text-align: center;"><b>NAME OF CONTRACT</b></td></tr> <tr><td colspan="2" style="text-align: center;">DESIGNED : ENGINEERING UNIT 3111111</td></tr> <tr><td colspan="2" style="text-align: center;">ABAQAMBI : DEVELOPMENT ENGINEERING</td></tr> <tr><td colspan="2" style="text-align: center;">CONTRACTOR : NAME OF FIRM</td></tr> <tr><td colspan="2" style="text-align: center;">INKONTLEKA :</td></tr> </table>	<b>eTHEKWINI MUNICIPALITY</b>		<b>UMASIPALA OMKHULU</b>		<b>WETHEKU NAMAPHETHELO</b>		<b>NAME OF CONTRACT</b>		DESIGNED : ENGINEERING UNIT 3111111		ABAQAMBI : DEVELOPMENT ENGINEERING		CONTRACTOR : NAME OF FIRM		INKONTLEKA :																		
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**PART C4: SITE INFORMATION**

**C4.1 LOCALITY PLAN**



**3V-29012 CONSTRUCTION OF ILLOVO DANGEROUS GOODS VEHICLE  
INSPECTION FACILITY (WARD 109)**

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**C4.2 CONDITIONS ON SITE**

Geotechnical Assessment and Recommendations for Development.

**1. Geology and Subsoils**

The region is underlain by Pietermaritzburg Formation shale bedrock and the associated active clay soils. No dolerite intrusions have been mapped in the vicinity but this does not preclude their existence.

Shale exposed in the pits is typically a highly to completely weathered, grey and dark grey, close to medium jointed, very soft to soft (occasionally medium hard) rock from between 0.2 & 1.0m depth. Residual soils are limited in extent (possibly related to past earthworks levelling the platforms) and typically comprise slightly moist, grey and dark grey, firm to stiff, fissured to shattered, gravelly silty clay; these extend to a maximum depth of about 1.0m although they may be deeper on the eastern portion of the site towards the drainage line / edge of platform.

**2. Excavatability**

Inspection bay trenches are inferred to be in the order of 1.5m deep. Mechanical excavation to some 2m depth should be readily achievable ('soft' in terms of the SABS 1200) across the upper platform, although possibly slowing towards 2m in places where soft to medium hard shale may be encountered.

**3. Earthworks**

Platforms are already in place and one might anticipate limited earthworks. The brick building will remain and be refurbished. Excavations will include foundation or service trenches and the 'semibasement' inspection bays, with minor trimming for new access driveways and the like in the northwest and southeast of the site. That said, the very poor quality of the insitu materials and the heavy loading of the trucks will probably necessitate substantial undercutting and replacement with suitable, imported materials in the trafficked areas.

Should any filling occur (for example, formalising the edges of the platform), blended shale and residual clay materials may be placed in layers not exceeding 200mm loose thickness and compacted to no more than 90% of Mod AASHTO density. Moisture content must be strictly controlled during compaction. Over compaction will lead to heave. Cut and fill batters should ideally be limited to 1:1.5 (1:2 preferred) and suitably vegetated with groundcover to protect against future erosion. Steeper batters in the cohesive clays will stand for an extended period but may possibly have issues holding a topsoil and groundcover which may 'slide off' if too steep. On this slope, batters are unlikely to exceed about 1m height.

In heavily trafficked spaces, it would be prudent to replace up to about 1m (including layer works) of the residual clay or very soft shale with imported, inert material to bridge the active

clays. A proper engineered design of pavement layer works, based on vehicle loading and insitu materials, has been done.

Prior to placing any fill or layer works, all vegetation must be removed. There is little to no 'topsoil' over much of the site, but much rubbish and rubble scattered around. There are also likely to be old soakpits (stormwater and/or sewer, e.g. vicinity IP4). All 'foreign' matter must be removed below any new fill or development footprint. Any resulting cavities must be backfilled in suitably compacted layers to avoid excessive settlement below the new structures and paving.

Regarding clearing the site for earthworks, it contains, and is surrounded by, several trees which may play a role in the local reduction of soil moisture. Where possible, some trees should be maintained for aesthetics, but all fig trees should be removed (unless located more than 1.5x mature height of tree away from any structure). There is currently a strangler fig growing against the back of the brick building and the highly invasive root and trunk system will ultimately cause structural damage to the building and any water bearing services nearby. Another fig was noted on the northern boundary, roughly where the northern-most inspection bay is proposed. Tree stumps and large roots should be removed, and the cavities backfilled in compacted layers. Some roots may have to be poisoned to prevent them re-growing (figs are voracious) as not all roots will be accessible to remove.

#### **4. Seepage and Groundwater**

No seepage was noted in the test pits or anywhere on site (inferred soakpit at IP4 excluded) although the eastern boundary is functionally close to a (modified) drainage line. A short term perched water table may be possible above the bedrock after prolonged or heavy rain as the remaining soil cover is very thin and may rapidly wet up. That said, provided free surface drainage is maintained, this risk is limited in the clayey soils.

#### **5. Stormwater Control**

The underlying soils have a moderate potential for volume changes with soil moisture fluctuations. That said, the soil thickness is very limited and foundations will be into competent bedrock so potential damage due to soil activity is limited. Nonetheless, stormwater from roofs and paved areas must be removed in lined drains or pipes to discharge to the road surface or municipal service, if present (none shown on GIS). Excess water must not be allowed to pond adjacent to buildings and no discharge points should be closer than 3m to any structure. Plants that require regular watering should not be placed close to structures.

## 6. Effluent Disposal

The percolation test was abandoned due to too shallow bedrock. After profiling soils on the balance of the site, it is considered the entire site is unsuitable for on-site disposal of effluent by soak pit and French drain. All effluent will have to be removed from site, either by pumping to the sewer line about 200m to the west, or via a conservancy tank that will require regular emptying, in perpetuity.

## 7. Summary

The site is stable in its current state; the proposed development is not expected to negatively impact that in any way.

A founding classification of 'R-H1' is given (in terms of NHBRC). Assuming a maximum load of 150kPa, lightly reinforced strip footings, or pillars and pads, into competent soft rock shale (hard hand pickable) at between 0.5 – 1.5m depth are considered appropriate founding solutions, provided moisture is controlled across the site in the long term to avoid possible seasonal swell in the shale at shallow depths.

In situ, cohesive materials are of poor quality, weak and prone to heave; these are not suitable for any engineering use but may be used for general fill at the edges of the platform if required. Boxing out of the weak clay and shale, and importing of suitable subgrade, will be required for below paved driveways and parking areas. A pavement design will better define the requirements for layer works based on the anticipated vehicle loading.

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## C4.3 TEST RESULTS

### 1. Residual Soils

Three samples of the residual soils revealed active, silty or gravelly clays with plasticity indices of 17 to 24 and linear shrinkages of 9 to 12. AASHTO classifications were very poor at A-7-6 (11 to 14). Two of these samples were further tested for Mod density and CBR. Mod densities were 1613kg/m<sup>3</sup> and 1672kg/m<sup>3</sup> at optimum moisture contents of 20.6% and 16.5% respectively. CBR values were 1-2 at 90% of Mod, increasing marginally to 3-8 at 100% of Mod; a CBR swell of 2.3% shows a moderately high potential for rebound heave if over compacted. As such, the insitu residual soils are not even G10 quality in terms of the TRH14 and have no engineering use in construction.

### 2. Weathered Shale

A single sample of highly weathered, very soft rock shale was graded and shown to be a very gravelly clay with a plasticity index of 12 and a linear shrinkage of 8. The AASHTO classification was poor at A-6 (2). A Mod density of 1936kg/m<sup>3</sup> was determined with an optimum moisture content of 8.1%. CBR values ranged from 1 to 5 at 90 and 100% of Mod density respectively. A CBR swell of 1.9% was recorded, giving the material a 'worse than G10' TRH14 classification. While 'better' quality than the residual clays, the weathered shale bedrock is also not suitable for engineering purposes.

### 3. Test Results

Test results can be seen below:

## Roads Provision Department

### Soil Classification

Project :	Illovo Vehicle Testing
Source :	IP2
Location :	-
Layer :	-
Depth (mm) :	1 m
Soil Description :	- clayey gravel with sand (-)

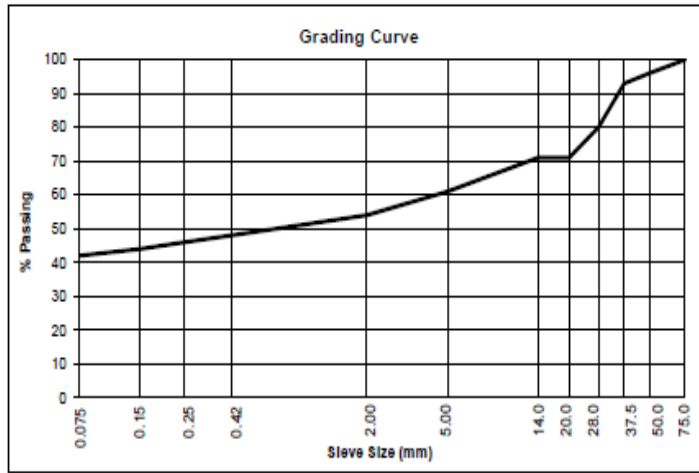
Contract No. :

Results to :   
 Email Address :

Date Sampled :   
 Sample No. :

Insitu moisture content :

Grading :	Sieve Size (mm)	% Passing
	75.0	100
	63.0	98
	50.0	96
	37.5	93
	28.0	80
	20.0	71
	14.0	71
	5.000	61
	2.000	54
	0.425	48
	0.250	46
	0.150	44
	0.075	42



Liquid Limit :	31
Plastic Limit :	19
Plasticity Index :	12
Linear Shrinkage :	8
Grading Modulus :	1.6
Group Index :	2
Cu :	#####
Cc :	0.3
MOD :	1936
OMC :	8.1
CBR @ 90% MDD :	1.0
CBR @ 93% MDD :	2.0
CBR @ 95% MDD :	2.0
CBR @ 98% MDD :	4.0
CBR @ 100% MDD :	5.0
Swell @ 10.0% MDD :	1.9

Comment :

Unified Classification :	GC
AASHTO Classification :	A-6 (2)
TRH14 Classification :	Worse than G10

Signed & Dated :   
 Materials Tester :

## Roads Provision Department

### Soil Classification

Project :	Illovo
Source :	TP3
Location :	-
Layer :	-
Depth (mm) :	0,3 - 0,5m
Soil Description :	dk br gravel silt with sand (-)

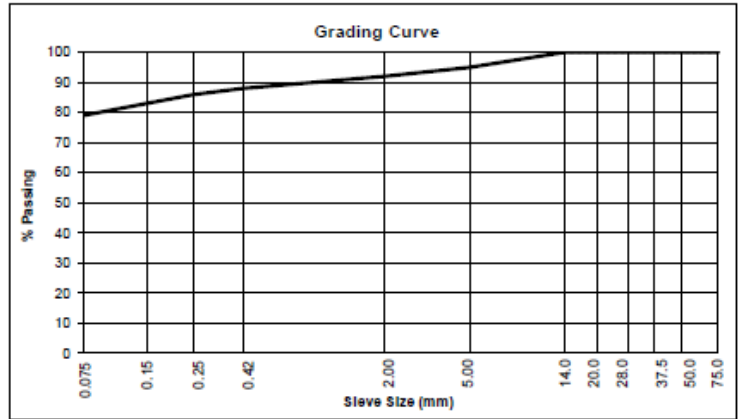
Contract No. : -

Results to : -  
 Email Address : 0

Date Sampled : 00/01/1900  
 Sample No. : 053-2022 - 2023

Insitu moisture content : 8.1

Grading :	Sieve Size (mm)	% Passing
	75.0	100
	63.0	100
	50.0	100
	37.5	100
	28.0	100
	20.0	100
	14.0	100
	5.000	95
	2.000	92
	0.425	88
	0.250	86
	0.150	83
	0.075	79



Liquid Limit :	49
Plastic Limit :	30
Plasticity Index :	20
Linear Shrinkage :	10
Grading Modulus :	0.4
Group Index :	14
Cu :	5792.6
Cc :	0.2
MOD :	1672
OMC :	16.5
CBR @ 90% MDD :	1.0
CBR @ 93% MDD :	1.0
CBR @ 95% MDD :	1.0
CBR @ 98% MDD :	2.0
CBR @ 100% MDD :	3.0
Swell @ 100.0% MDD :	2.3

Comment :

Unified Classification :	ML
AASHTO Classification :	A-7-6 (14)
TRH14 Classification :	Worse than G10

Signed & Dated :    
 Materials Tester : Z.M. Luthuli

## Roads Provision Department

### Soil Classification

Project :	Illovo
Source :	Test Pit 6
Location :	-
Layer :	-
Depth (mm) :	0,6-0,8
Soil Description :	- lean clay with sand (-)

Contract No. : -

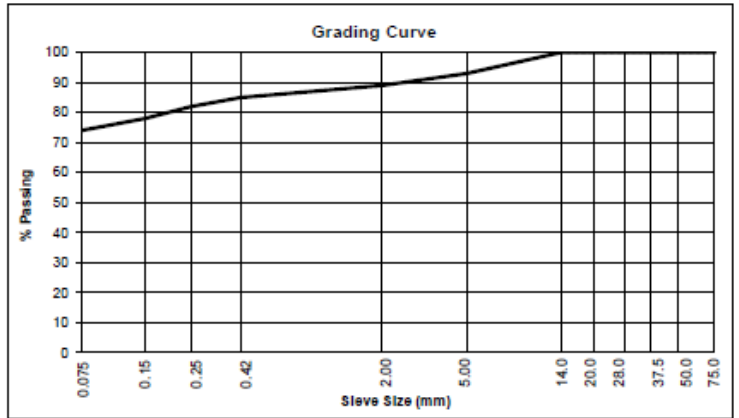
Results to : Debbie  
 Email Address : -

Date Sampled : 09/02/2023  
 Sample No. : 054-2022/2023

Insitu moisture content : 11.2

Grading :

Sieve Size (mm)	% Passing
75.0	100
63.0	100
50.0	100
37.5	100
28.0	100
20.0	100
14.0	100
5.000	93
2.000	89
0.425	85
0.250	82
0.150	78
0.075	74



Liquid Limit :	41
Plastic Limit :	24
Plasticity Index :	17
Linear Shrinkage :	9
Grading Modulus :	0.5
Group Index :	11
Cu :	5792.6
Cc :	0.2
MOD :	1613
OMC :	20.6
CBR @ 90% MDD :	2.0
CBR @ 93% MDD :	3.0
CBR @ 95% MDD :	4.0
CBR @ 98% MDD :	6.0
CBR @ 100% MDD :	8.0
Swell @ 10.0% MDD	2.3

Comment :

Unified Classification :	CL
AASHTO Classification :	A-7-6 (11)
TRH14 Classification :	Worse than G10

Signed & Dated : Materials Tester : Z.M. Luthuli

## Roads Provision Department

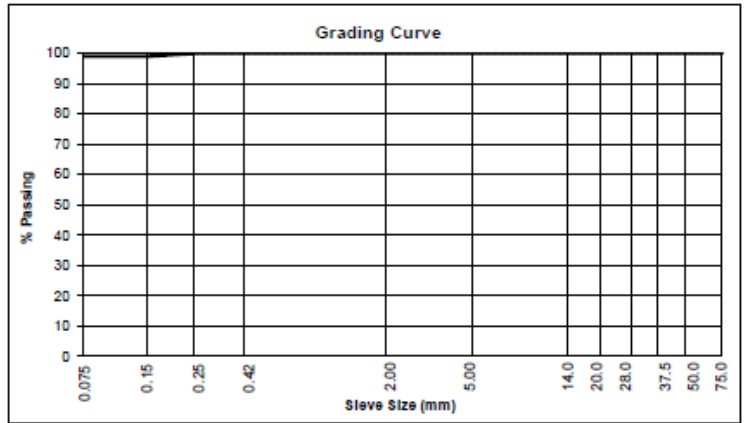
### Soil Classification

Project :	Illovo Testing Station	Contract No. :	-
Source :	IP 5	Results to :	Debbie
Location :	-	Email Address :	-
Layer :	-	Date Sampled :	09/02/2023
Depth (mm) :	0,5m	Sample No. :	055-2022/2023
Soil Description :	- lean clay (-)		

Insitu moisture content : 25

Grading :

Sieve Size (mm)	% Passing
75.0	100
63.0	100
50.0	100
37.5	100
28.0	100
20.0	100
14.0	100
5.000	100
2.000	100
0.425	100
0.250	100
0.150	99
0.075	99



Liquid Limit :	43
Plastic Limit :	19
Plasticity Index :	24
Linear Shrinkage :	12
Grading Modulus :	0.0
Group Index :	14
Cu :	-
Cc :	-
MOD :	#N/A
OMC :	#N/A
CBR @ 90% MDD :	-
CBR @ 93% MDD :	-
CBR @ 95% MDD :	-
CBR @ 98% MDD :	-
CBR @ 100% MDD :	-
Swell @ 100% MDD :	-

Comment :

Unified Classification :	CL
AASHTO Classification :	A-7-6 (14)
TRH14 Classification :	(G8/9/10 or worse)

Signed & Dated : Z.M. Luthuli