



DEPARTMENT (Cluster)

TECHNICAL SERVICES

DIRECTORATE (Unit)

Waste Management

DIVISION

Plant and Engineering

PROCUREMENT DOCUMENT : [Infrastructure \(SAICE GCC\)](#)

Documents are to be obtained, free of charge, in electronic format, from the [National Treasury's eTenders website](#) or the [eThekwin Municipality website](#)

Contract No: 33287-6W

Contract Title: Wyebank Garden Waste Site Closure, Phase 1

Estimated CIDB: Grade: 5 Class: CE

CLARIFICATION MEETING AND QUERIES

Clarification Meeting: [Compulsory Clarification Meeting](#)

Meeting Location: [At Wyebank Site, Wyebank Road, Kloof](#)

Date, Time: [On \[14 October 2025\] at \[11:00 am\]](#)

Administrative Queries: Name: Mfundo Nhlengethwa
Tel: 083 526 2584
eMial: Mfundo.Nhlengethwa@durban.gov.za

Queries can be addressed to: Name: Brendon Jewaskiewitz

The Employer's Agent's: Tel: 082 927 3071

Representative: eMail: brendon@envitech.co.za. All email queries must be submitted by 23 October 2025 and consolidated questions and answers to be uploaded on website by 30 October 2025.

TENDER SUBMISSION

The Tender Offer (hard copy) shall be delivered to:

Delivery location: [The Tender Box in the foyer of the Municipal Building, 166 KE Masinga Road, Durban](#)

An **electronic submission** is also to be made via the eThekwin Municipality **JDE System (SSS Module)** (see Tender Data: C.2.13).

**JDE Queries
Contact:**

Lindo Dlamini: Tel: 031-322-7133 / 031-322-7153
Email: supplier.selfservice@durban.gov.za

Closing Date/ Time: [Friday, 07 November 2025](#) at **11h00**

Tender Offers submitted via any means other than that stated in the Tender Data will be deemed invalid

Issued by:

ETHEKWINI MUNICIPALITY

FOR OFFICIAL USE ONLY

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

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 [to install a fence and construction of concrete v-drains and Ancillary works at Wyebank Garden Site]

Subject	Description	Tender Data
Employer	The Employer is the eThekweni Municipality as represented by: Deputy Director: Plant and Engineering	C.1.1.1
Tender Documents	Documentation is to be downloaded from the National Treasury's eTenders website or the eThekweni Municipality Website : <ul style="list-style-type: none"> • https://www.etenders.gov.za/ • https://www.durban.gov.za/pages/business/procurement 	C.1.2
CIDB Eligibility	It is <u>estimated</u> that Tenderers should have a CIDB contractor grading designation of 5 CE (or higher).	C.2.1.2
Clarification Meeting	At Wyebank Site, Wyebank Road, Kloof On [14 October 2025] at [11:00 am]	C.2.7
Seek Clarification	Queries relating to these documents are to be addressed to the Employer's Agent's Representative whose contact details are: Name: Brendon Jewaskiewitz Tel: 082 927 3071 eMail: brendon@envitech.co.za.	C.1.4
Submitting a Tender Offer	The Tender Offer (hard copy) shall be delivered to: The Tender Box in the foyer of the Municipal Building, 166 KE Masinga Road, Durban An electronic submission , via the eThekweni Municipality JDE System (SSS Module) , is also to be made. Refer to Part T1.1.2 and Tender Data: C.2.13. Notwithstanding the electronic submission , a tender offer will only be deemed valid if the "hard copy" submission has been made.	C.2.13
Closing Time	The Tender Offer (hard copy) shall be delivered, and the electronic submission completed, both on or before Friday, 07 November 2025 , at or before 11h00 .	C.2.15
Evaluation of Tender Offers	The 80/20 Price Preference Point System, as specified in the SCM Policy: Section 52: Preferential Procurement will be applied in the evaluation of tenders. Tender Data: C.3.11: Evaluation of Tender Offers details the awarding of Preference Points, and other related evaluation requirements.	C.3.11

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

CIDB B.U.I.L.D. Programme Standards		
	CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts	Applicable
	CIDB Standard for Developing Skills through Infrastructure Contracts	Not Applicable

T1.1.2: INFORMATION REGARDING THE ETHEKWINI JDE SYSTEM

This Part (T1.1.2) is for information purposes only.

Compliance requirements are stated in Part T1.2: Tender Data.

1) General

eThekwini Municipality Bids, Tenders and Quotations (hereafter referred to as Tenders) are going to be submitted using the JDE System.

This JDE System will be used for:

- Viewing of available (open) Tenders,
- Downloading procurement documentation for Tenders,
- Uploading completed and signed Tender documentation,
- Completion and submission of Tenders electronically,
- Viewing the Tender opening schedule.

2) Registrations

To be granted access to the **JDE System** prospective service providers must be registered on the **National Treasury's Central Supplier Database (CSD)**, the **eThekwini Municipality Supplier Portal**, and the **eThekwini Municipality JDE System**.

National Treasury: Central Supplier Database

- Registration can be made on <https://secure.csd.gov.za>.
- Service Providers will be issued a "MAAA" number when registered.

eThekwini Municipality Supplier Portal

- Registration can be made on <https://www.durban.gov.za> by following these links:
>Business >Supply Chain Management (SCM) >Accredited Supplier & Contractor Database.

eThekwini Municipality JDE System

- Service providers requiring access must send an email to supplier.selfservice@durban.gov.za
A copy of the **Director's ID** is required:
- On receipt of this email, the Procurement and Supply Chain Management (P&SCM) Directorate will respond with the login credentials and a link to the **JDE System**.

3) Assistance with using the JDE System

The following P&SCM Official(s) can be contacted in connection with any queries regarding the use of the **JDE System**:

- Lindo Dlamini Tel: 031 322 7153 or 031 322 7133
Email: supplier.selfservice@durban.gov.za

4) Viewing of available tenders

By following link <https://rfq.durban.gov.za/jde/E1Menu.maf> prospective Service Providers will be able to view available (open) Tender opportunities without signing into the system. However, Service Providers will not be able to respond to a Tender without being signed into the system using a JDE User ID and Password.

5) **Tender documentation**

By accessing the **JDE System** (using <https://rfq.durban.gov.za/>) and viewing any available Tenders, prospective Service Providers will be able to download the relevant Tender documentation.

The Tender documentation consists of the **TENDER** and **CONTRACT Parts**, as described in the INDEX, and will include any drawings and other information (if applicable). Referred to or included in the documentation are the **Standard Conditions of Tender (and associated Tender Data)**, and the **Conditions of Contract (and associated Contract Data)** which will govern the tendering and contract processes respectively.

6) **Submission of tender offers**

Reference is to be made to the **Tender Data: C.2.13** that specifies compliance requirements.

Tender Offers are to be delivered, in “hard copy” format, to the Delivery Location as stated in the **Tender Data**.

In addition to the above, **Tender Offers are also to be SUBMITTED ELECTRONICALLY** (uploaded) on the eThekweni Municipality JDE System (Supplier Self Service (JDE-SSS) Module). Notwithstanding the **electronic submission**, a tender offer will only be deemed valid if the “hard copy” submission has been made. The “hard copy” submission will be deemed to be the ruling version.

Bidders are responsible for resolving all access rights and submission queries on the JDE System before the tender closing date/ time, as stated in the **Tender Data: C.2.15**.

7) **Viewing the Tender opening schedule**

Users on the **JDE System** will be able to view the **Tender Opening Schedule** for each closed Tender. The tender opening schedule will also be made available on the eThekweni Municipal website at URL: <https://www.durban.gov.za/pages/business/publication-of-received-bids>

T1.1.3: NOTES TO TENDERERS

These “Notes to Tenderers” are intended to provide guidance to Tenderers regarding tendering obligations and requirements.

Compliance requirements are stated in the relevant parts of the Tender Data: T1.2.

eThekwini Supply Chain Management Policy (SCMP)

The requirements as stated in the Employer’s SCM Policy include, but are not limited to, the following:

1) Section 14(4): ETM Supplier Database

The eThekwini Supply Chain Management Policy requires suppliers/ service providers/ contractors to be registered on the eThekwini Municipality’s Vendor Portal.

In the event of the Tenderer not being registered on the eThekwini Municipality’s Supplier Portal, the Tenderer must register on the internet at www.durban.gov.za by following these links:

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

The following is to be noted:

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

2) Section 20(1)(d)(i): Audited Financial Statements

Audited Financial Statements are required to be submitted if the value of the tender offer exceeds R10 million (incl. VAT). See **Returnable Form: MBD 5** and **Returnable Form: Contracts awarded by Organs of State** in the past 5 years.

3) Section 20(1)(d)(iii): Contracts Awarded during the past 5 Years

Tenderers are to include with their submission a listing of any contracts awarded to the Tenderer during the past 5 years, including particulars of any material non-compliance or dispute concerning the execution of the contracts. Tenderers are referred to **Returnable Form: MBD 5**

4) Section 13.1(b)(vii), 20(1)(d)(ii), 28.2(d), 29.6(a), 38.1(d), and 29.14: Municipal Rates and Taxes (Fees)

Tenderers are to refer to **Returnable Form: Declaration of Municipal Fees** to certify that they have no undisputed commitments for municipal services towards any municipality. Prior to an award, a Tenderer’s municipal rates and taxes cannot be in arrears. Should a Tenderer be in arrears with respect to municipal services and has formalised an agreement with the respective municipality to offset the arrears, the agreement must be in place at time of tender closing.

5) Section 21.2: Tender Validity

Tenders are to remain valid for twelve (12) months after the expiry of the original tender validity period unless the Municipality is notified, in writing, of anything to the contrary.

6) Section 28(2)(d), Section 28(2)(h) and Section use 29(12): Certifications and Registrations

CIDB Registration and Status, B-BBEE Certificates, and Tax Compliance Status PINs must be valid at tender closing, and before final award.

The Tenderer's Tax Compliance Status, CIDB Registration and Status (if required), and B-BBEE Level Status (if required), will be verified using the National Treasury Central Supplier Database (CSD). Tenderers are referred to **Returnable Form: Compulsory Enterprise Questionnaire**.

It is the Tenderer's responsibility to ensure that their data on the CSD is kept updated and correctly reflects the status of the tendering entity.

7) Section 28(2)(f), and 52.5.13: Joint Ventures (JV)

Each party of a JV must submit separate Tax Compliance Status PINs.

Also, and unless otherwise stated, the requirements for a single entity submission in terms of documentation requirements, will apply to each member of a JV making a submission.

As proof that a JV has been formalised, or that the parties to the JV agree to formalise the JV should they be successful in being recommended for the award of this tender, Tenderers are referred to **Returnable Form: Joint Venture Agreements**.

8) Section 49.1.2: Complaints and Objections (Appeals)

A non-refundable tariff, as per the approved Council tariffs, is payable by the Complainant to the Municipality. Proof of the payment of the Fee must be attached to the Complaint.

CIDB**Regulation 25(8)**

- 9) 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.

Tenderers are referred to **CIDB Inform Practice Note #32: "Application of the Potentially Emerging (PE) Status"**.

B.U.I.L.D. Programme

- 10) A programme to accelerate transformation in the construction industry, increase the capacity of the construction industry to deliver infrastructure and support the growth of emerging contractors, was launched on 14 March 2024 by the Deputy Minister of Public Works and Infrastructure and the Construction Industry Development Board.

Details of the B.U.I.L.D. Programme were published in a Government Gazette in 2020 (GG 43726) and B.U.I.L.D. has gradually been phased in at various levels of government and the private sector. The CIDB, a public entity with the mandate to promote improved performance in construction, oversees the programme and manages the B.U.I.L.D Fund.

The B.U.I.L.D programme determines that public sector entities which implement construction projects, that meet certain minimum requirements, must include developmental goals to the deliverables defined in the tenders. Contractors are required to include these goals in the plans and pricing when they submit their tender bids.

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 C** of the CIDB Standard for Uniformity in Construction Procurement as published in Government Gazette No 42622, Board Notice 423 of 8 August 2019, as duplicated below.

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.

Annex C

Standard Conditions of Tender

C.1	General	
C.1.1	Actions	
C.1.1.1	The employer and each tenderer submitting a tender offer shall comply with these conditions of tender. In their dealings with each other, they shall discharge their duties and obligations as set out in C.2 and C.3, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations and not engage in anticompetitive practices.	2) <i>Conflicts of interest in respect of those engaged in the procurement process include direct, indirect or family interests in the tender or outcome of the procurement process and any personal bias, inclination, obligation, allegiance or loyalty which would in any way affect any decisions taken.</i>
C.1.1.2	The employer and the tenderer and all their agents and employees involved in the tender process shall avoid conflicts of interest and where a conflict of interest is perceived or known, declare any such conflict of interest, indicating the nature of such conflict. Tenderers shall declare any potential conflict of interest in their tender submissions. Employees, agents and advisors of the employer shall declare any conflict of interest to whoever is responsible for overseeing the procurement process at the start of any deliberations relating to the procurement process or as soon as they become aware of such conflict and abstain from any decisions where such conflict exists or recuse themselves from the procurement process, as appropriate.	C.1.1.3 The employer shall not seek, and a tenderer shall not submit a tender, without having a firm intention and the capacity to proceed with the contract.
		C.1.2 Tender Documents
		The documents issued by the employer for the purpose of a tender offer are listed in the <i>Tender Data</i> .
		C.1.3 Interpretation
		C.1.3.1 The <i>Tender Data</i> and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these conditions of tender.
		C.1.3.2 These conditions of tender, the <i>Tender Data</i> and tender schedules which are required for tender evaluation purposes, shall form part of any contract arising from the invitation to tender.
	<i>Note:</i> 1) <i>A conflict of interest may arise due to a conflict of roles which might provide an incentive for improper acts in some circumstances. A conflict of interest can create an appearance of impropriety that can undermine confidence in the ability of that person to act properly in his or her position even if no improper acts result.</i>	

C.1.3.3 For the purposes of these conditions of tender, the following definitions apply:

- a) **conflict of interest** means any situation in which:
 - i) someone in a position of trust has competing professional or personal interests which make it difficult to fulfil his or her duties impartially;
 - ii) an individual or tenderer is in a position to exploit a professional or official capacity in some way for their personal or corporate benefit; or
 - iii) incompatibility or contradictory interests exist between an employee and the tenderer who employs that employee.
- b) **comparative offer** means the price after the factors of a non-firm price and all unconditional **discounts** it can be utilised to have been taken into consideration;
- c) **corrupt practice** means the offering, giving, receiving or soliciting of anything of value to influence the action of the employer or his staff or agents in the tender process;
- d) **fraudulent practice** means the misrepresentation of the facts in order to influence the tender process or the award of a contract arising from a tender offer to the detriment of the employer, including collusive practices intended to establish prices at artificial levels;

C.1.4 Communication and employer's agent

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

C.1.5 Cancellation and Re-Invitation of Tenders

- C.1.5.1 An employer may, prior to the award of the tender, cancel a tender if-
 - a) due to changed circumstances, there is no longer a need for the engineering and construction works specified in the invitation;
 - b) funds are no longer available to cover the total envisaged expenditure;

- c) no acceptable tenders are received;
- d) there is a material irregularity in the tender process.

C.1.5.2 The decision to cancel a tender invitation must be published in the same manner in which the *original* tender invitation was advertised.

C.1.5.3 An employer may only with the prior approval of the relevant treasury cancel a tender invitation for the second time.

C.1.6 Procurement procedures

C.1.6.1 General

Unless otherwise stated in the **Tender Data**, a contract will, subject to C.3.13, be concluded with the tenderer who in terms of C.3.11 is the highest ranked or the tenderer scoring the highest number of tender evaluation points, as relevant, based on the tender submissions that are received at the closing time for tenders.

C.1.6.2 Competitive negotiation procedure

C.1.6.2.1 Where the **Tender Data** require that the competitive negotiation procedure is to be followed, tenderers shall submit tender offers in response to the proposed contract in the first round of submissions. Notwithstanding the requirements of C.3.4, the employer shall announce only the names of the tenderers who make a submission. The requirements of C.8 relating to the material deviations or qualifications which affect the competitive position of tenderers shall not apply.

C.1.6.2.2 All responsive tenderers or at least a minimum of not less than three responsive tenderers that are highest ranked in terms of the evaluation criteria stated in the **Tender Data** shall be invited to enter into competitive negotiations based on the principle of equal treatment, keeping confidential the proposed solutions and associated information.

Notwithstanding the provisions of C.2.17, the employer may request that tenders be clarified, specified and fine-tuned in order to improve a tenderer's competitive position provided that such clarification, specification, fine-tuning or additional information does not alter any fundamental aspects of the offers or impose substantial new requirements which restrict or distort competition or have a discriminatory effect.

C.1.6.2.3 At the conclusion of each round of negotiations, tenderers shall be invited by the employer to revise their tender offer based on the same evaluation criteria, with or without adjusted weightings. Tenderers shall be advised when they are to submit their best and final offer.	submit a tender offer and obtain the employer's written approval to do so prior to the closing time for tenders.
C.1.6.2.4 The contract shall be awarded in accordance with the provisions of C.3.11 and C.3.13 after tenderers have been requested to submit their best and final offer.	C.2.2 Cost of tendering
C.1.6.3 Proposal procedure using the two stage-system	C.2.2.1 Accept that, unless otherwise stated in the Tender Data , the employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer complies with requirements.
C.1.6.3.1 Option 1	C.2.2.2 The cost of the tender documents charged by the employer shall be limited to the actual cost incurred by the employer for printing the documents. Employers must attempt to make available the tender documents on its website so as not to incur any costs pertaining to the printing of the tender documents.
Tenderers shall in the first stage submit technical proposals and, if required, cost parameters around which a contract may be negotiated. The employer shall evaluate each responsive submission in terms of the method of evaluation stated in the Tender Data , and in the second stage negotiate a contract with the tenderer scoring the highest number of evaluation points and award the contract in terms of these conditions of tender.	C.2.3 Check documents
C.1.6.3.2 Option 2	Check the tender documents on receipt for completeness and notify the employer of any discrepancy or omission.
C.1.6.3.2.1 Tenderers shall submit in the first stage only technical proposals. The employer shall invite all responsive tenderers to submit tender offers in the second stage, following the issuing of procurement documents.	C.2.4 Confidentiality and copyright of documents
C.1.6.3.2.2 The employer shall evaluate tenders received during the second stage, in terms of the method of evaluation stated in the Tender Data , and award the contract in terms of these conditions of tender.	Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the employer only for the purpose of preparing and submitting a tender offer in response to the invitation.
C.2 Tenderer's obligations	C.2.5 Reference documents
C.2.1 Eligibility	Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the tender documents by reference.
C.2.1.1 Submit a tender offer only if the tenderer satisfies the criteria stated in the Tender Data and the tenderer, or any of his principals, is not under any restriction to do business with employer.	C.2.6 Acknowledge addenda
C.2.1.2 Notify the employer of any proposed material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used by the employer as the basis in a prior process to invite the tenderer to	Acknowledge receipt of addenda to the tender documents, which the employer may issue, and if necessary apply for an extension to the closing time stated in the Tender Data , in order to take the addenda into account.
	C.2.7 Clarification meeting
	Attend, where required, a clarification meeting at which tenderers may familiarize themselves

<p>with aspects of the proposed work, services or supply and raise questions. Details of the meeting(s) are stated in the Tender Data.</p>	<p>C.2.12 Alternative tender offers</p>
<p>C.2.8 Seek clarification</p> <p>Request clarification of the tender documents, if necessary, by notifying the employer at least five (5) working days before the closing time stated in the Tender Data.</p>	<p>C.2.12.1 Unless otherwise stated in the Tender Data, submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted as well as a schedule that compares the requirements of the tender documents with the alternative requirements that are proposed.</p>
<p>C.2.9 Insurance</p> <p>Be aware that the extent of insurance to be provided by the employer (if any) might not be for the full cover required in terms of the conditions of contract identified in the Contract Data. The tenderer is advised to seek qualified advice regarding insurance.</p>	<p>C.2.12.2 Accept that an alternative tender offer must be based only on the criteria stated in the Tender Data or criteria otherwise acceptable to the employer.</p> <p>C.2.12.3 An alternative tender offer must only be considered if the main tender offer is the winning tender.</p>
<p>C.2.10 Pricing the tender offer</p> <p>C.2.10.1 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes except Value Added Tax (VAT), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable fourteen (14) days before the closing time stated in the Tender Data.</p> <p>C.2.10.2 Show VAT payable by the employer separately as an addition to the tendered total of the prices.</p> <p>C.2.10.3 Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as provided for in the conditions of contract identified in the Contract Data.</p> <p>C.2.10.4 State the rates and prices in Rand unless instructed otherwise in the Tender Data. The conditions of contract identified in the Contract Data may provide for part payment in other currencies.</p>	<p>C.2.13 Submitting a tender offer</p> <p>C.2.13.1 Submit one tender offer only, either as a single tendering entity or as a member in a joint venture to provide the whole of the works identified in the Contract Data and described in the scope of works, unless stated otherwise in the Tender Data.</p> <p>C.2.13.2 Return all returnable documents to the employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing legibly in non-erasable ink.</p> <p>C.2.13.3 Submit the parts of the tender offer communicated on paper as an original plus the number of copies stated in the Tender Data, with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the employer.</p>
<p>C.2.11 Alterations to documents</p> <p>Do not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations.</p>	<p>C.2.13.4 Sign the original and all copies of the tender offer where required in terms of the Tender Data. The employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner whom the employer shall hold liable for the purpose of the tender offer.</p> <p>C.2.13.5 Seal the original and each copy of the tender offer as separate packages marking the packages as "ORIGINAL" and "COPY". Each package shall state on the outside the</p>

<p>employer's address and identification details stated in the <i>Tender Data</i>, as well as the tenderer's name and contact address.</p>	<p>C.2.16.1 Hold the tender offer(s) valid for acceptance by the employer at any time during the validity period stated in the <i>Tender Data</i> after the closing time stated in the <i>Tender Data</i>.</p>
<p>C.2.13.6 Where a two-envelope system is required in terms of the <i>Tender Data</i>, place and seal the returnable documents listed in the <i>Tender Data</i> in an envelope marked "financial proposal" and place the remaining returnable documents in an envelope marked "technical proposal". Each envelope shall state on the outside the employer's address and identification details stated in the <i>Tender Data</i>, as well as the tenderer's name and contact address.</p>	<p>C.2.16.2 If requested by the employer, consider extending the validity period stated in the <i>Tender Data</i> for an agreed additional period with or without any conditions attached to such extension.</p>
<p>C.2.13.7 Seal the original tender offer and copy packages together in an outer package that states on the outside only the employer's address and identification details as stated in the <i>Tender Data</i>.</p>	<p>C.2.16.3 Accept that a tender submission that has been submitted to the employer may only be withdrawn or substituted by giving the employer's agent written notice before the closing time for tenders that a tender is to be withdrawn or substituted. If the validity period stated in C.2.16 lapses before the employer evaluating tender, the contractor reserves the right to review the price based on Consumer Price Index (CPI).</p>
<p>C.2.13.8 Accept that the employer will not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.</p>	<p>C.2.16.4 Where a tender submission is to be substituted, a tenderer must submit a substitute tender in accordance with the requirements of C.2.13 with the packages clearly marked as "SUBSTITUTE".</p>
<p>C.2.13.9 Accept that tender offers submitted by facsimile or e-mail will be rejected by the employer, unless stated otherwise in the <i>Tender Data</i>.</p>	<p>C.2.17 Clarification of tender offer after submission</p> <p>Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.</p> <p><i>Note: Sub-clause C.2.17 does not preclude the negotiation of the final terms of the contract with a preferred tenderer following a competitive selection process, should the Employer elect to do so.</i></p>
<p>C.2.14 Information and data to be completed in all respects</p> <p>Accept that tender offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the employer as non-responsive.</p>	<p>C.2.18 Provide other material</p>
<p>C.2.15 Closing time</p>	<p>C.2.18.1 Provide, on request by the employer, any other material that has a bearing on the tender offer, the tenderer's commercial position (including notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment.</p> <p>Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be</p>
<p>C.2.15.1 Ensure that the employer receives the tender offer at the address specified in the <i>Tender Data</i> not later than the closing time stated in the <i>Tender Data</i>. Accept that proof of posting shall not be accepted as proof of delivery.</p>	
<p>C.2.15.2 Accept that, if the employer extends the closing time stated in the <i>Tender Data</i> for any reason, the requirements of these conditions of tender apply equally to the extended deadline.</p>	
<p>C.2.16 Tender offer validity</p>	

	provided, by the time for submission stated in the employer's request, the employer may regard the tender offer as non-responsive.		procurement process and deny any such request if as a consequence:
C.2.18.2	Dispose of samples of materials provided for evaluation by the employer, where required.		a) an individual firm, or a joint venture as a whole, or any individual member of the joint venture fails to meet any of the collective or individual qualifying requirements;
C.2.19	Inspections, tests and analysis		b) the new partners to a joint venture were not prequalified in the first instance, either as individual firms or as another joint venture; or
	Provide access during working hours to premises for inspections, tests and analysis as provided for in the Tender Data .		c) in the opinion of the Employer, acceptance of the material change would compromise the outcome of the prequalification process.
C.2.20	Submit securities, bonds and policies		
	If requested, submit for the employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the Contract Data .	C.3.2	Issue Addenda
C.2.21	Check final draft		If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until three (3) working days before the tender closing time stated in the Tender Data . If, as a result a tenderer applies for an extension to the closing time stated in the Tender Data , the Employer may grant such extension and, shall then notify all tenderers who collected tender documents.
	Check the final draft of the contract provided by the employer within the time available for the employer to issue the contract.		
C.2.22	Return of other tender documents	C.3.3	Return late tender offers
	If so instructed by the employer, return all retained tender documents within twenty-eight (28) days after the expiry of the validity period stated in the Tender Data .		Return tender offers received after the closing time stated in the Tender Data , unopened, (unless it is necessary to open a tender submission to obtain a forwarding address), to the tenderer concerned.
C.2.23	Certificates	C.3.4	Opening of tender submissions
	Include in the tender submission or provide the employer with any certificates as stated in the Tender Data .	C.3.4.1	Unless the two-envelope system is to be followed, open valid tender submissions in the presence of tenderers' agents who choose to attend at the time and place stated in the Tender Data . Tender submissions for which acceptable reasons for withdrawal have been submitted will not be opened.
C.3	The employer's undertakings	C.3.4.2	Announce at the meeting held immediately after the opening of tender submissions, at a venue indicated in the Tender Data , the name of each tenderer whose tender offer is opened and, where applicable, the total of his prices, number of points claimed for its BBEE status level and time for completion for the main tender offer only.
C.3.1	Respond to requests from the tenderer	C.3.4.3	Make available the record outlined in C.3.4.2 to all interested persons upon request.
C.3.1.1	Unless otherwise stated in the Tender Data , respond to a request for clarification received up to five (5) working days before the tender closing time stated in the Tender Data and notify all tenderers who collected tender documents.		
C.3.1.2	Consider any request to make a material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used to prequalify a tenderer to submit a tender offer in terms of a previous		

C.3.5 Two-envelope system

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

C.3.5.2 Evaluate functionality of the technical proposals offered by tenderers, then advise tenderers who remain in contention for the award of the contract of the time and place when the financial proposals will be opened. Open only the financial proposals of tenderers, who score in the functionality evaluation more than the minimum number of points for functionality stated in the **Tender Data**, and announce the score obtained for the technical proposals and the total price and any points claimed on BBEE status level. Return unopened financial proposals to tenderers whose technical proposals failed to achieve the minimum number of points for functionality.

C.3.6 Non-disclosure

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

C.3.7 Grounds for rejection and disqualification

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

C.3.8 Test for responsiveness

C.3.8.1 Determine, after opening and before detailed evaluation, whether each tender offer properly received:

- complies with the requirements of these Conditions of Tender,
- has been properly and fully completed and signed, and
- is responsive to the other requirements of the tender documents.

C.3.8.2 A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the Employer's opinion, would:

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

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

C.3.9 Arithmetical errors, omissions and discrepancies

C.3.9.1 Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount in words shall govern.

C.3.9.2 Check the highest ranked tender or tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with C.3.11 for:

- the gross misplacement of the decimal point in any unit rate;
- omissions made in completing the pricing schedule or bills of quantities; or
- arithmetic errors in:
 - line-item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or
 - the summation of the prices.

C.3.9.3 Notify the tenderer of all errors or omissions that are identified in the tender offer and either confirm the tender offer as tendered or accept the corrected total of prices.

C.3.9.4 Where the tenderer elects to confirm the tender offer as tendered, correct the errors as follows:

- If bills of quantities or pricing schedules apply and there is an error in the line-item total resulting from the product of the unit rate and the quantity, the line-item total

shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line-item total as quoted shall govern, and the unit rate shall be corrected.

- b) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates if bills of quantities apply) to achieve the tendered total of the prices.

C.3.10 Clarification of a tender offer

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

C.3.11 Evaluation of tender offers

The Standard Conditions of Tender standardize the procurement processes, methods and procedures from the time that tenders are invited to the time that a contract is awarded. They are generic in nature and are made project specific through choices that are made in developing the **Tender Data** associated with a specific project.

Conditions of tender are by definition the document that establishes a tenderer's obligations in submitting a tender and the employer's undertakings in soliciting and evaluating tender offers. Such conditions establish the rules from the time a tender is advertised to the time that a contract is awarded and require employers to conduct the process of offer and acceptance in terms of a set of standard procedures.

The CIDB Standard Conditions of Tender are based on a procurement system that satisfies the following system requirements:	
Requirement	Qualitative interpretation of goal
Fair	The process of offer and acceptance is conducted impartially without bias, providing simultaneous and timely access to participating parties to the same information.
Equitable	Terms and conditions for performing the work do not unfairly prejudice the interests of the parties.
Transparent	The only grounds for not awarding a contract to a tenderer who satisfies all requirements are restrictions from doing business with the employer, lack of capability or capacity, legal impediments and conflicts of interest.
Competitive	The system provides for appropriate levels of competition to ensure cost effective and best value outcomes.
Cost effective	The processes, procedures and methods are standardized with sufficient flexibility to attain best value outcomes in respect of quality, timing and price, and least resources to effectively manage and control procurement processes.

The activities associated with evaluating tender offers are as follows:

- Open and record tender offers received
- Determine whether or not tender offers are complete
- Determine whether or not tender offers are responsive
- Evaluate tender offers
- Determine if there are any grounds for disqualification
- Determine acceptability of preferred tenderer
- Prepare a tender evaluation report
- Confirm the recommendation contained in the tender evaluation report .

C.3.11.1 General

The employer must appoint an evaluation panel of not less than three persons conversant with the proposed scope of works to evaluate each responsive tender offer using the tender evaluation methods and associated evaluation criteria and weightings that are specified in the **Tender Data**.

C.3.12 Insurance provided by the employer

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

C.3.13 Acceptance of tender offer

Accept the tender offer; if in the opinion of the employer, it does not present any risk and only if the tenderer:

- a) is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement;
- b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract;
- c) has the legal capacity to enter into the contract;
- d) is not; insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act No. 2008, bankrupt or being wound up, has his/her affairs administered by a court or a judicial officer, has suspended his/her business activities or is subject to legal proceedings in respect of any of the foregoing;
- e) complies with the legal requirements, if any, stated in the **Tender Data**; and
- f) is able, in the opinion of the employer, to perform the contract free of conflicts of interest.

C.3.14 Prepare contract documents

C.3.14.1 If necessary, revise documents that shall form part of the contract and that were issued by the employer as part of the tender documents to take account of:

- a) addenda issued during the tender period,
- b) inclusion of some of the returnable documents and
- c) other revisions agreed between the employer and the successful tenderer.

C.3.14.2 Complete the schedule of deviations attached to the form of offer and acceptance, if any.

C.3.15 Complete adjudicator's contract

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

C.3.16 Registration of the award

An employer must, within twenty-one (21) working days from the date on which a contractor's offer to perform a construction works contract is accepted in writing by the employer, register and publish the award on the cidb Register of Projects.

C.3.17 Provide copies of the contracts

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

C.3.18 Provide written reasons for actions taken

Provide upon request written reasons to tenderers for any action that is taken in applying these conditions of tender but withhold information which is not in the public interest to be divulged, which is considered to prejudice the legitimate commercial interests of tenderers or might prejudice fair competition between tenderers.

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.

C.1: GENERAL**C.1.1 The employer:**

The Employer for this Contract is the **eThekwini Municipality** as represented by:
Deputy Director: **Plant and Engineering**

C.1.2 Tender documents:

The Tender Documents issued by the Employer comprise:

- 1) This procurement document.
- 2) The **Conditions of Contract** and associated **Contract Data** are identified in **Section C1.2.1**. Tenderers/ Contractors are required to obtain their own copies.
- 3) The **Specifications** identified in **Section C3.3.1**. Tenderers/ Contractors are required to obtain their own copies.
- 4) **Drawings**, if applicable, 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 Supply Chain Management Policy (as at advertising date).
 - 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.
 - CIDB Standard for Developing Skills Through Infrastructure Contracts, published in Gazette Notice No. 48491 of 28 April 2023.
 - CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, published in Gazette Notice No. 36190 of 25 February 2013.
 - Any other eThekwini Policy documents referenced in the Tender Documents.

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

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

C.1.4 Communication and employer's agent:

The Employer's Agent is:

Name: **Envitech Solutions (PTY) LTD**
Tel: **031-023-0980**
eMail: **info@envitech.co.za**

The Employer's Agent's Representative is:

Name: **Brendon Jewaskiewitz**
Tel: **082 927 3071**
eMail: **brendon@envitech.co.za**

The Tenderer's contact details, as indicated on **Returnable Document T2.2.1: Compulsory Enterprise Questionnaire**, shall be deemed as the only valid contact details for the Tenderer for use in communications between the Employer's Agent and the Tenderer during tender evaluation.

C.1.6 Procurement procedures:

The following Sections of the **Standard Conditions of Tender** are not applicable to this tender:

- **C.1.6.2: Competitive negotiation procedure**, and
- **C.1.6.3: Proposal procedure using the two-stage system**.

C.1.6.3 Procurement procedures:

Option 2 of the proposal procedure using the Functionality with Price and Preference shall be applied.

C.2: TENDERER'S OBLIGATIONS

C.2.1 Eligibility:

Entities may only submit one (1) tender offer, either as a single tendering entity or as a partner of a joint venture. Should a tendering entity submit more than one (1) tender, all submissions by that tendering entity, including submissions where the entity is a partner of a joint venture, will be deemed not to be eligible.

C.2.1.1 Eligibility: General

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

- (a) In the event of a Compulsory Clarification Meeting:
 - i) the Tenderer fails to attend the Compulsory Clarification Meeting, or
 - ii) the Tenderer fails to have **Returnable Document T2.2.2: Certificate of Attendance at Clarification Meeting / Site Inspection** signed by the Employer's Agent or their representative.
- (b) At the time of tender closing, the Tenderer is not registered on the **National Treasury Central Supplier Database (CSD)** and the **eThekweni Municipality Supplier Portal**. In the case of a Joint Venture, this requirement will apply individually to each party in the Joint Venture. Tenderers are to reference **Returnable Document T2.2.1: Compulsory Enterprise Questionnaire** (section 1.5) and **Returnable Document T2.2.12: "CSD Registration Report"**.
- (c) In the case of Joint Venture (JV) submissions, two or more JV entities have common directors/ shareholders or common entities tendering for the same works.
- (d) The following documentation is to be completed in full, signed, and returned with the tender submission. **Failure to comply will result in the tender offer being deemed non-responsive:**
 - T2.2.1: Compulsory Enterprise Questionnaire.
 - T2.2.5: MBD 4: Declaration of Interest.
 - **T2.2.6: MBD 5: Declaration for Procurement Above R10 Million.**
 - T2.2.8: MBD 8: Declaration of Bidder's Past SCM Practices.
 - T2.2.9: MBD 9: Certificate of Independent Bid Determination.
 - T2.2.10: Declaration of Municipal Fees
- (e) The certificates listed in the **Tender Data: C.2.23: Certificates** are to be included with the tender submission. **Failure to comply will result in the tender offer being deemed non-responsive.**
 - T2.2.1: SARS Tax Compliance Status - PIN Issued (submitted with the Compulsory Enterprise Questionnaire).

- T2.2.12: Central Supplier Database (CSD) Report.
- T2.2.13: CIDB Registration and Status.

C.2.1.2 Eligibility: CIDB

Tenderers are to reference the provisions of **Tender Data: C.2.23: Certificates and Returnable Document: T2.2.13: Verification of CIDB Registration and Status** with respect to CIDB registration.

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 **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 **CE** class of construction work or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations.

C.2.2.2 The cost of the tender documents:

Replace this paragraph with the following:

“Documents are to be downloaded, free of charge, from the **National Treasury’s eTenders website** or the **eThekweni Municipality’s Website**.”

C.2.6 Acknowledge addenda:

Add the following paragraphs:

“Addenda will be published on the **eThekweni Municipality website** as stated in **Tender Data: C.1.2**. Tenderers are to ensure that this 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 WILL result in the tender submission being made non-responsive.”

C.2.7 Clarification meeting:

At Wyebank Site, Wyebank Road, Kloof
On [14 October 2025] at [11:00 am]

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.

C.2.10.2 Pricing the tender offer:

The following is to be noted in terms of Tenderers being **VAT Registered**, or being a **Non-VAT Vendor** (ie. not VAT registered).

If the Tenderer is **VAT registered**, the Tenderer's Rates in the Bill of Quantities (BoQ) are to exclude VAT. VAT is to be shown separately on the BoQ summary page, and on the Form of Offer (Part C1.1.1).

If the Tenderer is a **Non-VAT Vendor**, the Tenderer's Rates in the Bill of Quantities are to include VAT. VAT is not to be shown separately on the BoQ summary page, or on the Form of Offer (Part C1.1.1). VAT will not be added to, or deducted from, rates or prices submitted from **Non-VAT Vendors**. The tendered priced will be deemed to include all VAT, taxes, and any applicable excise duties.

Tenderers are to refer to Part C2.1: PRICING ASSUMPTIONS / INSTRUCTIONS prior to pricing the tender offer.

C.2.12 Alternative tender offers:

No alternative tender offers will be considered.

C.2.13 Submitting a tender offer:

The signed Tender Offer ("hard copy") is to be sealed in an envelope, addressed to the City Manager, marked with the **identification details** and be delivered to the **delivery address**, both as stated below.

The **Tender Offer** (hard copy) is to be delivered to the following **delivery address**:
[the Tender Box in the foyer of the Municipal Building, 166 KE Masinga Road, Durban](#)

Identification details to be shown on the hard copy package are:

- Contract No. : **33287-6W**
- Contract Title : **Wyebank Garden Waste Site Closure, Phase 1**

Tender Offers are also to be **SUBMITTED ELECTRONICALLY** (uploaded) on the eThekweni Municipality **JDE System** (Supplier Self Service (SSS Module)). For information pertaining to the JDE System, Tenderers are referred to **Section T1.1.2**.

Notwithstanding the **electronic submission**, a tender offer will only be deemed valid if the "hard copy" submission has been made. The "hard copy" submission will be the governing submission.

The Tender documentation, issued by the eThekweni Municipality (refer to **Tender Data: C.1.2**), is to be printed in its entirety. Printing should be done on white A4 paper, with printing on only one side of the paper. (It is suggested that the Tender documentation is not stapled, or punched for filing, prior to scanning, as this could affect the scanning process.)

After completion and signature (using **BLACK INK**), the entire Tender document is to be scanned to a single PDF (Portable Document Format) document, at a resolution of 300 DPI (dots per inch). The PDF document is to be uploaded via the (Tender specific) upload option on the JDE System (SSS Module). Tenderers are responsible for resolving all access rights and submission queries on the JDE System before the tender closing date/ time (**Tender Data: C.2.15**).

Tender Offer delivery, and the electronic submission on the JDE System, are both to be completed on or before the closing date/ time stated in the **Tender Data: C.2.15**.

The submission of Tender Offers via any means other than that stated above will not be accepted, and those that are will be deemed invalid.

C.2.15 Closing date and time:

The closing time is:

- **Date** : Friday, 07 November 2025
- **Time** : 11h00

The **delivery of the hard copy AND** the completion of the requirements on the **JDE System (SSS Module)** are to be completed prior to the Tender **closing date and time** as stated above. Any Tender Offer submitted thereafter will not be considered.

C.2.16 Tender offer validity:

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

In terms of the SCM Policy (Cl.21.2) tenders must remain valid for acceptance for a period of twelve (12) months after the expiry of the original validity period, unless the Municipality is notified in writing of anything to the contrary by the tenderer.

C.2.23 Certificates:

Refer to **T2.1: “List of Returnable Documents”** 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 a printout of the required documents/ certificates at the back of their tender submission.

SARS Tax Compliance Status – PIN Issued

Reference is to be made to **Returnable Document T2.2.1: Compulsory Enterprise Questionnaire** which requires the “SARS Tax Compliance Status – PIN Issued” to be included with this returnable document.

Central Supplier Database (CSD)

Reference is to be made to **Returnable Document T2.2.12: CSD Registration Report**.

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

The date of the report, as indicated at the top right of each page, should be on or after the date of advertising of this tender.

Separate **CSD Registration Reports** are required for each party to a Joint Venture.

CIDB Registration (if applicable)

Reference is to be made to **Returnable Document T2.2.13: Verification of CIDB Registration and Status**.

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

The date of obtaining the CIDB printout(s) is to be indicated on the printout, and the Tenderer's registration with the CIDB must be reflected as "Active" as at the date of tender closing.

Separate **CIDB Registration printouts** are required for each party to a Joint Venture.

The **Joint Venture Grading Designation Calculator** printout should be included when making a submission as a Joint Venture:

(<https://registers.cidb.org.za/PublicContractors/JVGradingDesignationCalc>)

B-BBEE Status Level of Contribution Certificate

Tenderers are referred to **Returnable Document T2.2.6: MBD 6.1: Preference Points Claim** for the B-BBEE Certificate requirements. Notwithstanding the completion of Returnable Document T2.2.6, should no B-BBEE Status Level of Contribution Certificate be returned no points for Preferential Procurement will be deemed to have been claimed.

The Amended Construction Sector Code (Government Gazette No.41287) is applicable to the B-BBEE compliance measurement of all entities that fall within the Construction Sector. The requirements for measurement and verification of entities are contained in the "Amended Code Series CSC000: Framework for Measuring Broad Based Black Economic Empowerment in the Construction Sector", as published in Notice 931 of 2017, Government Gazette No.41287 of 01/12/2017.

An EME Contractor with a Total Annual Revenue of less than R3 million may present an affidavit OR a certificate issued by the CIPC OR an authorised B-BBEE verification certificate by a SANAS accredited Verification Agency.

Any B-BBEE Certificate where the entity has been assessed using **Generic Codes** will not be accepted.

C.3: THE EMPLOYER'S UNDERTAKINGS

C.3.1.1 Respond to requests from the tenderer:

Replace the words "five working days" with "three working days".

C.3.2 Issue addenda:

Add the following paragraph:

"Addenda will be published on the **eThekwini Municipality Website** (refer to **Tender Data: C.1.2**).

C.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 P&SCM Boardroom, 6th Floor, (Municipal Building), 166 KE Masinga Road, Durban.

The tender opening schedule will also be made available on the eThekwini Municipal website at URL: <https://www.durban.gov.za/pages/business/publication-of-received-bids>

C.3.9 Arithmetical errors, omissions and discrepancies:

Add the following Clause:

“C.3.9.5 Reject a tender offer if the Tenderer does not accept the correction of the arithmetical error in the manner described in C.3.9.4.”

C.3.11 Evaluation of Tender Offers:

Eligibility

Tenders will be checked for compliance with the ELIGIBILITY requirements, as specified in the **Tender Data: C.2.1**. Tenders not in compliance will be deemed non-responsive.

Functionality

FUNCTIONALITY will be evaluated to determine the responsiveness of tenders received. The minimum score for FUNCTIONALITY is 60 points. Those tenders not achieving the minimum score will be deemed non-responsive.

The functionality Criteria, Sub-Criteria, Points per Criteria/ Sub-Criteria, Returnable Documentation and Schedules, Method of Evaluation, and Prompts for Judgement are as specified in **Part T1.2.3: Additional Conditions of Tender**.

Preference Point System

The procedure for the evaluation of responsive tenders is **PRICE AND PREFERENCE**, in accordance with the Employer's **SCM Policy: Section 52: Preferential Procurement**.

The **80/20** preference points system, for requirements with a Rand value of up to R50,000,000 (all applicable taxes included), will be applied. The Formula used to calculate the **Price Points (max. 80)** will be according to that specified below.

Price Points

The financial offer will be reduced to a comparative basis using the **Tender Assessment Schedule**.

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

80/20 Procurement System

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

Where:

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

Preference Points

Reference is to be made to **Returnable Form: MBD 6.1: Preference Points Claim**.

Broad-Based Black Economic Empowerment (SCM Policy Section 52.5)

The provisions of the SCM Policy: **Section 52.5: Broad-Based Black Economic Empowerment** shall apply. Reference is to be made to **Returnable Form: MBD 6.1: Preference Points Claim**.

A maximum of either 20 or 10 tender evaluation Preference Points will be derived from points claimed for their B-BBEE Status Level of Contributor, as indicated on their B-BBEE Status Level Verification Certificates, on **Returnable Form: T2.2.6: MBD 6.1**, in accordance with the table below.

The Basket of Preference Goals (SCM Policy Section 52.7)

The provisions of the SCM Policy: **Section 52.7: The Basket of Preference Goals** shall apply. Reference is to be made to **Returnable Form: MBD 6.1: Preference Points Claim**.

The Preference Points (either 20 or 10) will be derived from points claimed for **Specific Goals** as indicated in the table(s) below, according to the specified **Goal/ Category Weightings**.

- **Ownership Goal**

Goal Weighting: **50%**

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**.

Ownership Categories	Criteria	80/20
Race: Black (W1)	Equals 0%	0
	Between 0% and 51%	3
	Greater or equal to 51% and less than 100%	6
	Equals 100%	8
Gender: Female (W2)	Equals 0%	0
	Between 0% and 51%	0.5
	Greater or equal to 51% and less than 100%	1
	Equals 100%	2
Disabilities (W3)	Equals 0%	0
	Between 0% and 51%	0
	Greater or equal to 51% and less than 100%	0
	Equals 100%	0
Maximum Ownership Goal Points:		20
Proof of claim as declared on MBD 6.1 (1 or more of the following will be used in verifying the Tenderer's status) <ul style="list-style-type: none"> • 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: **25%**

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.

Location	80/20
Not in South Africa	0
South Africa	5
Kwa Zulu Natal	10
eThekweni Municipality	20
Maximum Goal Points:	20
Proof of claim as declared on MBD 6.1 (1 or more of the following will be used in verifying the Tenderer's status) <ul style="list-style-type: none"> • CSD report 	

- **RDP Goal: Creation of new jobs to address black youth unemployment**

Goal Weighting: **25%**

The tendering entity's **Commitment to Appointment or Actual Appointment**, in terms of the categories below, is to be used in the determination of the Tenderer's claim for **Preference Points** for this Specific Goal.

Number of jobs created	80/20
0 – 49	5
50 – 100	10
Over 100	20
Maximum Goal Points:	20
Proof of claim as declared on MBD 6.1 (1 or more of the following will be used in verifying the Tenderer's status) <ul style="list-style-type: none"> • Commitment letter to appoint youth from local ward (for a year or more) • Appointment letters signed by local councillor or chief (for a year or more) • Consider other evidence etc Copies of IDs and proof of address in Ethekeeni 	

C.3.13 Acceptance of tender offer:

In addition to the requirements of **Tender Data: C.3.13** of the **Standard Conditions of Tender**, tender offers will only be accepted if:

- The Tenderer's municipal rates and taxes are not in arrears, or they have made arrangements to meet outstanding municipal fee obligations.
- The Tenderer's tax compliance status has been verified, or they have made arrangements to meet outstanding tax obligations.
- If applicable, the Tenderer is **registered**, and **"Active"**, with the **Construction Industry Development Board** in an appropriate contractor grading designation.

- (d) The Tenderer or any of its directors/ shareholders are **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.
- (e) The Tenderer has not:
 - i) Abused the Employer's Supply Chain Management System; or
 - ii) Failed to perform on any previous contract and has been given a written notice to this effect.
- (f) 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 the **Standard Conditions of Tender: C.1.1.3** of, the municipality reserves the right to award or not award the tender based on the municipalities available budget.

C.3.15 Complete adjudicator's contract:

Refer to the **Conditions of Contract** and the **Contract Data**.

C.3.17 Copies of contract:

The number of paper copies of the signed contract to be provided by the Employer is **ONE (1)**. Tenderers are referred to the requirements as stated in the **Tender Data: C.2.13**.

T1.2.3 ADDITIONAL CONDITIONS OF TENDER**T1.2.3.1 Complaints and Objections (Appeals)**

Reference is to be made to Clause 49 of the eThekwini Supply Chain Management Policy.

In terms of Section 49 of the Ethekwini SCM Policy any person aggrieved by decisions taken in the implementation of the SCM System may lodge, within 14 days of notification thereof, a written objection against the decision. The objection with regard to the decision is to be directed to:

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

Any objection will only be processed upon receipt of a non-refundable administration fee of **R1,814.00** (including VAT), as stipulated in the Municipality's current SCM Policy. An objection will only be considered upon receipt of proof of payment of this fee which must be paid into the following bank account as a real-time payment:

EThekwini Metropolitan Municipality
Nedbank
Account Number: 110-782-1118
Reference Number: Use the Contract Number

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:

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

T1.2.3.4 Functionality Specification

Functionality Evaluation is applicable to this tender.

The value of W₂ is 100. The Functionality criteria (and sub criteria if applicable) and maximum score in respect of each of the criteria are as follows:

Functionality Criteria / Sub Criteria		Maximum Points Score
Tenderer's Experience		40
Project Organogram and Experience of Key Staff	Contracts Manager	20
	Site agent	20
	Foremen	10
Preliminary Programme		5
Construction Methodology & Quality Control		5
Maximum possible score for Functionality (M_s)		100

The minimum number of evaluation points for Functionality is **60**. Only those Tenderers who achieve the minimum number of Functionality evaluation points (or greater) will be eligible to have their tenders further evaluated.

Functionality shall be scored by not less than three evaluators and the scores of each of the evaluators will be averaged, weighted and then totalled to obtain the final score for Functionality. Each evaluation criteria will be assessed in terms of six indicators and scores allocated according to the following table:

Level 0	Level 1	Level 2	Level 3	Level 4	Level 5
0	20	40	60	80	100

Evaluation criteria will be adjudicated according to submissions made in accordance with the following schedules, which are found in T2.2: Returnable Schedules:

Functionality Criteria	Returnable Schedules
Tenderer's Experience	<ul style="list-style-type: none"> Experience of Tenderer
Project Organogram and Experience of Key Staff	<ul style="list-style-type: none"> Proposed Organisation and Staffing Key Personnel CV's with Experience of Key Personnel
Preliminary Programme	<ul style="list-style-type: none"> Preliminary Programme
Construction Methodology & Quality Control	<ul style="list-style-type: none"> Construction Approach, Methodology, and Quality Control Schedule of Proposed Subcontractors Plant and Equipment

Unless otherwise stated, evaluation criteria will be adjudicated with respect to the contract specific Scope of Work, as specified in C.3. In this regard the following definitions apply to the evaluation criteria prompts for judgement:

- “**successfully completed**” implies a project has been completed on time and to specification;
- “**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;
- “**experience**” implies experience on projects of a similar nature;
- “**accredited degree / diploma**” implies a minimum 3 year qualification within the built environment, from a registered University or University of Technology.

Criterion: Tenderer’s Experience	
Note: Projects of a similar nature that will be considered shall be one, or a combination of, new road construction, road widening/upgrade projects, intersection improvements, gravel to surface road upgrades, Fencing and access road upgrades and major parking areas.	
Level 0	No information provided; OR submission of no substance / irrelevant information provided
Level 1	To have successfully completed <u>1 project</u> of a similar nature within the past 5 years.
Level 2	To have successfully completed <u>2 to 3 projects</u> of a similar nature within the past 5 years.
Level 3	To have successfully completed <u>4 to 7 projects</u> of a similar nature within the past 5 years.
Level 4	To have successfully completed <u>8 to 10 projects</u> of a similar nature within the past 5 years.
Level 5	To have successfully completed <u>10+ projects</u> of a similar nature within the past 5 years.

Criterion: Project Organogram and Experience of Key Staff			
	CONTRACTS MANAGER	SITE AGENT	FOREMAN
Level 0	No information provided OR submission of no substance / irrelevant information. OR less than 1 year’s relevant experience on projects of a similar nature.	No information provided OR submission of no substance / irrelevant information. OR less than 1 year’s relevant experience on projects of a similar nature.	No information provided OR submission of no substance / irrelevant information OR less than 2 year’s relevant experience on projects of a similar nature.
Level 1	Relevant accredited diploma / degree and minimum 1 year’s experience.	Relevant accredited diploma / degree and minimum 1 year’s experience.	Minimum 2 year’s experience.
Level 2	Relevant accredited diploma / degree and minimum 2 year’s experience.	Relevant accredited diploma / degree and minimum 2 year’s experience.	Minimum 3 year’s experience.
Level 3	Relevant accredited diploma / degree and minimum 4 year’s experience.	Relevant accredited diploma / degree and minimum 4 year’s experience.	Minimum 5 year’s experience.
Level 4	Relevant accredited diploma / degree and minimum 7 year’s experience.	Relevant accredited diploma / degree and minimum 7 year’s experience.	Minimum 8 year’s experience.
Level 5	Relevant accredited diploma / degree and minimum 9 year’s experience.	Relevant accredited diploma / degree and minimum 9 year’s experience.	Minimum 10 year’s experience.

Criterion: Preliminary Programme	
Level 0	No information provided; OR submission of no substance / irrelevant information provided
Level 1	The Tenderer has misunderstood certain aspects of the Scope of Work and does not deal with the critical aspects of the project.
Level 2	The programme does not adequately deal with the critical characteristics of the project or the plan and manner in which risk is to be managed.
Level 3	Programme covers all the applicable individual activities which are in an acceptable sequence, with appropriate durations, and is in accordance with generally accepted construction practice, and is in line with Clause 1.1.1.14 of the Conditions of Contract (time for achieving Practical Completion). Programme must show the critical path
Level 4	In addition to the requirements of level 3, the programme covers all activities, meetings, requirements and is sufficiently flexible to accommodate changes that may be required during execution within project completion time.
Level 5	In addition to the requirements of level 4, the program covers all activities, meetings, requirements and accommodates changes and details ways to improve the overall project outcome within the completion time.

Criterion: Construction Methodology & Quality Control	
Level 0	No information provided; OR submission of no substance / irrelevant information provided
Level 1	The technical approach / methodology, plant and equipment is poor and gives no relevant information in satisfying the projects objectives Quality control statement is poor with no relevant information
Level 2	The technical approach and/or methodology is less than acceptable and unlikely to satisfy project objectives or requirements. Plant and equipment is unlikely to provide adequate protection of the works. Quality control statement is generic.
Level 3	Brief overview of a site specific methodology which encompasses all programmed activities in appropriate order and includes staff, plant and equipment resources, including subcontractors if applicable, a brief description of preparatory work, construction processes including finishing works for each activity. Quality control statements are site specific with statements covering required sampling and testing requirements for the programmed activities.
Level 4	The methodology is specifically tailored to address specific project requirements. The methods and approach to managing risk etc. are specifically tailored to the critical characteristics of the project. The plant and equipment are specifically tailored to the project requirements and are sufficiently adaptable to accommodate changes that may be required during execution Quality control statements are site specific covering required sampling and testing for programmed activities including site specific quality control checklist for programmed activities
Level 5	Besides meeting the "above Level 4" rating, the important issues are approached in an innovative and efficient way, indicating that the Tenderer has excellent knowledge of working in the projects environment and producing the required final product. Plant and equipment proposals and ownership/provision arrangements are most likely to ensure a satisfactory project outcome. Quality control statements are site specific covering required sampling and testing for all programmed activities including site specific quality control checklist for all programmed activities

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 and signed as required.

The Tenderer is required to complete and sign 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

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Technical or Functionality Evaluation

T2.2.16	Experience of Tenderer	52
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 Contract Part: The Tenderer is required to complete following forms:		
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T2.2.1 COMPULSORY ENTERPRISE QUESTIONNAIRE

Ref	Description	Tenderer to Complete	
1.1	Name of enterprise		
1.2	Name of enterprise's representative		
1.3	Email address of representative		
1.4	Contact numbers of representative	Tel:	Cell:
1.5	National Treasury Central Supplier Database Registration number	MAAA	
1.6	VAT registration number, if any:		
1.7	CIDB registration number, if any:		
1.8	Department of Labour: Registration number		
1.9	Department of Labour: Letter of Good Standing Certificate number		

2.0 Particulars of sole proprietors and partners in partnerships (attach separate pages if more than 4 partners)			
	Full Name	Identity No.	Personal income tax No. *
2.1			
2.2			
2.3			

3.0 Particulars of companies and close corporations	
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	MBD 4, MBD 6, MBD 8, and MBD9 issued by National Treasury <u>must be completed for each tender and be included as a tender requirement.</u>
-----	--

Tenderers are to include, at the back of their tender submission, a printout of their SARS "Tax Compliance Status – PIN Issued" certificate.

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 Tenderer's 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 the **Tender Data: C.2.1.1(a) and C.2.7.**

This is to certify that:

(entity name):

of (address):

was represented by the person(s) named below at the Clarification Meeting for Contract **33287-6W** held for all Tenderers, the details of which are stated in the **Tender Data: C.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 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**¹.
- 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

Name of enterprise's representative

3.2 ID Number of enterprise's representative

3.3 Position enterprise's representative occupies in the enterprise

3.4 Company Registration number

3.5 Tax Reference number

3.6 VAT registration number

3.7 The names of all directors / trustees / shareholders / members / 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.

3.8 Are you presently in the service of the state?

Circle Applicable

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:

**T2.2.4 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.		
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?	YES	NO
2.1	If NO, this serves to certify that the bidder has no undisputed commitments for municipal services towards any municipality for more than three months or other service provider in respect of which payment is overdue for more than 30 days.		
2.2	If YES, provide particulars. 		
3.0	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?	YES	NO
3.1	If YES, provide particulars. SEE Returnable Document T2.2.5		
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?	YES	NO
4.1	If YES, provide particulars. 		

If required by 1.1 above, Tenderers are to include, at the back of their tender submission, 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:

T2.2.5 CONTRACTS AWARDED BY ORGANS OF STATE IN THE PAST 5 YEARS

In terms of SCM Policy Section 20(1)(d)(iii), Tenderers are to provide details of Works undertaken for the Government or Public Sector entities/ Organs of State in the past 5 Years, including particulars of any material non-compliance or dispute concerning the execution of such contract.

Material non-compliance or dispute (Yes or No)													
Date Completed													
Value of Work													
Consulting Engineer/Engineers representative													
Employer													
Contract Number													

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.

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

T2.2.6 MBD 6.1: PREFERENCE POINTS CLAIM) (SCMP 52.5: Broad-Based Black Economic Empowerment)

This form serves as a claim form for preference points for **Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution**. **Reference is to be made to the Tender Data: C.3.11.**

1.0 GENERAL CONDITIONS

- 1.1 The relevant **Preference Points System 80/20** applicable to this bid is stated in the **Tender Data: C.3.11**.
- 1.2 Failure on the part of a bidder to fill in and/ or sign this form, and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System (SANAS), or a Registered Auditor approved by the Independent Regulatory Board of Auditors (IRBA), or sworn affidavits in the case of Exempted Micro Enterprises or Qualifying Small Enterprises, together with the bid, will be interpreted to mean that preference points for **B-BBEE Status Level Of Contribution** are not claimed.
- 1.3 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2.0 ADJUDICATION USING A POINT SYSTEM

- 2.1 The bidder obtaining the highest number of total points will be recommended for the award of the contract.
- 2.2 Preference points shall be calculated after prices have been brought to a comparative basis taking into account all factors of non-firm prices and all unconditional discounts.
- 2.3 Points scored will be rounded off to the nearest 2 decimal places.
- 2.4 In the event that two or more bids have scored equal total points, the successful bid must be the one scoring the highest number of preference points for B-BBEE.
- 2.5 However, when functionality is part of the evaluation process and two or more bids have scored equal points including equal preference points for B-BBEE, the successful bid must be the one scoring the highest score for functionality.
- 2.6 Should two or more bids be equal in all respects the award shall be decided by the drawing of lots.

3.0 POINTS AWARDED FOR PRICE

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

80/20 Procurement System

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

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

T2.2.6 MBD 6.1: PREFERENCE POINTS CLAIM

(SCMP 52.7: Basket of Preference Goals)

This form serves as a claim form for preference points according to **The Basket of Preference Goals**. **Reference is to be made to the Tender Data: C.3.11.**

1.0 GENERAL CONDITIONS

- 1.1 The relevant **Preference Points System (80/20)** applicable to this bid is stated in the **Tender Data: C.3.11**.
- 1.2 Failure on the part of the Tenderer to submit the required proof or documentation, in terms of the requirements in the Tender Data for claiming specific goal preference points, will be interpreted that **Preference Points for Specific Goals** are not claimed.
- 1.3 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2.0 ADJUDICATION USING A POINT SYSTEM

- 2.1 The bidder obtaining the highest number of total points will be recommended for the award of the contract.
- 2.2 Preference points shall be calculated after prices have been brought to a comparative basis taking into account all factors of non-firm prices and all unconditional discounts.
- 2.3 Points scored will be rounded off to the nearest 2 decimal places.
- 2.4 In the event that two or more bids have scored equal total points, the successful bid must be the one scoring the highest number of preference points for B-BBEE.
- 2.5 However, when functionality is part of the evaluation process and two or more bids have scored equal points including equal preference points for B-BBEE, the successful bid must be the one scoring the highest score for functionality.
- 2.6 Should two or more bids be equal in all respects the award shall be decided by the drawing of lots.

3.0 POINTS AWARDED FOR PRICE

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

80/20 Procurement System

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

Where:

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

4.0 POINTS ALLOCATED FOR THE BASKET OF PREFERENCE GOALS

4.1 Preference points may be claimed for the **Specific Goals** stated in the **Tender Data: C.3.11**.

For the purposes of this tender, the Tenderer may claim points based on the goal(s) stated in the table below, as supported by proof/ documentation specified in the Tender Data.

80/20 Preference Points System The Specific Goals to be allocated points in terms of this tender:	Maximum Number of points ALLOCATED	Tenderer's Number of points CLAIMED
Ownership Goal: Race (black)	8	
Ownership Goal: Gender (female)	2	
Ownership Goal: Disabilities	0	
RDP Goal: The promotion of South African owned enterprises.	5	
RDP Goal: The Creation of new jobs to address black youth unemployment	5	
Total CLAIMED Points (maximum 20)	20	

5.0 REMIDIES FOR THE SUBMISSION OF FALSE INFORMATION

5.1 The remedies for the submission of false information regarding claims for specific goals are stated in the **SCM Policy: Section 52.9**.

Tenderers are to include, at the back of their tender submission, the required proof/ documentation in support of their Preference Goal claims.

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:

T2.2.8 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) and can be accessed by clicking on its link at the bottom of the home page.

- 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) by clicking on its link at the bottom of the home page.

- 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?

- 4.3.1 If YES, provide particulars.

.....

.....

Circle Applicable	
YES	NO

YES	NO
-----	----

YES	NO
-----	----

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

YES

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**

- ¹ Includes price quotations, advertised competitive bids, limited bids and proposals.
- ² Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.
- ³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

- 1.0 This Municipal Bidding Document (MBD) must form part of all **bids**¹ 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**).² 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:
- take all reasonable steps to prevent such abuse;
 - 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
 - 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 below **Certificate of Independent Bid Determination** must be completed and submitted with the bid.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid for: Contract **33287-6W**
Wyebank Garden Waste Site Closure, Phase 1

in response to the invitation for the bid made by: **ETHEKWINI MUNICIPALITY**

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

I certify, on behalf of:

that:

(continued on next page)

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 consortium³ 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 DECLARATION OF MUNICIPAL FEES

Reference is to be made to the **Tender Data: C.2.23 and C.3.13(a)**.

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												

- If applicable, a copy of a recent (within the past 3 months) Metro Bill is to be provided.

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.
- Where a Tenderer's place of business or business interests are carried out from premises as part of any other 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, copies of the above-mentioned account's, agreements signed with the municipality, lease agreements, or official letters.

*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:

T2.2.11 CONTRACTOR'S HEALTH AND SAFETY DECLARATION

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

In terms of Clause 5(1)(h) of the OHSA 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 OHSA 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 OHSA 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)**:

(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:

Circle Applicable	
Yes	No
Yes	No
Yes	No

- 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:

T2.2.12 CSD REGISTRATION REPORT

Reference is to be made to **Tender Data: C.2.1.1(b) and C.2.23.**

The **Tender Data: C.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.

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

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

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

Note: the printout will contain more than one page.

CENTRAL SUPPLIER DATABASE FOR GOVERNMENT

Report Date:

Report Ran By:

CSD REGISTRATION REPORT

SUPPLIER IDENTIFICATION

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, a printout of their 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: _____

T2.2.13 CIDB REGISTRATION AND STATUS

Reference is to be made to the **Tender Data: C.2.1.2, C.2.23, and C.3.13(c).**

The **Tender Data: C.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 the **Tender Data: C.2.1.2.**

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

CIDB Registrations can be obtained from the CIDB website at:

<https://portal.cidb.org.za/RegisterOfContractors/>

The following is an example of the printout obtained from the above website using the provided “Print” button. Note: the printout may contain more than one page.

Tenderers are to include, at the back of their tender submission, a printout of their CIDB Registration and Status.

*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 JOINT VENTURES AGREEMENTS

If this tender submission is to be made by an established Joint Venture, the Joint Venture Agreements and Power of Attorney Agreements are to be attached here.

Should the Joint Venture, at the time of submission, not yet be formalised, this form is to be completed in full and signed by all parties to the proposed Joint Venture.

The Lead Partner of the Joint Venture is to sign the **Form of Offer** in Section **C1.1.1**.

INTENT TO FORM A JOINT VENTURE

Should our submission for CONTRACT: **33287-6W** be successful, a Joint Venture will be established by the parties as listed below, as an unincorporated association, with the purposes of securing and executing the Contract, for the benefit of the Members.

Proposed Joint Venture

Joint Venture Title (name):

Represented by (name):

Tel:

Lead Partner/ Member 1

Entity Name:

Ownership Interest in JV %:

CSD Registration: MAAA

CIDB #:

Represented by (name):

Signature:

Partner/ Member 2

Entity Name:

Ownership Interest in JV %:

CSD Registration: MAAA

CIDB #:

Represented by (name):

Signature:

Partner/ Member 3

Entity Name:

Ownership Interest in JV %:

CSD Registration: MAAA

CIDB #:

Represented by (name):

Signature:

Note: All requirements for Joint Ventures, as stated elsewhere in this procurement document, must be complied with in full.

T2.2.15 RECORD OF ADDENDA TO TENDER DOCUMENTS

Reference is to be made to the **Tender Data: C.2.6.**

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.

ADD.No	DATE	TITLE OR DETAILS
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: _____

T2.2.16 EXPERIENCE OF TENDERER

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts (if applicable).

The following is a statement of works of similar nature (in relation to the scope of works) recently (within the past 5 years) executed by myself / ourselves.

Tenderers are to submit copies of signed completion certificates for all projects submitted.

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

Attach additional pages if more space is required

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:

T2.2.17 PROPOSED ORGANISATION and STAFFING

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts (if applicable).

The Tenderer should propose the structure and composition of their team i.e. the main disciplines involved, the key staff member / expert responsible for each discipline, and the proposed technical and support staff and site staff.

The roles and responsibilities of each key staff member / expert should be set out as job descriptions. In the case of an association / joint venture / consortium, it should, indicate how the duties and responsibilities are to be shared.

The Tenderer must attach their organization and staffing proposals to this page. (this is to include both the on-site and off-site staffing resources used for this project)

In addition to any lists, this information should also be shown in an organogram format (flow chart) clearly indicating the staff hierarchy and reporting lines, again for on- and off-site resources.

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: _____

T2.2.18 KEY PERSONNEL

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts (if applicable).

The Tenderer shall list below the personnel which he intends to utilize on the Works, including key personnel (Contract's Manager, Site Agent, and Foremen) which may have to be brought in from outside if not available locally.

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

Note: CVs of key personnel may be requested during the contract period.

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:

T2.2.19 EXPERIENCE OF KEY PERSONNEL

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts (if applicable).

The experience of assigned staff member in relation to the Scope of Work will be evaluated from three different points of view:

- 1) General experience (total duration of professional activity), level of education and training and positions held of each discipline specific team leader.
- 2) The education, training, skills and experience of the Assigned Staff in the specific sector, field, subject, etc which is directly linked to the scope of work.
- 3) The key staff members' / experts' knowledge of issues which the Tenderer considers pertinent to the project e.g. local conditions, affected communities, legislation, techniques etc.

A CV of the contract manager, site agent(s) and general foreman of not more than 2 pages should be attached to this schedule:

Each CV should be structured under the following headings:

- a) Personal particulars
 - name
 - date and place of birth
 - place (s) of tertiary education and dates associated therewith
 - professional awards
- b) Qualifications (degrees, diplomas, grades of membership of professional societies and professional registrations)
- c) Skills
- d) Name of current employer and position in enterprise
- e) Overview of post-graduate / diploma experience (year, organization and position)
- f) Outline of recent assignments / experience that has a bearing on the scope of work

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:

T2.2.20 PRELIMINARY PROGRAMME

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts (if applicable).

The Tenderer shall detail below or attach a preliminary programme reflecting the proposed sequence and tempo of execution of the various activities comprising the work for this Contract. The programme shall be in accordance with the information supplied in the Contract, requirements of the Project Specifications and with all other aspects of his Tender.

[illegible]

Note: The programme must be based on the completion time as specified in the Contract Data.

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:

T2.2.21 CONSTRUCTION APPROACH, METHODOLOGY, AND QUALITY CONTROL

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts (if applicable).

Construction Approach and Methodology

The construction approach and methodology must respond to the Scope of Work and outline the proposed approach to undertake the work showing a detailed programme including health and safety aspects, the use of plant and resources for this Project.

Quality Control

The quality control statement must discuss what tests and control measures are to be employed on site to attain the specified results and is to cover the program associated activities.

The Tenderer must attach their Construction Methodology and Quality Control information to this page.

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:**

T2.2.22 SCHEDULE OF PROPOSED SUBCONTRACTORS

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts (if applicable).

The following firms have been identified as possible subcontractors for work in this contract.

NAMES AND ADDRESSES OF PROPOSED SUBCONTRACTORS	NATURE AND EXTENT OF WORK TO BE SUBCONTRACTED	PREVIOUS EXPERIENCE WITH SUBCONTRACTOR

Attach additional pages if more space is required

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: _____

T2.2.23 PLANT and EQUIPMENT

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts (if applicable).

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

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

DESCRIPTION (type, size, capacity etc)	QUANTITY	YEAR OF MANUFACTURE

Attach additional pages if more space is required

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

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

Attach additional pages if more space is required

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

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:

T2.2.24 CONTRACTOR'S HEALTH AND SAFETY PLAN

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts (if applicable).

At tender stage only a brief overview (**to be attached to this page**) of the Tenderers perception on the safety requirements for this contract will be adequate.

Only the successful Tenderer **shall submit separately** the Contractor's Health and Safety Plan as required in terms of Regulation 7 of the Occupational Health and Safety Act 1993 Construction Regulations 2014.

The detailed safety plan will take into consideration the site specific risks as mentioned under **C.3: Project Specification**. A generic plan will not be acceptable.

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:

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: **33287-6W**

Contract Title: **Wyebank Garden Waste Site Closure, Phase 1**

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 fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

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

Signature (*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 3rd 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).

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 **20 Weeks**. 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 excluded from the above time for achieving Practical Completion.
- 1.1.1.15 The Employer is the eThekweni Municipality as represented by:
Deputy Head: **Plant and Engineering**
- 1.2.1.2 The address of the Employer is:
Physical: **17 Electron Road, Springfield, Durban**
Postal: **PO Box 1038, Durban 4000**
Telephone: **031 311 8804**
Fax:
E-Mail: **Logan.Moodley2@durban.gov.za**
- 1.1.1.16 The **name of the Employer's Agent** is
- 1.2.1.2 The address of the Employer' Agent is: **Envitech Solutions (Pty) Ltd**
Physical: **Unit B1 Meyrickton Park, 2 Meyrickton Place, Gillitts, KZN**
Postal: **Unit B1 Meyrickton Park, 2 Meyrickton Place, Gillitts, 3610**
Telephone: **031 023 0980**
Fax:
E-Mail: **Info@envitech.co.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 2.5% 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 Division (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 Unstitute 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 (if applicable)
- If required to be registered, in terms of the Occupational Injuries and Diseases Act (130 of 1993 as amended), the Contractor 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. Should the Contractor's Letter of Good Standing be expired, but an application for renewal has been made, the Contractor is to submit the expired Letter of Good Standing AND proof of an application for renewal.

5.3.2 The **time to submit the documentation** required before commencement with Works is **14 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."

5.4.2 The access and possession of Site shall not be exclusive to the Contractor but as set out in the Site Information.

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 1000.00** (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:

Value of Contract (incl. VAT)	Performance Guarantee Required
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 **2024 = 100**.

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

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 **RUBIS Asphalt South Africa 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: **State 0%**

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 2,000,000.00**.

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 1,000,000.00**.
- Maximum first excess: **R 10,000.00**

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 1,000,000.00.**
- Consequential loss to be covered by policy: **Yes**
- Liability section of policy to be extended to cover blasting: **R 1,000,000.00.**
- Maximum excess per claim or series of claims arising out of any one occurrence: **R10,000.00.**

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: **R1,000,000.00.**
- Maximum first excess: **R 10,000.00.**

Insurance of Works

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

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:

Contract Price	First Loss
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.

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:

.....

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

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

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) 71**. 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 **10%** of the contract value (excluding PC Sum items and Fixed Cost allowances) to be subcontracted to contractors who are **>51%** owned by Black People. 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

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

- Category of Employment

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

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.

C1.2.3.5 PERFORMANCE MONITORING OF SERVICE PROVIDERS

[For contract awards over R10m] The Contractor shall be subjected to "Performance Monitoring" assessments in terms of the applicable Section (S.53) of the Employer's Supply Chain Management Policy.

Key Performance Indicators (KPIs) are specified in the C3: Scope of Works, or will be discussed and agreed with the Contractor before commencement of the contract.

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.

C1.2.3.7 CIDB B.U.I.L.D. PROGRAMME**a) CIDB Skills Standard**

It will be a condition of contract that the Contractor shall, in the performance of the contract, achieve the **Contract Skills Development Goal (CSDG)** established in the below referenced standard:

- CIDB Standard for Developing Skills Through Infrastructure Contracts, published in Gazette Notice No. 48491 of 28 April 2023.

b) CIDB Indirect Targeting Standard

It will be a condition of contract that the Contractor shall, in the performance of the contract, achieve the **Contract Participation Goal (CPG)** relating to the engagement of targeted enterprises as established in the below referenced standard:

- CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, published in Gazette Notice No. 36190 of 25 February 2013.

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 C.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 25 pages. The pages are numbered `BoQ 88 to BoQ 113`

SECTION 1 : PRELIMINARY & GENERAL

ITEM No	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SANS 1200A	GENERAL				
	8.3	SCHEDULED FIXED CHARGE AND VALUE RELATED ITEMS				
1.1	8.3.1	Contractual requirements	Sum	1		
1.2	8.3.2	Establishment of facilities on the site.				
	8.3.2.1	Facilities for Engineer				
1.3		c) Nameboards (1 N°)	Sum	1		
	8.3.2.2	Facilities for Contractor:				
1.4		a) Offices and storage sheds	Sum	1		
1.5		e) Ablution and latrine facilities	Sum	1		
1.6		k) Items (b) - (d) and (f) - (j) as listed in the Standardised Specification	Sum	1		
1.7	8.3.3	Other fixed charge obligations.	Sum	1		
1.8	8.3.4	Removal of site establishment.	Sum	1		
	8.4	SCHEDULED TIME RELATED ITEMS				
1.9	8.4.1	Contractual requirements	Month	5		
	8.4.2	Operation and maintenance of facilities on site for the duration of construction, except where otherwise stated:	Month	5		
	8.4.2.2	Facilities for Contractor:				
1.10		a) Offices and storage sheds	Month	5		
1.11		e) Ablutions and latrine facilities	Month	5		
1.12		k) Items (b) - (d) and (f) - (j) as listed in the Standardised Specification	Month	5		
1.13	8.4.3	Supervision for duration of construction	Month	5		
1.14	8.4.4	Company and head office overhead costs for the duration of the Contract.	Month	5		
1.15	8.4.5	Other time related obligations.	Month	5		
	8.6	PRIME COST ITEMS				
1.16		a) Acceptance control testing	PC Sum	1	R 50,000.00	R 50,000.00
1.17	8.6	b) Contractor's overheads, charges and profit in items 1.16 above (state percent and extend as an amount)	%			
	8.7	DAYWORK				
		Personnel:				
1.18		a) Supervision	hr	18		
1.19		b) Labourer - skilled	hr	18		
1.20		c) Labourer - unskilled	hr	40		
1.21		d) Gang leader - induna	hr	40		
1.23		f) Surveyor with transport, instruments and incidental labour	hr	60		
		Plant:				
1.24		a) Lowbed transportation of plant of mass exceeding 5 tons	t/km	50		
1.25		b) Front end loader - rubber tyred 100kW, 10 ton mass	hr	40		
1.27		d) Tractor loader backhoe (TLB) 55 kW	hr	40		
1.28		e) Vibratory roller, self propelled 80kW 9 ton mass	hr	40		
1.29		f) Excavator (20 ton mass)	hr	16		
1.30		g) Tip trucks 10m3 capacity	hr	40		
1.31		h) Dozer - 123 Kw	hr	40		
	8.8	TEMPORARY WORKS				
1.32	8.8.2	Accommodation of traffic within and around the Site	Sum	1.00		
	8.8.4	Existing Services:				
1.33		c) Excavation by hand in soft material to expose any service if required by the Engineer	m³	50		
1.34		As built drawings	P/Sum	1	R 35,000.00	R 35,000.00
1.35	PS 11	Allow for security for project duration for protection of the site and works	P/Sum	1	R 100,000.00	R 100,000.00
1.36	C1.2.3.1	Employment of a Community Liaison Officer	P/Sum	1	R 100,000.00	R 100,000.00
1.37		Contractor's overheads, charges and profit on item 1.32, 1.34 and item 1.35 above	%			
TOTAL CARRIED FORWARD						

SECTION 2 : DRAINAGE AND ASSOCIATED WORKS

ITEM No	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.1	SANS 1200C	SITE CLEARANCE				
	PSC 8.2.1	Clear and grub				
2.1.1		i) 10m width on fenceline	m ²	13,660		
2.1.2		ii) toe drain	m ²	780		
2.2	SANS 1200DB	EARTHWORKS (PIPE TRENCHES)				
	PSDB 8.3.2	Excavation:				
		a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material:				
2.2.1		1) Open drains, irrespective of depth	m ³	260		
		2) Manholes, catchpits, headwalls, etc.				
2.2.2		i) At the stormwater discharge points (Headwall and renomatrasses)	m ³	7		
2.2.3		3) Box cut 300mm on average for paved area	m ²	255		
2.3	SANS 1200DK	GABIONS AND PITCHING				
	8.2.1	Surface preparation for bedding of gabions				
2.3.1		a) Cavities fill with approved excavated material or rock (provisional)	m ²	6		
	8.2.2	Gabions				
2.3.2		a) Reno mattress 0,17m thick, galvanised wire	m ³	6		
	PSDK 8.2.4	Geotextile				
		a) Non woven needle punched geotextile				
2.3.3		i) To layer works in the wastebody (min. 200g/m ² and min. 12.6kN/m tensile strength in the weaker direction)	m ²	300		
2.3.4		b) Geocells (for stormwater drains) - new item	m ²	300		
2.3.5		c) Bi-axial Geogrid as directed where paved area founding shown to be on waste	m ²	100		
2.4	SANS 1200DM	EARTHWORKS (ROADS, SUBGRADE)				
	PSDM 8.3.5	Selected Layers from Commercial Sources				
2.4.1		a) G7 quality material compacted to 95% mod AASHTO density for paved area	m ³	850		
2.4.2		b) G6 quality material compacted to 98% mod AASHTO density for for paved area	m ³	850		
2.4.3		c) G6 quality material compacted to 98% mod AASHTO density for weighbridge and buildings (Fill Areas)	m ³	24		
2.4.4	GRI-GCL3	d) 3,7g/m2 GCL layer under paved area as directed by the Engineer	m ²	500		
2.5	SANS 1200 G	CONCRETE (STRUCTURAL)				
		Formwork				
2.5.1	8.2.5	Narrow widths	m	60		
2.5.2	8.4.3	Strenght Concrete, Grade 10/19				
		Trapezoidal stormwater concrete drains	m ³	189		
2.5.3	8.4.4	Unformed Surfaces Finishes				
		d) Course broom finish in all trapezoidal stormwater concrete drains	m ²	2,100		
		e) Course broom for edge beam at ends of drain and drain outlet	m ²	15		
2.6	SANS1200 MJ	SEGMENTED PAVING				
	8.2.2. PSMJ	<u>Laving of interlocking paving blocks complete with bedding sand</u>				
2.6.1		Supply and laying of 80mm heavy duty baked clay interlocking paving G-blocks type SA for entrance and parking - complete with 20mm bedding sand	m ²	850		
2.6.2		barrier kerb	m	400		
2.6.3		concrete edge beam 300 x 100mm	m	60		
TOTAL SECTION 2 : CARRIED FORWARD TO SUMMARY						

SECTION 3 : FENCING

ITEM No.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.1	SANS 1200 C	CLEARING				
	8.2.1	Clear and Grub				
3.1.1		Clear Site incl. remove trees up to 1m girth on site to approved temporary stockpile on Site	m ²	1,650		
3.1.2	8.2.5	Remove and dispose of existing fences on boundary	km	0.5		
3.2	PS19	FENCING				
3.2.1		Supply and intsaill 2400mm concrete palisade fence around perimeter of facility complete with corner posts, strain posts, stays and concrete founding complete, as per details on drawing 809-2023-02-002 and 003.	m	1,616		
3.2.2		Close openings under fence at drain and stream crossings, with steel, painted palisades at direction of the Engineer on site	Prov Sum	1	5,000.00	R 5,000.00
3.3	PS22	ACCESS GATES				
3.3.1		Supply and install new non-motorized swing gate (2 no.leaves) as per drawing 809-2022-003, including chain, lock, stand posts and guide posts complete. Heavy duty 4.5m wide	Sum	1		
3.3.2		Refurbish existing entance sliding gate by rust-coating and painting in black enamel paint and re-aligning base rail to run horizontally freely OR Supply and install new rolling gate to match existing	Prov Sum	1	7,000.00	R 7,000.00
TOTAL CARRIED TO SUMMARY						

SECTION 4: ABLUTION/OFFICE

ITEM NO.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4.0		PRELIMINARIES BUILDING AGREEMENT AND PRELIMINARIES The JBCC Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement amended as hereinafter described The JBCC Principal Building Agreement contract data form an integral part of this agreement The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities amended as hereinafter described The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable" Where standard clauses or alternatives are not entirely applicable to this agreement such amendments modifications corrections or supplements as will apply are given under each relevant clause heading and such amendments modifications corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents				
4.1		EXCAVATION FILLING ETC OTHER THAN BULK				
4.1.1		EXCAVATION ETC				
		Excavation in earth or compacted filling not exceeding 2m deep				
4.1.1.1		Trenches	m ³	23		
4.1.1.2		Holes	m ³	Rate Only		
4.1.1.4		Extra over trench and hole excavations in earth for excavation in				
4.1.1.5		Soft rock	m ³	Rate Only		
4.1.1.6		Hard rock	m ³	Rate Only		
		Extra over all excavations for carting away				
		Risk of collapse of excavations				
4.1.1.8		Sides of trench and hole excavations not exceeding 15m deep	m ²	55		
		Keeping excavations free of water				
4.1.1.9		Keeping excavations free of all water other than subterranean water	Item	1		
4.1.2		BACKFILLING				
		Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density				
4.1.2.1		Backfilling to trenches holes etc	m ³	9		
		Earth filling of G5 material supplied by the contractor compacted in 150mm layers to 98% Mod AASHTO to density				
		Earth filling of G7 material supplied by the contractor compacted in 150mm layers to 98% Mod AASHTO to density				
4.1.2.3		Under floors steps paving's etc	m ³	5		
		Coarse river sand filling supplied by the contractor				
		Compaction of surfaces				
4.1.2.5		Compaction of natural or excavated ground surface under floors etc including scarifying for a depth of 150mm breaking down oversize material adding suitable material where necessary and compacting to 93% Mod AASHTO density	m ²	47		
		Prescribed density tests on filling				
4.1.2.6		Modified AASHTO Density test	No	2		
4.1.3		SOIL POISONING				
		Soil insecticide under a 10 year guarantee by a firm of specialist				
4.1.3.1		Under floors etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m ²	47		
4.1.3.2		To bottoms and sides of trenches etc	m ²	43		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				TOTAL BROUGHT FORWARD		
4.2		CONCRETE FORMWORK AND REINFORCEMENT				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill,				
		SUPPLEMENTARY PREAMBLES				
		Cost of tests				
		The costs of making storing and testing of concrete test cubes/slump tests as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose for testing costs and for submitting reports on the tests to the Engineer. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the Engineer. (Test cubes are measured separately).				
4.2.1		UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
		15MPa/19mm Concrete in:				
4.2.1.1		Surface blinding under footings and bases	m ³	2		
4.2.2		REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
		30MPa/19mm concrete in:				
4.2.2.1		Strip footings	m ³	11		
4.2.2.2		Ground beams	m ³	Rate Only		
4.2.3		REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES (PROVISIONAL)				
		30MPa/19mm concrete				
4.2.3.1		Column Bases	m ³	1		
4.2.4		REINFORCED CONCRETE				
		30MPa/19mm concrete				
4.2.4.1		Surface beds cast in panels on waterproofing	m ³	5		
4.2.4.2		Surface beds cast in panels on waterproofing- Apron Slab	m ³	3		
4.2.5		TEST CUBES (PROVISIONAL)				
4.2.5.1		Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	3		
4.2.6		CONCRETE SUNDRIES				
		Finishing top surfaces of concrete smooth with a steel trowel				
4.2.6.1		Surface beds slabs etc	m ²	47		
4.2.6.1		Surface beds slabs - Apron slab	m ²	29		
4.2.7		MOVEMENT JOINTS ETC				
		Saw cut joints				
4.2.7.1		5 x 10mm Saw cuts in top of concrete	m	5		
		Horizontal construction joints through concrete including thick cement slurry to one face				
4.2.7.2		Surface beds not exceeding 300mm thick	m	0		
		Isolation joints through concrete including thick cement slurry to one face				
4.2.7.3		Surface beds not exceeding 300mm thick	m	0		
4.2.8		ROUGH FORMWORK (DEGREE OF ACCURACY II)				
		Rough formwork to sides				
4.2.8.1		Apron slab <300mm	m	42		
4.2.9		REINFORCEMENT (PROVISIONAL)				
		Mild steel reinforcement to structural concrete work				
4.2.9.1		In Varying diameters	t	0.32		
		High tensile steel reinforcement to structural concrete work				
		Fabric reinforcement				
4.2.9.3		Mesh Ref 395 fabric reinforcement in concrete surface beds etc	m ²	47		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
4.3		MASONRY PREAMBLES The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill, SUPPLEMENTARY PREAMBLES BRICKWORK Unless otherwise described all brickwork shall be built in stretcher bond SIZES IN DESCRIPTIONS Where sizes in descriptions are given in brick units "one brick" shall represent the length and "half brick" the width of a brick POINTING Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed hollow recessed weathered pointing etc WALL TIES Descriptions of solid walls (except if built in English bond) and cavity walls shall be deemed to include metal wall ties complying with SABS 28 and of the butterfly or of the modified PWD type of the required length with each end built at least 75mm deep into brickwork spaced at not more than 1m centres alternately to every third course of brickwork FACINGS Descriptions of "Extra over ordinary brickwork" items shall be deemed to include for the extra cost of the facing bricks specified over common brickwork built in stretcher bond unless otherwise stated and shall include for building in cement mortar made of clean washed sand Bricks shall be ordered timeously to obtain uniformity in size and colour SAMPLE PANEL The contractor shall be required to build a 2m² sample panel of face brick work for approval by the Agent / Representative prior to commencing with the work BRICKWORK				
4.3.1		FOUNDATIONS (PROVISIONAL) Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
4.3.1.1		One brick walls	m²	14		
4.3.1.2		Half brick walls	m²	5		
4.3.2		SUPERSTRUCTURE Brickwork in NFP bricks (7 Mpa nominal compressive strength) in class II mortar				
4.3.2.1		One brick walls,	m²	107		
4.3.2.2		Half brick walls	m²	36		
4.3.2.3		350 x 350mm Piers,	m³	1		
4.3.3		BRICKWORK SUNDRIES Brickwork reinforcement				
4.3.3.1		75mm Wide reinforcement built in horizontally	m	100		
4.3.3.2		150mm Wide reinforcement built in horizontally	m	295		
		Concrete prestressed fabricated lintels				
4.3.3.3		110 x 75mm Lintels in lengths not exceeding 3m	m	36		
4.3.3.4		110 x 75mm Lintels in lengths exceeding 3m not exceeding 4m	m	Rate Only		
		Galvanised hoop iron cramps ties etc				
4.3.3.5		30 x 16mm Wall tie 500mm long with one end cast into concrete and other end built into brickwork	No	30		
		Air bricks etc				
4.3.3.6		230 x 160mm Cement air brick	No	4		
4.3.4		FACE BRICKWORK Approved face bricks pointed with recessed horizontal and vertical joints (Allow PC Amount of R 5 500,00 per thousand delivered to site excluding VAT)				
4.3.4.1		Extra over brickwork for face brickwork	m²	90		
4.3.4.3		Extra over brickwork for face brickwork in pier	m²	1		
4.3.4.4		Fair raking cutting	m	Rate Only		
4.3.4.5		Fair splay cutting	m	Rate Only		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
4.3.4.6		Brick-on-edge header course copings sills etc approved face bricks painted with recessed joints on all exposed faces	m	5		
		Cut face brick-on-edge external window sill 180mm wide set sloping and slightly projecting in cement mortar and pointed on top front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends				
		Sample panel				
4.3.4.7		Construct a sample panel 2000mm long x 1500mm high of one brick wall in cement mortar faced and pointed on both sides in stretcher bond and with brick-on-edge coping to top including pointing to top and both sides and with and including necessary excavations for and including 15MPa/38mm mass concrete strip footing in a position as directed by the Representative/Agent and including demolishing and removal after completion of all brickwork	No	1		
4.4		WATERPROOFING				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.				
		SUPPLEMENTARY PREAMBLES				
		Waterproofing				
		Waterproofing of roofs basements etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
4.4.1		DAMP-PROOFING OF WALLS AND FLOORS				
		One layer approved 375 micron embossed black polyethylene damp proof course				
4.4.1.1		In walls	m	57		
		One layer 250 micron green polyethylene waterproof sheeting complying with SABS 952 Type C in widest practicable widths with all joints lapped and sealed with pressure sensitive tape all in strict accordance with the manufacturer's requirements				
4.4.1.2		Under surface beds	m ²	47		
4.5		ROOF COVERINGS ETC				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.				
4.5.1		PROFILED METAL SHEETING AND ACCESSORIES				
		Note The Contractor is to submit a certificate signed by the merchant stating that the galvanised roof covering supplied complies with the required thickness specified				
		06mm Chromadeck finished galvanized metal IBR profile roof sheeting, cladding fastened to timber roof trusses				
4.5.1.1		Roof covering with pitch not exceeding 26 degrees	m ²	80		
4.5.1.2		Side cladding	m ²	Rate Only		
		06mm Colomet finished galvanized metal IBR profile roof sheeting, cladding fastened to structural steel				
4.5.1.3		Ridge capping 462mm girth	m	12		
4.5.1.4		Hip capping 462mm girth	m	Rate Only		
4.5.2		ROOF AND WALL INSULATION				
		Aluminium foil based insulation				
4.5.2.1		4mm Approved (fire retardant grade) white polyethylene coated single sided aluminium foil insulation (code 2906) laid taut over steel purlins complying with SANS 428 and fixed concurrently with roof covering including white PVC coated straining wires at 383mm centres all in accordance with the manufacturer's recommendations.	m ²	47		
4.6		CARPENTRY AND JOINERY				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.				
		SUPPLEMENTARY PREAMBLES				
		FITTINGS GENERAL				
		Where fittings have been measured as complete units i.e. the components of the units have not been separately measured the descriptions of such units shall be deemed to include all components assembling housing notching glueing blocking planting on and screwing with countersunk screws edge strips decorative plastic finish glass ironmongery metalwork paint or varnish finishes etc				
		Unless specifically stated or where no finish is given finishes to all joinery fittings shall be three coats polyurethane clear semi-gloss varnish to all exposed surfaces				
		PARTICLE BOARD				
		Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type				
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
4.6		CARPENTRY AND JOINERY DECORATIVE LAMINATE FINISH Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish CONSTRUCTION Construction of fittings shall be generally of wood screwed and glued with pelfeted heads where visible. All materials used must be of the best quality fabricate approved by the Representative / Agent and all the units to be finished neat and true prior to installation and finishing DOORS TO FITTINGS Sizes of doors and drawers are approximate. Correct sizes must be taken from the fittings concerned				
4.6.1		PREFABRICATED METAL CONNECTOR PLATE TIMBER ROOF TRUSSES a. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads wind loads and to take profiled metal roof covering purlins and fibre cement or gypsum plasterboard ceilings with brandering. Each roof truss shall have all its members accurately cut and close buffed together and rigidly fixed by CSIR approved patented galvanised metal spike connectors fixed on both sides of each intersection by an approved method all in accordance with the manufacturer's instructions. b. Unless otherwise described all rafter feet are to extend approximately 850mm beyond the length of the tie beam with end splayed cut. c. The design manufacture and transportation of the roof trusses bracing etc, shall be under the control of a registered Engineer and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent d. All timber shall be stress-graded pine or glued laminated timber for construction or engineering purposes in accordance with the specifications of SABS Specification No 563 or as defined in SABS Specification No,1245. Stress-grades shall be marked as specified vix V4 M4 V6 M6 etc. e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd, and the National Timber Research Institute CSIR. f. Descriptions of roof trusses shall be deemed to include for design manufacture supply hoisting and fixing in position trimming ends notching ALL TEMPORARY AND PERMANENT BRACING fixing blocks etc. g. All timber must be Grade 7 as per table 3 of SABS 0163-2001 h. All timber screws bolts plate connection or any other type of connector to be in accordance with Annexure 'A' of SABS 0163-2001 i. All workshop drawings must be provided to the engineer for approval before fabrication j. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect drawings and/or the site before design or fabrication commences k. All timber to be treated in accordance with SABS 05 l. All exposed timber to be treated with carbolineum m. All roof timber to be treated with fire retardant paint Complete prefabricated timber roof trusses with a pitch not exceeding 26 degree pitch including all necessary hoisting labour timber for bracing purlins wall plates gangboards certificate and guarantee for design and erection to be supplied by truss manufacturer. All exposed timber sections as well as sections in contact with wet trades to be creosote treated before fixing into position.				
4.6.1.1		Abution block approximately 63m² measured flat	Item	1		
4.6.2		EAVES VERGES ETC High density plain fibre-cement fascias and barge boards				
4.6.2.1		15 x 225mm Fascias boards including galvanised steel H-profile jointing strips	m	40		
4.6.3		DOORS ETC Solid Meranti T&G frame battered and braced external doors with flush veneer inetrnal panel hung on steel frames.				
4.6.3.2		44mm Door 813 x 2032mm high	No	6		
4.6.3.3		44mm Door size 1800 x 2125mm high Double leaf door.	No	Rate Only		
4.6.4		SKIRTINGS Wrought meranti				
4.6.4.1		25 x 110mm Skirtings including 25mm quadrant bead nailed	m	57		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				TOTAL BROUGHT FORWARD		
4.7		CEILING PARTITIONS AND ACCESS FLOORING PREAMBLES The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill, SUPPLEMENTARY PREAMBLES Descriptions Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre plastic or metal plugs at not exceeding 600mm centres and where described as "bolted" the bolts are measured elsewhere Ceilings Unless otherwise described ceilings shall be deemed to be horizontal				
4.7.1		NAILED UP CEILINGS 64mm Gypsum plasterboard with 6 x 50mm fibre cement cover strips over joints finished smooth with gypsum skim plaster				
4.7.1.1		Ceilings including 38 x 38mm sawn softwood branderling at 400mm centres in one direction	m ²	47		
4.7.1.2		Extra over ceiling for 500 x 500mm trap door of 38 x 250mm wrought softwood rebated framing with one cross brander covered with ceiling board and fitted flush in opening including necessary trimmers around	No	1		
4.7.1.3		75mm Coved cornices plugged	m	57		
4.7.2		INSULATION Non-combustible lightweight fibreglass insulation blanket:				
4.7.2.1		100mm Insulation closely fitted between tie beams and laid loose on top of branderling,	m ²	47		
4.8		IRONMONGERY PREAMBLES The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill, SUPPLEMENTARY PREAMBLES FINISHES TO IRONMONGERY Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list : CH				
4.8.1		HINGES BOLTS ETC Samples to be approved by Architect				
4.8.1.1		100mm Brass barrel bolt with keep let into concrete	No	2		
4.8.2		LOCKS Samples to be approved by Architect				
4.8.2.1		4 lever lockset and furniture	No	5		
4.8.2.1		4 lever lockset with rebate (Double door)	No	1		
4.8.2.2		Brass hasp and staple - heavy duty	No	1		
4.8.2.3		Pad lock (PC Amount of R150,00 each)	No	1		
4.8.3		DOOR CLOSERS Samples to be approved by Architect				
4.8.3.1		Delayed action door closer with guide rail	No	Rate Only		
4.8.4		SUNDRIES In accordance with Architect's specifications				
4.8.4.1		38mm Diameter rubber door stop plugged	No	6		
4.8.4.2		Chromium plated hat and coat hook with rubber buffer	No	4		
4.8.5		BATHROOM FITTINGS Samples to be approved by the Architect				
4.8.5.1		303 x 156 x 141mm high Surface mounted stainless steel vandal and theft proof toilet roll holder	No	2		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
4.9		METALWORK PREAMBLES The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill, SUPPLEMENTARY PREAMBLES DESCRIPTIONS Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts washers and mortices in brickwork or concrete. Metalwork described as "holed for bolts" shall be deemed to include the bolts unless otherwise described				
4.9.1		WELDED SCREENS GATES ETC The following in framed and welded galvanised mild steel security grille gates including fixing in position complete Gate frame consisting of 50 x 50 x 2,5mm rectangular tubing sections metre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm (M10) rawl bolts including gate consisting of 50 x 50 x 2,5mm square tubing sections metre 45 degrees at corners before welded with 2 horizontal sections with vertical styles out of 12 x 12mm mild steel solid square bars at equal centres of 100mm complete with 2 x pairs 20mm diameter bullet hinges per gate,				
4.9.1.1		Single Gate Size 900 x 2100mm high overall	No	5		
4.9.1.2		Double Gate Size 2200 x 2300mm high overall	No	Rate Only		
4.9.2		GALVANISED PRESSED STEEL DOOR FRAMES 1,2mm Double rebated frames suitable for half brick walls with two brass butt hinges per door leaf "L"				
4.9.2.1		Frame for door size 813 x 2032mm high	No	4		
4.9.2.1		1,2mm Double rebated frames suitable for one brick walls with two brass butt hinges per door leaf				
4.9.2.1		Frame for door size 813 x 2032mm high	No	1		
4.9.2.2		Frame for door size 1600 x 2032mm high	No	1		
4.9.3		ALUMINIUM WINDOWS DOORS ETC Charcoal powder coated window units complete with subframes ironmongery 4,00mm thick clear float glass with Low E coating sealing etc and fixing to brickwork or concrete				
4.9.3.1		Purpose made window type W1 533 x 654mm high	No	6		
4.9.3.2		Purpose made window type W2 1022 x 949mm high	No	1		
4.10		PLASTERING PREAMBLES The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill, SUPPLEMENTARY PREAMBLES Plaster described as "on brickwork" shall be deemed to include for small portions of plaster on concrete flush with brickwork and prices should include for all the necessary preparatory work				
4.10.1		SCREEDS 1:3 Cement screeds wood floated on concrete				
4.10.1.1		30mm Thick on floors and landings	m ²	47		
4.10.2		INTERNAL PLASTER Cement plaster on brickwork				
4.10.2.1		On walls	m ²	134		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
4.11		TILING PREAMBLES The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill, SUPPLEMENTARY PREAMBLES DESCRIPTIONS Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls columns etc shall be deemed to include 4:1 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 3:1 cement mortar bedding				
4.11.1		WALL TILING 200 x 200 x 5mm Ceramic tiles fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted grout				
4.11.1.1		Splash back	m ²	1		
4.11.1.2		Shower	m ²	9		
4.11.2		FLOOR TILING 600 x 600mm Vinyl floor tiles fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted waterproof jointing compound				
4.11.2.1		On floors and landings	m ²	47		
4.12		PLUMBING AND DRAINAGE (PROVISIONAL) PREAMBLES The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill, SUPPLEMENTARY PREAMBLES DESCRIPTIONS AND PREAMBLES Reference shall be made to other trades for preambles and full descriptions of items not fully described in this trade which shall apply equally to work in this trade unless otherwise described RATES Rates for all piping fittings etc shall include for all fixing in position of fittings cutting of chases in brickwork or concrete excavation of trenches backfilling etc unless otherwise described DIAMETER OF PIPES Diameters stated for pipes traps valves etc are internal diameters except uPVC polyethylene stainless steel and copper pipes for which external diameters are stated REDUCING FITTINGS Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes reducers etc will be entertained uPVC PIPES AND FITTINGS Sewer and drainage pipes and fittings shall be according to SABS 791 jointed and sealed with butyl rubber rings. Soil waste and vent pipes and fittings shall be according to SABS 967 and solvent jointed. Cold water supply pressure pipes and fittings shall be according to SABS 966 and jointed by means of the "Lyng" type jointing system. Pipes shall be fixed and jointed according to SABS 0112				
4.12.1		RAINWATER DISPOSAL Pre-Painted Seamless Aluminium Ogee Gutters Rainwater Pipes And Accessories In Long Lengths				
4.12.1.1		125 x 85mm seamless aluminium gutters	m	40		
4.12.1.3		Extra over gutter for angle	No	8		
4.12.1.4		Extra over gutter for outlet for 100mm pipe including galvanised wire balloon grating	No	4		
4.12.1.5		75x100 mm Diameter aluminium rainwater downpipe fixed to walls as per manufactures instruction	m	12		
4.12.1.6		Extra over rainwater pipe for shoe	No	4		
4.12.2		SANITARY FITTINGS Water Closet				
4.12.2.1		Junior WC suite with close coupled 90 degrees outlet open rim fit for VIP toilets complete with lid and single flap heavy duty plastic seat, Set to be fitted as per manufacturer's instructions, Paraplegic Water Closet	No	2		
4.12.2.2		Paraplegic WC set with semi-close coupled 90degrees outlet open rim washdown pan fit for VIP toilets complete with lid fitments seat and cover plate, Set to be fitted as per manufacturer's instructions,	No	Rate Only		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
4.12.2.3		Wash hand basin 560 x 400mm Vitreous China lavatory wall mounted basin colour white with one tap hole including integrated overflow and chain stay (allow a PC Amount of R 900,00/each excluding VAT)	No	2		
4.12.2.4		Paraplegic wash hand basin 510 x 405mm Hibiscus White vitreous China lavatory wall mounted basin with one tap hole including integrated overflow and chain stay hole bolted to wall with two 10mm bolts (allow a PC Amount of R 950,00/each excluding VAT)	No	Rate Only		
4.12.2.5		Sink 1200 x 535mm Grade 304 (18/10) polished stainless steel double end bowl drop on deb sink with two 343 x 410 x 140mm deep bowl fitted onto cupboard (cupboard elsewhere) fixed in accordance with manufacturer's instructions (allow a PC Amount of R 2200,00/each excluding VAT)	No	1		
		Showers Complete with Cobra Star Concealed top taps FSTAF1S5-0GT01 (2 off) and Cobra hooded shower rose and arm FSWHR107-0GT0156 or similar approved.	No	2		
		Solar Geysers complete. Kwikot 150 litre Standard Solar geyser installed complete.				
		Accessories				
4.12.2.6		110mm uPVC floor Drain with 300 x 300mm grating trap etc fixed flush in floors	No	2		
4.12.3		WASTE UNIONS ETC				
4.12.3.1		32mm Chromium plated slotted basin waste union	No	2		
4.12.3.2		38mm Bath or sink waste union	No	Rate Only		
4.12.4		TRAPS ETC				
4.12.4.1		32-40mm Rubber deep seal P or S trap	No	2		
4.12.4.2		40mm Rubber deep seal combination "P" trap for double bowl sink.	No	1		
4.12.5		TAPS VALVES ETC				
		Approved				
4.12.5.1		15mm CP angle regulating valve	No	1		
4.12.5.2		Demand push button chrome plated pillar tap with raised nose hot and cold indices and flanged batch nut. All items to be fully fitted with all necessary plumbing accessories.	No	2		
4.12.5.3		Chrome plated elbow action bib tap with trigger control hand wash set with blue indices. All items to be fully fitted with all necessary plumbing accessories.	No	3		
4.12.5.4		15 x 350mm CP flexible connector	No	Rate Only		
4.12.6		SANITARY PLUMBING				
		uPVC pipes				
4.12.6.1		50mm Pipes	m	20		
4.12.6.2		50mm Pipes chased into brick walls	m	25		
4.12.6.3		110mm Pipes	m	15		
		Extra over uPVC pipes for fittings				
4.12.6.4		50mm Bend	No	5		
4.12.6.5		50mm Access bend	No	3		
4.12.6.6		50mm Junction	No	3		
4.12.6.7		50mm Access junction	No	3		
4.12.6.8		110mm Bend	No	2		
4.12.6.9		110mm Access bend	No	2		
4.12.6.10		110mm Socket	No	3		
4.12.6.11		110mm Junction	No	3		
4.12.6.12		110mm Reducing junction	No	6		
4.12.6.13		110mm Access junction	No	6		
4.12.6.14		110mm Two-way vent valve	No	3		
4.12.6.15		110mm Pan connector	No	2		
		Sundries				
4.12.6.16		Testing sanitary plumbing system	Item	Rate Only		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
4.12.7		DOMESTIC WATER SUPPLIES				
		Class "O" copper pipes:				
4.12.7.1		15mm Pipes	m	25		
4.12.7.2		15mm Pipes chased in brickwork	m	25		
4.12.7.3		22mm Pipes	m	15		
4.12.7.4		22mm Pipes chased in brickwork	m	15		
4.12.7.5		28mm Pipes	m	18		
4.12.7.6		28mm Pipes chased in brickwork	m	18		
		Extra over class "O" copper pipes for capillary fittings				
4.12.7.7		15mm Fittings	No	9		
4.12.7.8		22mm Fittings	No	8		
4.12.7.9		28mm Fittings	No	4		
		Sundries				
4.12.7.10		Testing water pipe system	Item	Rate Only		
4.12.8		FIRE PROTECTION				
		Fire Equipment				
4.12.8.1		Statutory Signage	No	5		
4.12.8.2		Fire Extinguishers	No	1		
4.12.8.3		Fire Hose reel	No	1		
4.12.8.4		Break Glass Units	No	1		
4.12.9		TANKS ETC,				
4.12.9.1		5 000 Litre uPVC vertical water storage "Jojo" or similar approved tank including necessary plumbing fittings	No	1		
4.13		GLAZING				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill,				
4.13.1		TOPS SHELVES DOORS MIRRORS ETC,				
		6mm 'GC' quality polished silvered float glass copper backed mirrors with polished edges holed for and fixed with round rose chromium plated mirror screws with rubber buffers to plugs in brickwork or concrete:				
4.13.1.1		Mirror 450 x 600mm high with four screws,	No	4		
4.14		PAINTWORK				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill,				
		SUPPLEMENTARY PREAMBLES				
		Descriptions of paintwork shall be deemed to include for all cutting in				
		PAINT SPECIFICATION				
		All materials for paintwork for which South African Bureau of Standards specifications have been published shall comply the requirements of such specifications and shall bear the standardisation mark of the South African Bureau of Standards on the container or packing. Materials for paintwork for which no SABS specifications have been published shall be of a brand and manufacture approved by the Director-General prior to its use				
4.14.1		PAINTWORK ETC TO NEW WORK ON				
		One coat alkali resistant plaster primer and two coats PVA acrylic emulsion paint on				
4.14.1.1		Internal plastered walls,	m ²	134		
4.14.2		ON PLASTERBOARD SURFACES				
		One coat alkali resistant plaster primer and two coats PVA acrylic emulsion paint on				
4.14.2.1		On ceilings and cornices including priming nail heads	m ²	55		
4.14.3		ON FIBRE-CEMENT				
		Prepare and apply one coat zinc chromate to nail heads and H-spline strips one universal undercoat stop and apply two finishing coats of eggshell enamel on:				
4.14.3.1		Ceilings and cornices including priming metal cover strips and nail heads ("White" colour group)	m ²	47		
4.14.3.2		Fascias bargeboards etc,	m ²	15		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
4.14.4		ON METAL SURFACES				
		Prepare and apply one coat zinc phosphate alkyd resin primer one coat universal undercoat and two full coats high gloss enamel paint				
4.14.4.3		On pressed steel door frames	m ²	6		
4.14.4.4		On grille gates and screens (both sides measured on flat)	m ²	5		
4.14.5		ON WOOD SURFACES				
		Three coats polyethylene clear varnish				
4.14.5.3		On doors	m ²	21		
4.15		PROVISIONAL SUMS				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.				
		SUPPLEMENTARY PREAMBLES				
		Work executed by direct contractors				
		Work listed under the heading "DIRECT CONTRACTORS WORK" will commence during the execution of this contract and the contractor shall allow free access to the site for these direct contractors. The contractor shall prepare a programme in conjunction with these direct contractors in order to complete the work successfully. The direct contractors will be regarded as nominated sub-contractors but payment will not be made to them via the contractor. The estimated values of these contracts are listed to enable the contractor to determine profit and attendances if required				
		General				
		Unless otherwise described all prime cost amounts and provisional sums exclude the cash discount of 5% and include for delivery to site of all articles concerned. All prime cost amounts and provisional sums are net and include for delivery to site of all articles concerned				
4.15		PROVISIONAL SUMS				
		Preliminaries				
		The contractor is referred to the Preliminaries for further amplification of "Prime Cost Amounts and Provisional Sums"				
4.15.1		ELECTRICAL RETICULATION				
		Nominated/Selected Sub-Contractor				
4.15.1.1		Provide an amount for Electrical Reticulation Installation to be used as directed by the Principal Agent or deducted in whole or in part,	ProvSum	1	R100,000.00	R100,000.00
4.15.1.2		Overheads, charges and profit on item above 9.15.1.1	%			
4.15.2		MECHANICAL INSTALLATION				
		Nominated/Selected Sub-Contractor				
4.15.2.1		Provide an amount for Mechanical installations to be used as directed by the Principal Agent or deducted in whole or in part,	ProvSum	1	R50,000.00	R50,000.00
4.15.2.2		Overheads, charges and profit on item above 9.15.2.1	%			
TOTAL CARRIED TO SUMMARY						

SECTION 5 : GUARD HOUSE/WEIGHBRIDGE OFFICE

ITEM NO.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5.0		<p>PRELIMINARIES</p> <p>BUILDING AGREEMENT AND PRELIMINARIES</p> <p>The JBCC Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement amended as hereinafter described</p> <p>The JBCC Principal Building Agreement contract data form an integral part of this agreement</p> <p>The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities amended as hereinafter described</p> <p>The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause</p> <p>The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only</p> <p>Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable"</p> <p>Where standard clauses or alternatives are not entirely applicable to this agreement such amendments modifications corrections or supplements as will apply are given under each relevant clause heading and such amendments modifications corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents</p>				
5.1		<p>EARTHWORKS (PROVISIONAL)</p> <p>PREAMBLES</p> <p>The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill,</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Nature of ground</p> <p>A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured,</p> <p>Carting away of excavated material</p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or alternatively from stock piles situated on the building site,</p> <p>Filling</p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work prices for filling and backfilling shall include for all selection and any multiple handling of material,</p> <p>Trade names</p> <p>Items materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required, Items materials or methods of similar quality may be used with prior written approval from the Project Manager,</p> <p>Excavations in conditions other than earth</p> <p>Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock" he must notify the Principal Agent immediately in order that an inspection may be made and a decision arrived at by the Project Manager as to the category of such excavation. Should the contractor fail to give such notification the excavation shall be deemed to be in earth and shall be valued accordingly,</p> <p>Subterranean water</p> <p>The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's Office.</p>				
5.1		EXCAVATION FILLING ETC OTHER THAN BULK				
5.1.1		EXCAVATION ETC				
		Excavation in earth or compacted filling not exceeding 2m deep				
5.1.1.1		Trenches	m ³	11		
5.1.1.2		Sides of trench and hole excavations not exceeding 15m deep	m ²	26		
		Keeping excavations free of water				
5.1.1.2		Keeping excavations free of all water other than subterranean water	Item	1		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
5.1.2		FILLING ETC				
		Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density				
5.1.2.1		Backfilling to trenches holes etc	m ³	6		
		Earth filling of G5 material supplied by the contractor compacted in 150mm layers to 98% Mod AASHTO to density				
5.1.2.1		Under floors steps paving's etc	m ³	26		
		Earth filling of G7 material supplied by the contractor compacted in 150mm layers to 98% Mod AASHTO to density				
		Prescribed density tests on filling				
5.1.2.2		Modified AASHTO Density test	No	3		
5.1.3		SOIL POISONING				
		Soil insecticide under a 10 year guarantee by a firm of specialist				
5.1.3.1		Under floors etc including forming and poisoning shallow furrows etc and filling in furrows and ramming	m ²	18		
5.1.3.1		To bottoms and sides of trenches etc	m ²	26		
5.2		CONCRETE FORMWORK AND REINFORCEMENT				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill,				
		SUPPLEMENTARY PREAMBLES				
		Cost of tests				
		The costs of making storing and testing of concrete test cubes/slump tests as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose for testing costs and for submitting reports on the tests to the Engineer. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the Engineer. (Test cubes are measured separately).				
5.2.1		UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
		15MPa/19mm Concrete in:				
5.2.1.1		Surface blinding under footings and bases	m ³	1		
5.2.2		REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
		30MPa/19mm concrete in:				
5.2.2.1		Strip footings	m ³	5		
5.2.4		REINFORCED CONCRETE				
		30MPa/19mm concrete				
5.2.4.1		Surface beds cast in panels on waterproofing	m ³	2		
5.2.4.2		Surface beds cast in panels on waterproofing - apron slab	m ³	1		
5.2.5		TEST CUBES (PROVISIONAL)				
5.2.5.1		Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	2		
5.2.6		CONCRETE SUNDRIES				
		Finishing top surfaces of concrete smooth with a steel trowel				
5.2.6.1		Surface beds slabs etc	m ²	28		
5.2.7		MOVEMENT JOINTS ETC				
		Saw cut joints				
5.2.7.1		5 x 10mm Saw cuts in top of concrete	m	5		
5.2.8		REINFORCEMENT (PROVISIONAL)				
		Mild steel reinforcement to structural concrete work				
5.2.8.1		In Varying diameters	t	0.14		
		Fabric reinforcement				
5.2.8.3		Mesh Ref 395 fabric reinforcement in concrete surface beds etc	m ²	18		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
5.3		MASONRY PREAMBLES The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill, SUPPLEMENTARY PREAMBLES BRICKWORK Unless otherwise described all brickwork shall be built in stretcher bond SIZES IN DESCRIPTIONS Where sizes in descriptions are given in brick units "one brick" shall represent the length and "half brick" the width of a brick POINTING Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed hollow recessed weathered pointing etc WALL TIES Descriptions of solid walls (except if built in English bond) and cavity walls shall be deemed to include metal wall ties complying with SABS 28 and of the butterfly or of the modified PWD type of the required length with each end built at least 75mm deep into brickwork spaced at not more than 1m centres alternately to every third course of brickwork FACINGS Descriptions of "Extra over ordinary brickwork" items shall be deemed to include for the extra cost of the facing bricks specified over common brickwork built in stretcher bond unless otherwise stated and shall include for building in cement mortar made of clean washed sand Bricks shall be ordered timeously to obtain uniformity in size and colour SAMPLE PANEL The contractor shall be required to build a 2m ² sample panel of face brick work for approval by the Agent / Representative prior to commencing with the work BRICKWORK				
5.3.1		FOUNDATIONS (PROVISIONAL) Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar				
5.3.1.1		One brick walls	m ²	12		
5.3.2		SUPERSTRUCTURE Brickwork in NFP bricks (7 Mpa nominal compressive strength) in class II mortar				
5.3.2.1		One and a half brick walls,	m ²	19		
5.3.2.1		One brick walls,	m ²	40		
5.3.3		BRICKWORK SUNDRIES Brickwork reinforcement				
5.3.3.2		150mm Wide reinforcement built in horizontally	m	90		
5.3.3.3		Concrete prestressed fabricated lintels				
5.3.3.3		110 x 75mm Lintels in lengths not exceeding 3m	m	8.4		
5.3.4		FACE BRICKWORK Approved face bricks pointed with recessed horizontal and vertical joints (Allow PC Amount of R 5 500,00 per thousand delivered to site excluding VAT)				
5.3.4.1		Extra over brickwork for face brickwork	m ²	59		
5.3.4.5		Cut face brick-on-edge external window sill 180mm wide set sloping and slightly projecting in cement mortar and pointed on top front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends Sample panel	m	3		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
5.4		WATERPROOFING				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill,				
		SUPPLEMENTARY PREAMBLES				
		Waterproofing				
		Waterproofing of roofs basements etc shall be laid under a ten year guarantee, Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges hips and valleys, Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
5.4.1		DAMPPROOFING OF WALLS AND FLOORS				
		One layer approved 375 micron embossed black polyethylene damp proof course				
5.4.1.1		In walls	m	15		
		One layer 250 micron green polyethylene waterproof sheeting complying with SABS 952 Type C in widest practicable widths with all joints lapped and sealed with pressure sensitive tape all in strict accordance with the manufacturer's requirements				
5.4.1.2		Under surface beds	m ²	18		
5.5		ROOF COVERINGS ETC				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill,				
5.5.1		PROFIED METAL SHEETING AND ACCESSORIES				
		Note The Contractor is to submit a certificate signed by the merchant stating that the galvanised roof covering supplied complies with the required thickness specified				
		06mm Chromadeck finished galvanized metal IBR profile roof sheeting, cladding fastened to timber roof trusses				
5.5.1.1		Roof covering with pitch not exceeding 26 degrees	m ²	28		
		06mm Colomet finished galvanized metal IBR profile roof sheeting, cladding fastened to structural steel				
5.5.1.3		Ridge capping 462mm girth	m	6		
5.5.2		ROOF AND WALL INSULATION				
		Aluminium foil based insulation				
		4mm Approved (fire retardant grade) white polyethylene coated single sided aluminium foil insulation (code 2906) laid taut over steel purlins complying with SANS 428 and fixed concurrently with roof covering including white PVC coated straining wires at 383mm centres all in accordance with the manufacturer's recommendations,				
5.5.2.1			m ²	14		
5.6		CARPENTRY AND JOINERY				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill,				
		SUPPLEMENTARY PREAMBLES				
		FITTINGS GENERAL				
		Where fittings have been measured as complete units i.e. the components of the units have not been separately measured the descriptions of such units shall be deemed to include all components assembling housing notching glueing blocking planing on and screwing with countersunk screws edge strips decorative plastic finish glass ironmongery metalwork paint or varnish finishes etc				
		Unless specifically stated or where no finish is given finishes to all joinery fittings shall be three coats polyurethane clear semi-gloss varnish to all exposed surfaces				
		PARTICLE BOARD				
		Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type				
		DECORATIVE LAMINATE FINISH				
		Laminate finish shall be glued under pressure, Edge strips shall be butt jointed at junctions with adjacent similar finish				
		CONSTRUCTION				
		Construction of fittings shall be generally of wood screwed and glued with pelleted heads where visible, All materials used must be of the best quality fabricate approved by the Representative / Agent and all the units to be finished neat and true prior to installation and finishing				
		DOORS TO FITTINGS				
		Sizes of doors and drawers are approximate, Correct sizes must be taken from the fittings concerned				
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
5.6.1		PREFABRICATED METAL CONNECTOR PLATE TIMBER ROOF TRUSSES a, All the roof trusses to be designed and constructed with softwood structural timber to include for live loads wind loads and to take profiled metal roof covering purlins and fibre cement or gypsum plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spike connectors fixed on both sides of each intersection by an approved method all in accordance with the manufacturer's instructions, b, Unless otherwise described all rafter feet are to extend approximately 850mm beyond the length of the tie beam with end splayed cut, c, The design manufacture and transportation of the roof trusses bracing etc. shall be under the control of a registered Engineer and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent d, All timber shall be stress-graded pine or glued laminated timber for construction or engineering purposes in accordance with the specifications of SABS Specification No 563 or as defined in SABS Specification No.1245, Stress-grades shall be marked as specified viz V4 M4 V6 M6 etc., e, Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd, and the National Timber Research Institute CSIR, f, Descriptions of roof trusses shall be deemed to include for design manufacture supply hoisting and fixing in position trimming ends notching ALL TEMPORARY AND PERMANENT BRACING fixing blocks etc., g, All timber must be Grade 7 as per table 3 of SABS 0163-2001 h, All timber screws bolts plate connection or any other type of connector to be in accordance with Annexure 'A' of SABS 0163-2001 i, All workshop drawings must be provided to the engineer for approval before fabrication j, The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect drawings and/or the site before design or fabrication commences k, All timber to be treated in accordance with SABS 05 l, All exposed timber to be treated with carbolineum m, All roof timber to be treated with fire retardant paint Complete prefabricated timber roof trusses with a pitch not exceeding 26 degree pitch including all necessary hoisting labour timber for bracing purlins wall plates gangboards certificate and guarantee for design and erection to be supplied by truss manufacturer, All exposed timber sections as well as sections in contact with wet trades to be creosote treated before fixing into position,				
5.6.1.1		Guard House 27m² measured flat	Item	1		
5.6.2		EAVES VERGES ETC High density plain fibre-cement fascias and barge boards				
5.6.2.1		15 x 225mm Fascias boards including galvanised steel H-profile jointing strips	m	21		
5.6.3		DOORS ETC Solid Meranti T&G frame battered and braced external doors with flush veneer internal panel hung on steel frames.				
5.6.3.1		44mm Door 813 x 2032mm high	No	1		
5.6.4		SKIRTINGS Wrought meranti				
5.6.4.1		25 x 110mm Skirtings including 25mm quadrant bead nailed	m	15		
		COUNTER TOPS 3000x600x40mm Formica counter top including pedestal to support.	m	3		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
5.7		CEILING PARTITIONS AND ACCESS FLOORING				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill,				
		SUPPLEMENTARY PREAMBLES				
		Descriptions				
		Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete				
		Items described as "plugged" shall be deemed to include screwing to fibre plastic or metal plugs at not exceeding 600mm centres and where described as "bolted" the bolts are measured elsewhere				
		Ceilings				
		Unless otherwise described ceilings shall be deemed to be horizontal				
5.7.1		NAILED UP CEILINGS				
		64mm Gypsum plasterboard with 6 x 50mm fibre cement cover strips over joints finished smooth with gypsum skim plaster				
5.7.1.1		Ceilings including 38 x 38mm sawn softwood branderling at 400mm centres in one direction	m ²	14		
5.7.1.2		Extra over ceiling for 500 x 500mm trap door of 38 x 250mm wrought softwood rebated framing with one cross brander covered with ceiling board and fitted flush in opening including necessary trimmers around	No	1		
		Gypsum plasterboard cornices				
5.7.1.3		75mm Coved cornices plugged	m	15		
5.7.2		INSULATION				
		Non-combustible lightweight fibreglass insulation blanket:				
5.7.2.1		100mm Insulation closely fitted between tie beams and laid loose on top of branderling,	m ²	14		
5.8		IRONMONGERY				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill,				
		SUPPLEMENTARY PREAMBLES				
		FINISHES TO IRONMONGERY				
		Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list : CH				
5.8.1		LOCKS				
		Samples to be approved by Architect				
5.8.1.1		4 lever lockset and furniture	No	1		
5.8.2		SUNDRIES				
		In accordance with Architect's specifications				
5.8.2.1		38mm Diameter rubber door stop plugged	No	1		
5.9		STRUCTURAL STEELWORK				
		CPA WORK GROUP				
		Unless otherwise stated all items in this bill will be Work Group 134				
		PREAMBLES				
		The contractor is referred to the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill,				
		SUPPLEMENTARY PREAMBLES				
		Descriptions				
		Descriptions of bolts shall be deemed to include nuts and washers				
		Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending threading nuts and washers and embedding in concrete, Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork,				
		Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts washers and mortices in brickwork or concrete,				
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
		SUPPLEMENTARY PREAMBLES				
		Descriptions				
		Descriptions of bolts shall be deemed to include nuts and washers				
		Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending threading nuts and washers and embedding in concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork.				
		Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts washers and mortices in brickwork or concrete.				
5.10		METALWORK				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.				
		SUPPLEMENTARY PREAMBLES				
		DESCRIPTIONS				
		Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts washers and mortices in brickwork or concrete. Metalwork described as "holed for bolts" shall be deemed to include the bolts unless otherwise described				
5.10.1		WELDED SCREENS GATES ETC				
		The following in framed and welded galvanised mild steel security grille gates including fixing in position complete				
		Gate frame consisting of 50 x 50 x 2,5mm rectangular tubing sections metre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm (M10) rawl bolts including gate consisting of 50 x 50 x 2,5mm square tubing sections metre 45 degrees at corners before welded with 2 horizontal sections with vertical styles out of 12 x 12mm mild steel solid square bars at equal centres of 100mm complete with 2 x pairs 20mm diameter bullet hinges per gate.				
5.10.1.1		Single Gate Size 900 x 2100mm high overall	No	1		
5.10.2		ALUMINIUM WINDOWS DOORS ETC				
		Charcoal powder coated window units complete with subframes ironmongery 4,00mm thick clear float glass with Low E coating sealing etc and fixing to brickwork or concrete				
5.10.2.1		Purpose made window type W2 1022 x 949mm high	No	1		
5.10.2.2		Purpose made window type W3 1511 x 949mm high	No	1		
5.11		PLASTERING				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.				
		SUPPLEMENTARY PREAMBLES				
		Plaster described as "on brickwork" shall be deemed to include for small portions of plaster on concrete flush with brickwork and prices should include for all the necessary preparatory work				
5.11.1		SCREEDS				
		1:3 Cement screeds wood floated on concrete				
5.11.1.1		30mm Thick on floors and landings	m ²	14		
5.11.2		INTERNAL PLASTER				
		Cement plaster on brickwork				
5.11.2.1		On walls	m ²	40		
5.12		TILING				
		PREAMBLES				
		The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.				
		SUPPLEMENTARY PREAMBLES				
		DESCRIPTIONS				
		Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls columns etc shall be deemed to include 4:1 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 3:1 cement mortar bedding				
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
5.12.1		FLOOR TILING 600 x 600mm Vinyl floor tiles fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted waterproof jointing compound				
5.12.1.1		On floors and landings	m ²	18		
5.13		PLUMBING AND DRAINAGE (PROVISIONAL) PREAMBLES The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill. SUPPLEMENTARY PREAMBLES DESCRIPTIONS AND PREAMBLES Reference shall be made to other trades for preambles and full descriptions of items not fully described in this trade which shall apply equally to work in this trade unless otherwise described RATES Rates for all piping fittings etc shall include for all fixing in position of fittings cutting of chases in brickwork or concrete excavation of trenches backfilling etc unless otherwise described DIAMETER OF PIPES Diameters stated for pipes traps valves etc are internal diameters except uPVC polyethylene stainless steel and copper pipes for which external diameters are stated REDUCING FITTINGS Where fittings have reducing ends or branches they are described as "reducing" In the case of pipes with diameters not exceeding 60mm only the largest end or branch is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes reducers etc will be entertained uPVC PIPES AND FITTINGS Sewer and drainage pipes and fittings shall be according to SABS 791 jointed and sealed with butyl rubber rings. Soil waste and vent pipes and fittings shall be according to SABS 967 and solvent jointed. Cold water supply pressure pipes and fittings shall be according to SABS 966 and jointed by means of the "Lyng" type jointing system. Pipes shall be fixed and jointed according to SABS 0112				
5.13.1		RAINWATER DISPOSAL Pre-Painted Seamless Aluminium Ogee Gutters Rainwater Pipes And Accessories In Long Lengths				
5.13.1.1		125 x 85mm seamless aluminium gutters	m	21		
5.13.1.2		Extra over gutter for stopped end	No	0		
5.13.1.3		Extra over gutter for angle	No	4		
5.13.1.4		Extra over gutter for outlet for 100mm pipe including galvanised wire balloon grating	No	2		
5.13.1.5		75x100 mm Diameter aluminium rainwater downpipe fixed to walls as per manufactures instruction	m	8		
5.13.1.6		Extra over rainwater pipe for shoe	No	2		
5.13.2		FIRE PROTECTION Fire Equipment				
5.13.2.1		Statutory Signage	No	1		
5.13.2.2		Fire Extinguishers	No	1		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFERENCE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
5.14		PAINTWORK PREAMBLES The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill, SUPPLEMENTARY PREAMBLES Descriptions of paintwork shall be deemed to include for all cutting in PAINT SPECIFICATION All materials for paintwork for which South African Bureau of Standards specifications have been published shall comply the requirements of such specifications and shall bear the standardisation mark of the South African Bureau of Standards on the container or packing. Materials for paintwork for which no SABS specifications have been published shall be of a brand and manufacture approved by the Director-General prior to its use				
5.14.1		PAINTWORK ETC TO NEW WORK ON One coat alkali resistant plaster primer and two coats PVA acrylic emulsion paint on				
5.14.1.1		Internal plastered walls,	m ²	40		
5.14.2		ON PLASTERBOARD SURFACES One coat alkali resistant plaster primer and two coats PVA acrylic emulsion paint on				
5.14.2.1		On ceilings and cornices including priming nail heads	m ²	14		
5.14.3		ON FIBRE-CEMENT Prepare and apply one coat zinc chromate to nail heads and H-spline strips one universal undercoat stop and apply two finishing coats of eggshell enamel on:				
5.14.3.1		Ceilings and cornices including priming metal cover strips and nail heads ("White" colour group)	m ²	15		
5.14.3.2		Fascias bargeboards etc,	m ²	20		
5.14.4		ON WOOD SURFACES Three coats polyethylene clear varnish				
5.14.4.1		On doors	m ²	4		
5.15		PROVISIONAL SUMS Preliminaries The contractor is referred to the Preliminaries for further amplification of "Prime Cost Amounts and Provisional Sums"				
5.15.1		ELECTRICAL RETICULATION Nominated/Selected Sub-Contractor				
5.15.1.1		Provide an amount for Electrical Reticulation Installation to be used as directed by the Principal Agent or deducted in whole or in part,	ProvSum	1	R50,000.00	R50,000.00
5.15.1.2		Overheads, charges and profit on item above 12.16.1.1	%			
5.15.2		MECHANICAL INSTALLATION Nominated/Selected Sub-Contractor				
5.15.2.1		Provide an amount for Mechanical installations to be used as directed by the Principal Agent or deducted in whole or in part,	ProvSum	1	R20,000.00	R20,000.00
5.15.2.2		Overheads, charges and profit on item above 12.16.2.1	%			
TOTAL CARRIED FORWARD						

SECTION 6 : MISCELLANEOUS

ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6.1		CONSERVANCY AND SEPTIC TANKS				
6.1.1		Convert soakaway to Conservancy tank by exposing and closing outlet with concrete and install new cover and manhole cover, minor eathworks to ensure accessible to honeysucker. <u>Or</u> Septic tank to be assessed by the Engineer at the time of construction, who may elect to demolish existing tank and replace with SABS approved pre-fabricated septic tank (5400 litres) installed to the same invert. Outlet to be sealed. Maximum excavation depth 3,0m. Existing tank demolished and rubble removed and disposed at licenced landfill.	P/Sum	1	R 100,000.00	R 100,000.00
6.2		SIGNAGE				
6.2.1		Supply and installation of signage (approximately 0.75m x 0,5m) on on each face of fence, total (no unauthorised entry, danger)	No	10		
6.3		MONITORING/ SETTLEMENT BEACONS				
6.3.1		Settlement bench mark monitoring by a nominated Surveyor	Prov Sum	2	R 12,500.00	R 25,000.00
6.3.2		Handling fee % on above	%			
6.4		WAYLEAVE AND STAKEHOLDER ENGAGEMENT				
6.4.1		Apply and maintain wayleaves for the duration of the contract as per the service providers conditions	Prov Sum	1	R 30,000.00	R 30,000.00
6.5		BULK WASTE CONTAINERS				
6.5.1		Supply and deliver 6m3 bulk waste containers	No	4		
6.6		WEIGHBRIDGE				
6.6.1		Supply and install a single lane 18m weighbridge as directed by the Engineer. The Provisional to also include civil works i.e. earthworks concrete works etc, electrical work etc for a fully functional weighbridge.	Prov Sum	1	R 1,000,000.00	R 1,000,000.00
6.7		EMPTYING OF SEPTIC TANK				
6.7.1		Emptying of septic tank by a specialist contractor with relevant "honey sucker" type plant.	Prov sum	2	R 4,000.00	R 8,000.00
6.7.2		Handling fee % on above	%			
6.8		LANDSCAPING AND COMMUNITY NOTICEBOARD				
		Minor earthworks and planting of shrubs and vegetation to prevent soil erosion, under direction of project consultant-botanist. To include a roofed information board to owner's specification.	Prov Sum	1	R 100,000.00	R 100,000.00
TOTAL CARRIED TO SUMMARY						

SUMMARY

SECTION	DESCRIPTION	AMOUNT
SECTION 1:	PRELIMINARY AND GENERAL	R
SECTION 2:	DRAINS AND ASSOCIATED WORKS	R
SECTION 3:	FENCING	R
SECTION 4:	BUILDINGS (STAFF OFFICE)	R
SECTION 5:	BUILDINGS (WEIGH OFFICE)	R
SECTION 6:	MISCELLANEOUS	R
SUB TOTAL:		R _____
VALUE ADDED TAX (15%)		R _____
TOTAL AMOUNT:		R =====

PART C3: SCOPE OF WORK

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C3.1: PROJECT DESCRIPTION AND SCOPE OF CONTRACT

C3.1.1 Description of Works

The works are to include the following:

1. The setting out to given co-ordinates, and afterwards providing a Registered Surveyor's "As-built" drawing for perimeter fence and stormwater drain.
2. Clearing of vegetation in a 5m strip along fence route, taking into account the advice of Specialist Botanist on trees that may not be damaged or removed.
3. Installing a 1616m length of concrete palisade fence on the perimeter of the Wyebank Garden Waste Site including the removal of approximately 500m existing wire mesh fence. Installation of a main entrance gate.
4. Constructing approx. 180m length of concrete trapezoidal drains including excavation, base compaction, the laying of geocellular product and filling with 10 MPa mass concrete, smoothed.
5. Installation of a new Weighbridge near the site entrance.
6. Construction of a Weighbridge kiosk.
7. General site clearing of alien vegetation and small amounts of scrap, as directed, at entrance area and northern stream only.
8. Converting a soakaway septic tank to a conservancy tank by exposing the outlet and sealing, and minor rehabilitation to ensure water-tightness.
9. Additional ancillary works such as signages, building of a guard house, repairs to an existing park home

C3.1.2 Description of Site and Access

The Wyebank Garden Refuse site is situated in the Kloof area near the DSW Wyebank Depot on Wyebank Road in a residential area of Kloof, within the eThekweni Municipality. Access is off Wyebank Road.

The area of the site is approximately 7 hectares. The site has been closed for some time and the waste is covered, but it has been operating as a garden transfer site. The DSW Wyebank depot trucks also use the site for parking. There is a parkhome office and ablution block at the entrance. There is an old railway line running near the site. The waste body extends from near the existing gate on the north side of the site to the south of the site. The site slopes to the east where the said stream joins another water-course to the east. There are two boreholes which may not be disturbed, as well as settlement monitoring bench marks which may not be disturbed.

There are residences immediately south of the site, as well as in close proximity to the east and west. The site is lower than the surrounds and overlooked from the residential areas. The drawing shows the general layout of the site. The site co-ordinates at the entrance are:

29°47'08.5"S 30°51'30.9"E

C3.1.3 Nature of Ground and Subsoil Conditions

The site was a borrow area prior to use as a garden waste site, so on the western flank and southern flank upper residual sandstone and dolerite layers may have been removed in places. The area is predominantly sandstone with some dolerite intrusions and clayey upper soils in the

lower-lying areas. Excavations are shallow and expected to be within soft and intermediate.

C3.1.4 CIDB B.U.I.L.D. Programme (Employer's objectives)

Standard for Indirect Targeting for Enterprise Development

It will be a Condition of Contract that the Contractor shall, in the performance of the contract, achieve the **Contract Participation Goal (CPG)** relating to the engagement of targeted enterprises as established in the below referenced standard:

- CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, published in Gazette Notice No. 36190 of 25 February 2013.
- a) The objective of the project is to provide for a minimum contract participation goal (CPG) of 5% of the total project value and to develop targeted enterprises by the main or lead partner contractors.
 - b) The successful contractor shall:
 1. Subcontract a minimum of 5% of the total project value to targeted enterprises;
 2. Develop the targeted enterprise/s in two development areas as specified in the Standard, and agreed by both the main contractor and the targeted enterprise/s;
 3. Perform needs analysis on the targeted enterprise to identify developmental goals;
 4. Provide internal mentorship support to improve the targeted enterprise/s performance;
 5. Develop a project specific enterprise development plan to improve the targeted enterprise/s performance in the identified developmental areas;
 6. Monitor and report the progress of the agreed development areas with the targeted enterprise/s; and
 7. Submit a project completion report to the Employer's representative for each targeted enterprise.
 - c) The development of the Targeted Enterprise shall be guided by the **CIDB Competence Standard for Contractors** (Gazette No. 41237, 10 November 2017). Below table outlines the minimum recognised qualifications to which development of targeted enterprises must be undertaken by the main contractor.

CIDB Grade	Minimum NQF Level	Recognised Qualifications
Business Management		
5 & 6	5	• National Occupational Qualification in Business Management NQF 5
2 to 4	2	• National Certificate: Construction Contracting NQF 2
Building and Construction Works Management		
5 & 6	5	• National Certificate: Management of Building Construction Processes NQF 5
2 to 4	3	• NCV 4: Civil Engineering and Building Construction, or • National Certificate: Supervision of Construction Processes
Civil Engineering Construction Works		
5 & 6	5	• National Certificate: Management of Civil Engineering Processes NQF 5, or • National Diploma: Civil Engineering and Building Diploma
2 to 4	3	• NCV 4: Civil Engineering and Building Construction or • National Certificate: Supervision of Construction Processes, or

		<ul style="list-style-type: none">• Further Education and Training Certificate: Supervision of• Construction Processes
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Title	Scope of work
Function and broad outline of contents	Specifies and describes the supplies, services, or engineering and construction works which are to be provided and any other requirements and constraints relating to the manner in which the contract work is to be performed.

- 1 The scope of work should, in line with international best practice, wherever possible, be:
 - a) described in terms of performance rather than the design of descriptive characteristics; and
 - b) based on national or international standards, where such exist.
- 2 SANS 10403 suggests that the following topics be addressed in a scope of works:

TOPIC	COMMENTARY
Client's / employer's objectives	Describe the client's / employer's objectives for the services.
Description of the services	Provide a short description of the services and outline what the consultant is to provide.
Extent of the services	Provide a brief outline of the extent of services and key deliverables, as appropriate.
Use of reasonable skill and care	Identify the work for which the consultant is required to exercise reasonable skill and care.
Co-operation with other services providers	Identify other service providers on the project and establish how interactions are to take place.
Brief	State, as necessary; <ol style="list-style-type: none"> a) terms of reference; b) time frames for deliverables / milestone dates; c) place(s) for the performance of specific tasks; and d) reporting requirements.
Reference data	State the reports, surveys, agreements, etc upon which the service provider is to base his brief, if any.
Applicable national and international standards	List all applicable national, regional and international standards and all values pertaining to specific attributes relating thereto.
Particular/Generic specifications	Attach or make reference to particular (purpose written) or generic (standard in-house) specifications (purpose written for the project or specifications of the procuring Division or professional associations) which are applicable to the services.
Approvals	Identify all those parties from whom the consultant has to obtain approvals and outline the procedures that are to be followed.
Procurement	State requirements appropriate to the methodology and procedures that are to be followed. (See Annex A of SANS 10396) Make reference to Preference Schedules, if any. State the number, title and edition of SANS 1914 series of resource specifications applicable to the contract and all data and definitions required e.g. definitions of target groups, weighting factors, etc. (Refer to SANS 10396 for specific guidance) State the variations, if any, to the SANS 1914 resource specification.
Access to land / buildings / sites	Describe arrangements for access to land / buildings / sites and any restrictions relating thereto.

TOPIC	COMMENTARY
Planning and programming	State requirements for format of programme, level of detail, critical path activities and their dependencies, frequency of updating, key dates, etc. Provide particulars of phased completion, programme constraints, milestone dates for completion etc., as necessary. List the activities to be carried out by the employer/client or by others which are to be included in the consultant's programme.
Software application for programming	State any requirements.
Quality management	Briefly describe <ul style="list-style-type: none"> - what quality management systems the consultant will be required to operate - the intention of the employer / client in terms of the monitoring of quality management, who will carry out such monitoring (employer / client or agent) and if the monitoring forms part of a quality management system or will require only an occasional verification.
Format of communications	State formats of different types of communications, and attach pro formas of such documents to the end of the Scope of Works. Also state requirements for the format of documents which are to be retained, eg microfilm, computer tapes / CDs or original form.
Key personnel	State requirements for a schedule of key personnel / schedule of contact particulars of key personnel, if required, and state when the schedule is to be submitted. Attach pro formas of such documents to the end of the Scope of Works.
Management meetings	Provide particulars of times, days, location, attendance requirements, etc., as required, and state requirements for representatives having the necessary delegated authority.
Forms for contract administration	State requirements, if any, for use of standard forms for contract administration purposes and attach pro formas of such documents at the end of the Scope of Works. Also state if forms are available in electronic format.
Electronic payments	State details required / procedures to obtain electronic payments, as relevant.
Daily records	State requirements for daily records of time spent.
Professional indemnity insurances	State number of copies and the place where policies are to be presented.
Payment certificates	State requirements for substantiation of claims in payment certificates to expedite verification and certification by employer's / client's representative.
Use of documents by the employer	State the purpose for which the employer / client will be using any documents provided by the consultant e.g., construction, maintenance, extension, rebuilding, etc.
Property provided for the Consultant's use	List all property to be provided by the employer / client and others for the consultants use.
Proof of compliance with the law	State specific documents / methods by which compliance with any legislation is to be verified, as necessary.
ANNEXES	
List by title	Provide data sheets, completed returnable schedules, pro forma documents, particular specifications, drawings, sketches etc. which are referred to in this document.

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 Preliminary Programme

The Contractor shall include with his tender a preliminary programme on the prescribed form (**see T2.2: Preliminary Programme**) to be completed by all Tenderers. The programme shall be in the form of a simplified bar chart with sufficient details to show clearly how the works will be performed within the time for completion as stated in the Contract Data.

Tenderers may submit tenders for an alternative Time for Completion in addition to a tender based on the specified Time for Completion. Each such alternative tender shall include a preliminary programme similar to the programme above for the execution of the works, and shall motivate his proposal clearly by stating all the financial implications of the alternative completion time.

The Contractor shall be deemed to have allowed fully in his tendered rates and prices as well as in his programme for all possible delays due to normal adverse **weather conditions** (**refer to Clause 5.12.2.2**) and special non-working days (**refer to Clause 5.1.1.1**) as specified in the in the Contract Data.

PS.1.2 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 with the tender 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:

[Detail any factors which may affect the programming of the project]

(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? (eg. 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 providing of services where directed by the Engineer.

PS.1.3 Requirements for Accommodation of Traffic

PS.1.3.1 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.1.3.2 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.1.3.3 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.1.3.4 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.1.3.5 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.1.3.6 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.

[If you think necessary, draw special attention to major services.]

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 to be included in the work covered by **Clause DA.8.3**.

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

Tenderer's attention is drawn to the following points regarding the watermains to be installed as part of this contract.

[Note: It is important to briefly describe the work envisaged and the time required for this work where other organisations are involved. Particular attention should be paid to tie-ins to the

existing live mains which normally have to be done by the Water Supply Branch even if the installation of the new main is included in the contract.]

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 EtheKwini Water Services Directorate. 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 Compaction 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

The contractor to note that there is a soakaway septic tank currently on site which must be converted to a conservancy tank. The work entails exposing the outlet and sealing and minor rehabilitation to ensure water tightness.

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

[Briefly describe the work noting all special conditions].

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

[Briefly describe the work noting all special conditions].

PS.6.1 General

Various types of electrical cables including high voltage, low voltage, street lighting and domestic connection cables are affected by the contract. The laying, relocation and jointing of all cables will be carried out by eThekwini Electricity's work gangs, or agents appointed by them, whilst the excavation and backfilling forms part of this contract. Close liaison will therefore be necessary with eThekwini Electricity throughout the contract.

PS.6.2 Street Lighting

The existing lighting will be removed in stages and replaced in the centre median / intersection corners. Relocation will take place during this contract and be executed by eThekwini Electricity or their agents. It is a requirement that the street lighting be operational at all times.

PS.6.3 MV / LV Cables

Certain MV / LV cables are to be replaced within the contract area (see drg xxxxxxxxA0). The actual cable work associated with this relocation and / or replacement of these cables will be carried out by eThekwini Electricity and it is stressed that the **two** week period referred to in Clause PS.2 is the minimum period required to enable eThekwini Electricity to be on site timeously.

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

[Briefly describe the work noting all special conditions].

[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 are existing in the contract area.]

PS.8 CCTV PLANT

[Briefly describe the work noting all special conditions].

[No work to CCTV Plant is envisaged, but the Tenderers attention is drawn to the fact that CCTV cables and fibre optic cables are 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:

Describe issues relating to OH&S and the Regulations

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 Specifications and Plans 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 Plan

At tender stage only a brief overview of the Tenderer's perception on the safety requirements for this contract will be adequate. This will be attached to **T2.2: Contractor's Health and Safety Plan**.

Only the successful Tenderer shall submit a separate Health and Safety Plan as required in terms of Regulation 7 of the Occupational Health and Safety Act 1993 Construction Regulations 2014, and referred to in **T2.2: Contractor's Health and Safety Plan**.

The detailed safety plan will take into consideration the **site specific risks as mentioned under PS.10.1** and must cover at least the following:

- (i) A proper risk assessment of the works, risk items, work methods and procedures in terms of Regulations 9 to 29;
- (ii) Pro-active identification of potential hazards and unsafe working conditions;
- (iii) Provision of a safe working environment and equipment;
- (iv) Statements of methods to ensure the health and safety of subcontractors, employees and visitors to the site, including safety training in hazards and risk areas (*Regulation 7*);
- (v) Monitoring health and safety on the site of works on a regular basis, and keeping of records and registers as provided for in the Construction Regulations;
- (vi) Details of the Construction Supervisor, the Construction Safety Officers and other competent persons he intends to appoint for the construction works in terms of Regulation 8 and other applicable regulations; and
- (vii) Details of methods to ensure that his Health and Safety Plan is carried out effectively in accordance with the Construction Regulations 2014.

The Contractor's Health and Safety Plan will be subject to approval by the Employer, or amendment if necessary, before commencement of construction work. The Contractor will not be allowed to commence work, or his work will be suspended if he had already commenced work, before he has obtained the Employer's written approval of his Health and Safety Plan.

Time lost due to delayed commencement or suspension of the work as a result of the Contractor's failure to obtain approval for his safety plan, shall not be used as a reason to claim for extension of time or standing time and related costs

A generic plan will not be acceptable.

PS.10.3 Cost of compliance with the OHSA 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.

The Contractor is to take note of the prevailing security rate in the rate area, together with the allowable PSIRA rates for security when pricing this item.

The process of negotiation will not be deemed as work stoppage.

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

PS.12 PERFORMANCE MONITORING OF SERVICE PROVIDERS

The performance of service providers that have been selected to provide assistance in the provision of a municipal service, otherwise than in circumstances where Chapter 8 of the Municipal Systems Act applies, is required, by Section 116 of the Municipal Finance Management Act, to be monitored and reported on (see Cl.53 of the SCM Policy).

Appropriate key performance indicators (KPIs) for the contract must be set by the Municipality as a yardstick for measuring performance.

The following KPIs will be applicable to this contract:

- (a) Performance against approved programme
- (b) Expenditure in line with submitted cashflow

PS.13 CIDB BUILD PROGRAMME

a) CIDB Skills Standard

It will be a condition of contract that the Contractor shall, in the performance of the contract, achieve the **Contract Skills Development Goal (CSDG)** established in the below referenced standard:

- CIDB Standard for Developing Skills Through Infrastructure Contracts, published in Gazette Notice No. 48491 of 28 April 2023.

b) CIDB Indirect Targeting Standard

It will be a condition of contract that the Contractor shall, in the performance of the contract, achieve the **Contract Participation Goal** (CPG) relating to the engagement of targeted enterprises as established in the below referenced standard:

- CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, published in Gazette Notice No. 36190 of 25 February 2013.

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.

Part	Description	Date of Issue	
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
DC	Earthworks for Concrete Lined Canals		
DD	Earthworks for Structures		
EA	Lime Stabilisation		
EB	Graded Crushed Stone	December	1988
EC	Cement Treated Graded Crushed Stone	December	1988
ED	Road Asphalt	July	1992
EE	Pre-coated Stone Chippings		
EF	Kerbs and Haunches	July	1992
EG	Sidewalks, Footpaths and Median Areas	July	1992
EH	Steel Guardrails & Conc. Median Barriers		
EJ	Concrete Interlocking Block Surfaces		
EK	Waterbound Macadam Base		
EL	Dumprock Subgrade Improvement		
EM	Concrete Surface to Roads		
EN	Slurry Sealing		
EP	Single Seal Surface Treatment		
F	Protection Works	July	1992
G	Pre-stressing		
H	Reinforced Earth		
J	Piling		
K	Bearings		
L	Structural Work		
PB	Pavement Layers of Gravel Material		
PC	Stabilisation of Gravel Base		
PD	Surface Treatment: Modified Binder		
PE	Pressure Pipelines: Steel		
PF	Pressure Pipelines: Other Than Steel		
PG	Non Pressure Pipelines and Pc Culverts	July	1992
PH	Manholes and Appurtenant Drainage Works	July	1992
PJ	Pipe Jacking		
PG	Lateral Support Systems		
PS	Pump Stations: Sewage		
S	Reinstatement	March	1993
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 Work
PS DA	Earthworks: Bulk
PS DB	Earthworks for Pipe Trenches
PS DC	Earthworks for Concrete Lined Canals
PS DD	Earthworks for Structures
PS EA	Lime Stabilisation
PS EB	Graded Crushed Stone
PS EC	Cement Treated Graded Crushed Stone
PS ED	Road Asphalt
PS EE	Pre-coated Stone Chippings
PS EF	Kerbs and Haunches
PS EG	Sidewalks, Footpaths and Median Areas
PS EH	Steel Guardrails & Conc. Median Barriers
PS EJ	Concrete Interlocking Block Surfaces
PS EK	Waterbound Macadam Base
PS EL	Dumprock Subgrade Improvement
PS EM	Concrete Surface to Roads
PS EN	Slurry Sealing
PS EP	Single Seal Surface Treatment
PS F	Protection Works
PS G	Pre-stressing
PS H	Reinforced Earth
PS J	Piling
PS K	Bearings
PS L	Structural Work
PS PB	Pavement Layers of Gravel Material

PS PC	Stabilisation of Gravel Base
PS PD	Surface Treatment: Modified Binder
PS PE	Pressure Pipelines: Steel
PS PF	Pressure Pipelines: other than Steel
PS PG	Non Pressure Pipelines and Pc Culverts
PS PH	Manholes and Appurtenant Drainage Works
PS PJ	Pipe Jacking
PS PG	Lateral Support Systems
PS PS	Pump Stations: Sewage
PS S	Reinstatement
PS TA	Road Signs
PS TB	Road Markings

PSA GENERAL (SABS 1200A)**PSA 3 MATERIALS (SUBCLAUSE 3.1)****PSA 3.1 Approval of Material**

Amend subclause 3.1 to read as follows:

The Engineer will take samples from stockpiles of proposed construction materials on site. Approval will not be granted for samples delivered direct to the Engineer's office. The onus is on the Contractor to provide recent test results on all commercially obtained material to the Engineer at least 14 days prior to its intended use in the works.

The Contractor shall be responsible for the cost of all failures on test samples and control testing.

PSA 3.3 Storage of Materials

Rubber articles, including pipe insertion or joint rings, shall be stored in a suitable shed and kept away from sunlight, oil or grease. Living accommodation shall not be used for the storage of materials.

Large items not normally stored in a building shall be neatly stacked or laid out on suitable cleared areas on the Site. Grass or vegetation shall not be allowed to grow long in the storage areas and the material shall be kept free of dust and mud and be protected from stormwater. Pipes shall be handled and stacked in accordance with the manufacturer's recommendations, special care being taken to avoid stacking to excessive heights and placing over hard objects. uPVC pipes shall be protected from direct sunlight by suitable covers.

Every precaution shall be taken to keep cement dry and prevent access of moisture to it from the time it leaves the place of manufacture until it is required for use on the Site. Bags of cement which show any degree of hydration and setting shall be removed from the Site of the Works and replaced at the Contractor's own expense.

PSA 3.4 Handling of Materials

Materials should be handled with proper care at all times. Under no circumstances may materials be dropped from vehicles. Large pipes shall be lifted or lowered only by means of suitable hoisting equipment.

The Engineer shall have authority to reject any material which in his opinion have been handled / transported in a manner which may have led to damage.

PSA 5 CONSTRUCTION**PSA 5.51 SURVEY****PSA 5.1.1 Setting Out of the Works (Subclause 5.1.1)**

Survey beacons will be pointed out to the Contractor at the commencement of the contract. It is the Contractor's sole responsibility to ensure that these beacons as pointed out to him on site are not covered, disturbed or damaged.

All costs for the reinstatement of such beacons are to be borne by the Contractor.

The Contractor shall check the levels of all reference pegs, benchmarks and line pegs well before he intends constructing any portion of the Works influenced thereby. The Engineer shall be informed in writing of any discrepancy discovered in the positions or levels immediately on discovery but in any event at least 7 days before such construction is due to start. If no written statement is received from the Contractor, it will be held that the Contractor has satisfied himself that the positions and levels of the reference pegs and bench marks are correct.

Any errors or suspected discrepancies with regard to levels, co-ordinates, dimensions or other related aspects of the existing or proposed works that come to light during the execution of the Works shall be brought to the attention of the Engineer without delay.

PSA 5.2 Watching, Barricading, Lighting (Subclause 5.2)

From the time any portion of the Works commences, until the end of the Contract Period, the Contractor shall be responsible for protecting the property of the Employer and all persons having business on the Site from anything dangerous or likely to cause damage or injury. The Contractor shall take all practical precautions to avoid nuisance or inconvenience to the owners or occupiers of properties near to the Site and to the public generally whilst carrying out the Works and shall at all times keep the Site clean and in a safe and satisfactory condition.

PSA 5.4 Dealing With Existing Services (Subclause 5.4)

The Contractor shall locate all existing services according to available records and mark them as known services. Where a known service is damaged because of the Contractor's negligence, the service shall be repaired in accordance with the requirements of the Authority concerned. All costs of repair will be for the Contractor's account and the Contractor shall indemnify the Employer against any claims that may be made.

Before the commencement of any excavation the Contractor shall inform the staff of the Employer works directly concerned with the control of the service, shall acquaint himself with the position of the service and shall have readily available the equipment necessary to shut-off and isolate any such service. The Contractor shall liaise with the staff on site for the necessary temporary closure of any services during construction.

The Contractor shall not commence work on any section until proper arrangements have been made for supervision of the work and have informed the Engineer accordingly.

The Contractor shall carefully excavate on the line of the trench up to 2,0m in both directions from the indicated position for the purpose of locating and establishing the exact position of the services under the supervision of the Engineer's Representative and the authority involved.

Alterations to existing services carried out by the Contractor shall be executed as expeditiously as possible in order to minimize the disruption of the service. After completing the relocation of existing services and acceptance thereof by the Engineer the pipes shall be joined up and parts that have become redundant shall be removed. This work shall be carried out in such a way that the least possible inconvenience is caused to the user of the service.

In cases where other authorities must alter or remove existing services, the Contractor shall make the necessary arrangements and assist the relevant authority.

Electric cables

The Contractor shall at all times accept that all underground and overhead cables are live and that the Cape Winelands District Municipality, SpoorNet or Eskom in its capacity as either the Employer or the owner of the service shall not be held liable for injury or death of any person due to live electric cables exposed under the Contract.

The Contractor shall advise the Council's representative and the Engineer 7 days in advance of the actual date on which he proposes to excavate near any electric cable.

The Contractor shall not commence any construction in the vicinity of electric cables before contacting the Council regarding the procedures for construction in the vicinity of electric cables.

Where excavation takes place approximately parallel to and within 3 m of an 11 kV cable the method of excavation shall be as approved by the Council or service authority.

The Contractor shall not excavate with mechanical equipment closer than 3 m to the estimated position of any cable but shall expose the cable by hand excavation under proper supervision. When so instructed, the Contractor shall backfill cable trenches to the density ordered.

The Contractor shall be responsible for the temporary support and realignment of cables as necessary.

Subsequent to the training it is anticipated that the people will be employed on various aspects of the project.

PSA 5.9 ACCOMMODATION OF TRAFFIC

PSA 5.9.1 General

The Contractor shall take all precautions necessary to programme and conduct his construction operations in such a manner that inconvenience and annoyance to public traffic, property owners and road users is kept to a minimum. The Contractor shall also ensure that safety requirements are strictly enforced at all times.

The contractor shall be responsible for maintaining the existing road surface both within the works area and the advance warning and termination areas in a safe and trafficable condition for the duration of the contract.

The accommodation of traffic shall remain the Contractor's responsibility notwithstanding any arrangements with the local authority to the contrary.

It is a condition of this contract that traffic is accommodated taking into account the provisions of the latest edition of the South African Road Traffic Signs Manual (SARTSM). The latest version for use in the accommodation of traffic is volume 2, chapter 13 of the June 1999 edition. Copies of this publication are available from Government Printers – Monica Chiloane – Tel: (012) 334

4508 e-mail: monica.chiloane@gpw.gov.za

The programming of the works shall conform to the applicable requirements of PSA 5. The contractor shall comply with these requirements as well as the guidelines set out below when planning the accommodation of traffic during construction.

PSA 5.9.2 Overall Requirements

The contractor shall so plan his work such that the traffic, at all times, is free flowing during the construction period.

An accommodation of traffic method statement shall be formally submitted to the Engineer for approval, and once approved, will form the basis of all related construction activities. It will be closely linked to the Contractors programme and will be monitored accordingly.

The Contractor shall liaise with and co-operate with the relevant Traffic authorities wherever the works affect existing roads. The Contractor shall sign an indemnity clearing the Local or Roads Authority, as applicable, from all liabilities in respect of excavations and works on or adjacent to trafficked roads.

PSA 5.9.3 Barricades and Signs

The Contractor shall provide and erect all necessary barricades, barriers, signs, signals, lights, etc., with posts as necessary, which shall be maintained in good condition and he shall provide a sufficient number of watchmen and flagmen where required and shall take all necessary precautions for the protection of the work and for the safety of the travelling public. All traffic signs and the control of traffic shall be in accordance with the drawings issued and provisions of SARTSM.

When additional electrically operated flashing type amber warning lamps are required, these shall be measured and paid for separately.

Drums shall not be used to demarcate traffic lanes. Delineators and barricades as allowed for in SARTSM Vol 2 Chapter 13 shall be used.

PSA 7 TESTING**PSA 7.1 Testing Principles (Subclause 7.1)****a) Testing of roadwork rehabilitation and the like**

Every completed section of rehabilitated road shall be subject to check testing by the Contractor. Once the Contractor has satisfied himself with the standard of his works, the Engineer will be requested to perform acceptance testing for the particular section. When giving notice, the Contractor shall provide the Engineer with the results of his own check testing indicating that the work is to specification, or advise the Engineer in writing that, although no tests have been performed, he is confident that the specification has been met.

Failure by the Contractor to notify the Engineer or to provide the required information or, where specified, to perform the required test, will be grounds to exempt the Employer from payment for the associated work and for all subsequent work which would be affected by the failure of the work to be tested.

The Engineer will be under no obligation to the Contractor to perform the tests. If the Engineer elects not to perform a particular test after notification by the Contractor, he will issue the Contractor with a written instruction to proceed with the relevant works without the acceptance test being performed. The Engineers Representative will agree at commencement of the contract minimum acceptance testing requirements for each component of work.

Nothing contained in this clause will relieve the Contractor of his responsibilities under the specification or in any way limit the tests which the Engineer may call for or perform in terms of the specification.

PSA 7.2 Approved Laboratories (Subclause 7.2)

Acceptance testing of materials used in the construction of the works shall be done by a laboratory appointed by the Engineer and approved by the Employer. The Engineer requires twenty-four hours' notice from the Contractor in order to perform the relevant acceptance test. Failure by the Contractor to notify the Engineer or to provide the required information or, where specified, to perform the required test, will be grounds to exempt the Employer from payment for the associated work and for all subsequent work which would be affected by the failure of the work to be tested.

All acceptances testing by the Engineer shall be paid by the Contractor. The costs of such tests which meet the specification requirements will be reimbursed to the Contractor in the monthly payment certified.

A Provisional Sum has been provided in Section 1 of the Schedule of Quantities to allow for the cost of such acceptance testing. Acceptance testing will in no way relieve the Contractor from his own check testing.

The Contractor shall make due allowance for testing procedures in his construction programme.

PSA 7.5 As-Built Information

As the works are progressing, the Contractor shall mark on a special set of drawings after

checking the information, all as built details and submit them to the Engineer's Representative for approval on a regular basis. Payment shall be made under "Contractual Requirements."

The Certificate of Completion as well as the corresponding payment certificate shall only be issued upon the submission of all the as-built information.

PSA 8 MEASUREMENT AND PAYMENT

PSA 8.4 Scheduled time-related items

PSA 8.4.6 Standing Time Cost

- a) plantUnit: Sum per working days
- b) labourUnit: Sum per working days
- c) other resources (to be specified by Contractor)Unit: Sum per working days

The tendered sum for each item shall include full compensation for all standing time costs at the specified resource of whatever nature and approved by the Engineer, which are not recoverable by way of the provision made in PSA 8.2.5 for the adjusted payment of time related items.

For the purposes of calculating the total standing time cost, a working week shall be held to consist of five working days and a working day of 9 hours.

Payment for the partial standing of any of the scheduled resources for a day or part thereof or the standing of a complete resource for a part day, will be made pro rata in proportion to an appropriate factor assessed by the Engineer.

The amount by which the standing time cost is adjusted shall be subject to the contract price adjustment formula as defined in the conditions of contract.

The Contractor shall take note that this payment item shall only apply to delays, which in the opinion of the Engineer, are incurred as a result of riot, commotion, politically motivated sabotage and acts of terrorism or disorder outside the Contractor's control.

This item shall also apply to standing time incurred as a result of labour boycotts, except that only sub-items (a) and (c), as applicable, will be paid where the Contractor did not pay his labour for the time boycotted. Costs for delays incurred for all other circumstance shall be treated as provided for in the conditions of contract.

The provision of the clause shall in no way prejudice the right of either the Employer or the Contractor to determine the contract items of the provisions of clause 57 of the general conditions of contract.

The Contractor shall take note that no payment will be considered for additional cost of time lost for any daily removal of plant and equipment from the site, any additional costs incurred in protecting his plant and site establishment, or loss incurred in respect of damage to construction plant, equipment and materials supplied and the works.

In the event that GCC 6.8.1 becomes applicable, the time on which such penalties are calculated shall be reduce by the total standing time approved by the Engineer.

PS A 8.5: Provisional sums stated by Engineer.....Unit: Prov. Sum

Payment will be made in accordance with actual invoiced costs and a percentage mark-up to cover the contractor's overheads, profit and attendance.

PSA 8.7 DAYWORK

Daywork will be paid according to the rates provided in the schedule. Specific items are scheduled in the Schedule of Quantities.

PSA8 9 OCCUPATIONAL HEALTH AND SAFETY (PROVISIONAL)**PSA8.9.1 Health And Safety Requirements Unit : Sum**

The rate shall cover all costs pertaining to the provision and maintenance for the duration of the contract of the health and safety measures required in terms of Clause 5 (Principle Contractor and Contractor) of the Construction Regulations (2014) of the Occupational Health and Safety Act. No other sum shall be paid in this respect and Tenderers must therefore ensure that adequate provision has been allowed for.

The rate shall cover all costs pertaining to the provision of the health and safety plan as required in the Construction Regulations (2014). The rate shall include for all risk assessments required as well as for the development and implementation of safe work procedures and method statements. No other sum shall be part in the respect and Tenderers must therefore ensure that adequate provision has been allowed for.

The rate shall also cover all cost pertaining to the provision and/or collection of data (drawn, design, materials, operation and maintenance manuals, ect) to be contained in the file operation with other parties, compilation and maintenance of the file during the duration of contract and the handling over of the file to the Client on completion of the contract. No other sum shall be paid in this respect and Tenderers must therefore ensure the adequate provision has been allowed for.

PSC SITE CLEARANCE**PSC3 MATERIALS****PSC3.1 Disposal Of Material**

Replace subclause C3.1 with the following:

The Contractor shall make his own arrangements for the provision of a suitable place to dispose of waste material obtained from clearing and grubbing, operations.

No cleared material may be stockpiled within the operational areas the site and it will be the Contractor's duty to remove this material to a spoil dump as soon as possible after clearing.

PSC 5.1 Clearing

Add to subclause 5.1:

Only areas which are required specifically for the activities of the contract shall be cleared. Payment shall be in accordance with 8.2.1 except that all cleared non-reusable material shall be removed to a spoil dump off site chosen by the contractor.

PSC 5.9 TAKE DOWN EXISTING FENCING**PSC 5.9.1 Clearance**

The contractor to remove existing wire mesh fencing as directed by the Engineer and as shown on the drawings,

PSC 8 SCHEDULED ITEMS

PSC8.2.1 Clear and Grub.....Unit: m²

PSC8.2.2 Remove and grub large trees and tree stumps of girth.....Unit: No
a) Over 1m and up to and in 2M

PSC8.2.5 Take down existing fences.....Unit : m

PSDB EARTHWORKS (PIPE TRENCHES)**PSDB 1.2 General**

Variable trenching conditions are expected. It is possible that groundwater conditions in the deep trenches could be problematic to ensure additional precautions in dealing with water.

PSDB 3.5(b) Backfill Materials (Subclause 3.5b)

Add the following to DB 3.5(b):

All pipe trenches underlying road ways shall be backfilled with sand complying with the requirements as specified in PSD1.1.

PSDB 3.6.1 Subbase And Base (Subclause 3.6.1)

Substitute DB 3.6.1 with the following:

Where trenches cross or run adjacent to surfaced roads and paved areas, of which the surfaces are scheduled to be reinstated, the material excavated from the existing base and/or subbase pavement layer(s) shall be set aside and used in the reconstruction of the subbase layer. Where applicable, a new material complying with the requirements of SABS 1200 MF shall be used in the reconstruction of the base layer. Any shortfall in material for the reconstruction of the subbase layer shall be made up by the use of material complying with the requirements of SABS 1200 ME.

PSDB 5.1.2.1 Stormwater, Seepage And Dewatering : Throughout The Works (Subclause 5.1.2.1)

In addition to the Contractor's responsibilities for dealing with water, the Engineer may order the Contractor to place a crushed stone bedding layer (minimum thickness 150 mm) on the trench bottom.

Should the trench bottom conditions remain unstable due to the nature of the soil and the degree of saturation, the Engineer may order the Contractor to install a filter fabric on the trench bottom prior to the provision of the stone layer. The specified bedding material shall then be used to bed the pipe.

The Contractor will only be paid for providing and laying the stone bedding layer and filter fabric after receipt of a written order to do so from the Engineer.

PSDB 5.2 Minimum Base Widths (Subclause 5.2)

A side allowance of 300 mm shall be applicable to pipes of diameter less than 700mm.

PSDB 5.7 Compaction (Subclause 5.7)**PSDB 5.7.1 Areas Not Subject to Traffic Loads (Subclause 5.7.1)**

This shall not apply.

PSDB 5.7.2 Areas Subject to Traffic Loads (Subclause 5.7.2)

The provisions of subclause 5.7.2 with regard to compaction of trenches shall be applicable to all trenches. Sand backfilling shall be provided and compacted to 100 percent Modified AASHTO maximum density where trenches cross road ways.

PS DB 5.9: REINSTATEMENT OF SURFACES

PS DB 5.9.4: Bitumen Roads: Subbase and Base

Add the following to DB 5.9.4:

Any additional imported material required for the reinstatement of selected layers, subbase or base shall comply with the requirements of the relevant standardised and/or project specifications.

PSDB 8 MEASUREMENT AND PAYMENT**PSDB 8.3 Scheduled Items****PS DB 8.3.2: Excavation****PSDB8.3.2 Hand Excavation and Backfill Unit : m³**

Add the following as subclause DB 8.3.2:

The provisions of DB 8.3.2(b) shall apply for hand excavation.

Payment shall only be made if so ordered by the Engineer.

PS DB 8.3.2 (a): Excavate in materials for trenches, backfill, compact and dispose of surplus Material.....Unit: m

Add the following to D 8.3.2 (a):

The depth of excavation in street reserves and other areas shall be measured from the final finished level to the invert level of the pipe.

The rates for trench excavations for subsoil drains must also include any actions needed to deal with any water in the excavations, as well as loading and transportation of material to a spoil site, spoiling levelling and compacting the material to 90% (100% for sand) of Mod.AASHTO at a spoil site as described in Part C3.3.

The rates shall also provide for the fact that the excavation width in sand will be wider than normal.

In the case of subsoil drains, this rate must allow for the supply of suitable free draining sand from above the geotextile up to 200 mm below the surface level.

PSDB8.3.5 Existing Services That Intersect or Adjoin a Pipe Trench**PSDB8.3.5 a) Services that intersect a trenchUnit: No**

Add the following to DB 8.3.5(a)

Existing services with a depth of cover exceeding 300 mm, measured from the bottom of excavation to the top of the existing service shall not be measured and paid for. There will be distinguished between existing erf connection.

The rate shall also allow the following costs:

- I. Sufficient photos have to be taken of existing services and handed over to the Engineer before they are being crossed, if there is a possibility of a difference in opinion over the condition of those services, especially on private property.
- II. If such a service is damaged, it has to be repaired to its original condition or if possible to a standard agreed to in writing with the relevant owner. This agreement has to be approved by the Engineer.
- III. If such a service is removed, it has to be replaced as per original.

PSDB8.3.5 b) Services that adjoin a trenchUnit: No

Add the following to DB 8.3.5 (b)

The unit “number” will only be used for services such as poles and trees.

No payment will be made for overhead services that do not rest directly on the ground except where allowance is made for this in the schedule or quantities.

Existing services that rest directly on the ground e.g. poles, tress, walls and structures and handled in the same way as underground services, but the axis of the service will be determined as follows:

The vertical axis is defined as the nearest side or corner of the existing structure to the excavation, measured at the point where the structure and natural ground level intersect.

The horizon axis will be at the point where the structure and the natural ground level intersect. In this instance, where the excavation falls above the 45° line but within 1, 0 meter horizontally from the structure, the service will also be measured as an adjoining service approved by the Engineer.

There will be distinguished between existing trunk services and existing erf connection.

PSDB 8.3.6.1: Reinstate road surfaces, complete with all courses..... Unit: m²

The layerworks to be allowed for under this item are as follows below. The costs of the imported material to be used in terms of PS DB 3.6.1 and PS DB 5.9.4, and for surfacing to be included in this rate are:

For Roads : Wearing Course 30mm Medium Continuously Graded Asphalt

Base Course 150mm Natural Gravel (G3) base, compacted
to 98% Modified AASHTO

Subbase 125mm Natural Gravel (G5) base, compacted to 95% Modified
AASHTO

Subgrade 300mm© Selected Subgrade (G7), compacted to 100% if sand or 95%
Modified if non-sand

For sidewalks Wearing Course 60mm Interlocking Concrete Paver

Base Course 100mm Natural Gravel (G5) base, compacted
to 95% Modified AASHTO

Subgrade 150mm Selected Subgrade (G7), compacted
to 100% if sand or 95% Modified if non-sand

Should the layerworks for reinstatement at certain locations be changed, on instruction by the Engineer to suit the existing, the rate will be adjusted accordingly.

PSDB8.3.8 Dealing with Water

The cost of dealing with water as specified in Subclause PSDB5.1.2.1 will be held to have been included in the tendered sums.

- 2) 19mm stone below pipes.....Unit : m³

Where the use of a layer of crushed stone in the trench bottom has been authorised by the Engineer, it will be measured by volume calculated according to length multiplied by the minimum base width and specified thickness.

The tendered rate shall cover the cost of preparation of the trench bottom to accommodate the layer of stone, the supply and placing of the layer of stone over at least the specified width and all related activities in order to produce a stable platform.

- 3) Geotextile filter fabricUnit : m²

Where the Engineer has authorised the use of geotextile filter fabric, this shall be measured by area as:

width x nett length

where the width shall be the full or half-width supplied by the manufacturer which conforms closest to (the specified minimum base width + 2 x height of bedding + min. 150mm overlap).

The tendered rate shall include the cost of supply, placing and losses as a result of overlaps and over excavated trench widths.

PSG CONCRETE (STRUCTURAL)**PSG 3: MATERIAL****PSG 3.2: CEMENT****PSG 3.2.2: Alternative types of cement**

Replace the contents of the subclause with the following:

"Only approved cement from a recognised supplier in the industry will be accepted. Should the contractor wish to use any other type of cement, he shall obtain the Engineer's prior written approval (see 8.1.3.2 and 8.1.3.3)".

PSG 3.2.3: Storage of cement

Cement shall not be kept in storage for more than 10 weeks without the Engineer's permission.

PSG 3.4.3: Storage of aggregates

Where aggregates of differing chloride content are stockpiled on the site, strict control shall be exercised over their use for differing classes of concrete.

PSG 3.4: AGGREGATES**PSG 3.4.1: Aggregate Specification**

Add the following to PS G3.4.1:

The fineness modulus of the sand must be between 1.7 and 2.8 with a standard deviation of not more than 0.1.

PSG 3.4.4: Alkali-aggregate reaction

Malmesbury hornfels (shale) shall not be used in conjunction with high alkali cement in concrete in any part of the Works. For the purposes of this clause, a high alkali cement is one in which the equivalent alkali content ($\text{Na}_2\text{O} + 0.658 \text{ K}_2\text{O}$) exceeds 0.60 % by mass of the cement.

In order to ensure that the above requirement is met, the Contractor may elect to use an aggregate other than Malmesbury hornfels, that complies with the requirements of SABS 1083. Alternatively, if the Contractor chooses to use Malmesbury hornfels, he shall comply with the following requirements regarding the cement:

- a) Before commencing any particular section of the structure, the Contractor shall ensure that he has enough cement that is not a high alkali cement to complete the section.
- b) Certificates stating the alkali content of each delivery of cement to the Site shall be supplied by the Contractor. These certificates shall be based on tests carried out at a laboratory approved by the Engineer. The cost of testing, including sampling, transporting of samples, and issuing of certificates, shall be borne by the Contractor.
- c) The Contractor shall be entitled to use an approved brand of cement as a means for ensuring

that the permissible alkali content is not exceeded. The Contractor shall make allowance for the higher price of such approved brand, if he chooses to use this method.

- d) High alkali cement delivered to the Site shall be rejected, and the cost of its removal and replacement with cement with acceptable alkali content shall be borne by the Contractor.

PS 09 WOVEN TAPE CELLULAR LATTICE STRUCTURE GEOTEXTILE (OR GEOCELLS)

Supply and installation of 100mm thick woven tape cellular lattice structure geotextile filled with 5 Mpa concrete. Concrete to be included in rate.

PS 09.1 Construction

- a) Geocells to be constructed from the base section upwards to the channel crest. Geocells to be spread out on the base and slopes by means of sufficiently weighted sandbags and rope used to stretch the geocells to their functioning position.
- b) It is recommended that a long bar / rod be used to tension long sections of geo-cells at a time (to be weighted down by sandbags filled with fine graded materials to the Engineers approval).
- c) 10MPa Concrete to be placed inside the cells only once sufficiently taut / tensioned.
- d) **Steel pegs and binding wire may NOT be used for rigging of the geo-cells.**
- e) It is essential that the Contractor ensures that the cells are rigged extremely taut. Rigging strings are not to be omitted. Rigging and weighting of the cells are required to prevent collapse of the cells during filling, to prevent the cells floating on the concrete and to ensure an intimate contact of the cells with the base.
- f) Geocells to be 100mm thick, not be used in conditions that exceed their design specifications and shall be UV resistant.

PS 19 PERIMETER FENCE: CONCRETE PALISADE FENCING

Supply and install 2400mm high concrete palisade fence complete with corner post, strain posts, stays foundation excavation and concrete foundations.m

PS 22 PERIMETER FENCE GATES

Supply and install new 12m wide heavy duty non-motorized sliding gates as per drawing, including sliding rail concreted in-situ, stand posts and guide posts complete. To suit Fence.
.....sum

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)

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

List the drawings here

C3.5.2 STANDARD DRAWINGS

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

Dwg No	Description	Date of Issue	
38570	Ring Manholes	February	1990
38571	Brick Manhole Details	February	1990
38572	Stormwater Inlet Details	February	1990
38573	Stormwater Inlet Special Details	February	1990
38574	Sewer Manholes: Ramp, Backdrop and Channelling 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
38578	Concrete Median Barriers	February	1990
38579	Vehicular and Pedestrian Scoops	February	1990
38580	Concrete Bollard and Steel Guard Rail	February	1990
38581	Retaining Wall, PC Steps, Staircase, Cable Ducts and Headwalls	February	1990
38582	Precast Concrete Fencing and Aluminium Gates	February	1990
38583	Wire Mesh Fence and Gate Details	February	1990
38584	Standard Hydrant Thrust Blocks and Trenches	February	1990
38585	Water Connections, Pipework and Fittings	February	1990
38586	DP & TC Manholes - Rectangular	February	1990
38587	DP & TC Manholes - "L" Shaped	February	1990
38588	DP & TC Manholes - "T" Shaped	February	1990
38589	DP & TC Cable Ducts and Junction Box Details	February	1990
43120	Typical Details of Grid Inlets	February	1990

C3.6: ANNEXURES

C3.6.1 Insert as required or “There are no Annexures”

PART C4: SITE INFORMATION

C4.1 LOCALITY PLAN

Insert Locality plan here

C4.2 CONDITIONS ON SITE

There is no specific geotechnical information or other site information.

C4.3 TEST RESULTS

There are no specific test results.