



DEPARTMENT
TECHNICAL SERVICES
DIRECTORATE
eThekwini Water Services
DIVISION
CUSTOMER SERVICES

PROCUREMENT DOCUMENT : [Infrastructure \(GCC 2015\)](#)

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

Contract No: 35023 – 5W

Contract Title: Water metering project for eThekwini Municipality area of supply for a period of 36 months.

Estimated CIDB: Grade: **7** Class: **CE**

CLARIFICATION MEETING AND QUERIES

Clarification Meeting: [Compulsory Clarification Meeting](#)

Meeting Location: Boardroom 103, 03 Prior Road, Durban 4001 on 19th October 2026 at
Date, Time: 11:00.

Queries can be addressed to: Name: Zlungile Memela

The Employer's Agent's: Tel: 031-322 8568

Representative: Email: Zlungile.memela@durban.gov.za

Bidders are requested to submit email queries related to the bid. All email queries are to be submitted by 2026-10-29 and Emailed questions & answers will be consolidated and posted on eTenders/Municipal website/Ethekwini Supplier Portal for the benefit of all Tenderers by 2026-11-05.

TENDER SUBMISSION

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](#)

Closing Date/ Time: [13/11/2026](#) at [11h00](#)

JDE Submission: An **electronic submission** is also to be made via the eThekwini Municipality **JDE System (ESP Module)**

JDE Queries
Contact:

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

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

Issued by:

ETHEKWINI MUNICIPALITY

Deputy Director: CUSTOMER SERVICES

Date of Issue: [09/10/2026](#)

Version: 01/12/2025

FOR OFFICIAL USE ONLY

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

INDEX to PROCUREMENT DOCUMENT

TENDER PART	Part T1	TENDERING PROCEDURES		Page
		T1.1	Tender Notice and Invitation to Tender	
		T1.1.1	Tender Notice and Invitation to Tender	2
		T1.1.2	Notes to Tenderers	6
		T1.1.3	Information Regarding the eThekweni JDE System	4
		T1.2	Tender Data	
		T1.2.1	Standard Conditions of Tender	8
		T1.2.2	Tender Data (<i>applicable to this tender</i>)	17
		T1.2.3	Additional Conditions of Tender	27
		RETURNABLE DOCUMENTS		Page
	Part T2	T2.1	List of Returnable Documents	34
		T2.2	Returnable Schedules, Forms and Certificates	36

CONTRACT PART	Part C1	AGREEMENT AND CONTRACT DATA		Page
		C1.1	Form of Offer and Acceptance	
		C1.1.1	Offer	73
		C1.1.2	Acceptance	74
		C1.1.3	Schedule of Deviations	75
		C1.2	Contract Data	
		C1.2.1	Standard Conditions of Contract.....	76
		C1.2.2	Contract Data.....	76
		C1.2.3	Additional Conditions of Contract	82
	Part C2	PRICING DATA		Page
		C2.1	Pricing Assumptions / Instructions.....	85
		C2.2	Bill of Quantities (separate page numbering system).....	87
	Part C3	SCOPE OF WORK		Page
		C3.1	Project Description and Scope of Contract.....	116
		C3.2	Project Specifications	Error!
		C3.3	Standard Specifications	Error!
		C3.4	Particular Specifications	Error!
		C3.5	Contract and Standard Drawings	Error!
		C3.6	Annexures	Error!
	Part C4	SITE INFORMATION		Page
		C4.1	Locality Plan	Error!
		C4.2	Conditions on Site.....	Error!
		C4.3	Test Results	Error!

PART T1: TENDERING PROCEDURES

T1.1.1: TENDER NOTICE AND INVITATION TO TENDER

Tenders are hereby invited for the works to investigate, maintain or replace faulty and obsolete municipal water meters, to assist in resolving unread, incorrect or unlocated meters including the re-siting of meters that are inside properties.

Subject	Description	Tender Data
Employer	The Employer is the eThekweni Municipality as represented by: Deputy Director: CUSTOMER SERVICES	C.1.1.1
Tender Documents	Documentation is to be downloaded from the National Treasury's eTenders website or the eThekweni Municipality Website : • 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 7 CE (or higher).	C.2.1.2
Meeting Type	Compulsory Clarification Meeting	C.2.7
Meeting Details	Boardroom 103, 03 Prior Road, Durban 4001 on 19th October 2026 at 11:00.	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: Zlungile Memela Tel: 031-322 8568 Email: Zlungile.memela@durban.gov.za Bidders are requested to submit email queries related to the bid. All email queries are to be submitted by 2026-10-29 and Emailed questions & answers will be consolidated and posted on eTenders/Municipal website/Ethekweni Supplier Portal for the benefit of all Tenderers by 2026-11-05.	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 (ESP 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 13/11/2026 , at or before 11h00 .	C.2.15
Evaluation of Tender Offers	The 90/10 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

Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts	Not Applicable
Standard for Developing Skills through Infrastructure Contracts	Applicable

T1.1.2: NOTES TO TENDERERS

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

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

GENERAL

- 1) The words BID, TENDER, QUOTATION, and REQUEST FOR QUOTATION (RFQ) are interchangeable throughout this procurement document.
- 2) **JDE-ESP Module** refers to the eThekweni Supplier Portal module on the eThekweni Municipality JDE System. Refer to Part T1.1.2.

eThekweni 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 eThekweni Supply Chain Management Policy requires suppliers/ service providers/ contractors to be registered on the **eThekweni Municipality's Supplier Portal**.

In the event of the Tenderer not being registered on the eThekweni 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 Database.

The following is to be noted:

- The information for registration as in the possession of the eThekweni 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** as stated in the **Tender Data**, unless the Municipality is notified, in writing, of anything to the contrary.

The eThekweni Municipality reserves the right to request confirmation from Tenderers of tender validity at any time during the twelve (12) month period.

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 the time of 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. 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, unless otherwise stated, 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. If applicable, Contractors are required to include these goals in the plans and pricing when they submit their tender bids.

T1.1.3: INFORMATION REGARDING THE ETHEKWINI JDE SYSTEM

This Part (T1.1.3) is for information purposes only.

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

1) General

eThekweni 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 **eThekweni Municipality Supplier Portal**, and the **eThekweni 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.

eThekweni 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.

eThekweni 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 the use of the **JDE System**:

General Queries:

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

Technical Queries:

- Kgopotso Maja Tel: 031 322 3808
 Email: kgopotso.maja@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.

Should the **Tender Offer** be required in “**hard copy**” format, the submission is to be delivered 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 (EtheKweni Supplier Portal (JDE-ESP) 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>

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** (T1.2.2) 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

with aspects of the proposed work, services or supply and raise questions. Details of the meeting(s) are stated in the Tender Data.	
C.2.8 Seek clarification 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.	C.2.12 Alternative tender offers 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.
C.2.9 Insurance 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.	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. C.2.12.3 An alternative tender offer must only be considered if the main tender offer is the winning tender.
C.2.10 Pricing the tender offer 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. C.2.10.2 Show VAT payable by the employer separately as an addition to the tendered total of the prices. 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. 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.	C.2.13 Submitting a tender offer 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. 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. 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.
C.2.11 Alterations to documents 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.	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.
	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

employer's address and identification details stated in the <i>Tender Data</i>, as well as the tenderer's name and contact address.	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>.
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.	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.
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>.	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).
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.	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".
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>.	C.2.17 Clarification of tender offer after submission Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted. <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>
C.2.14 Information and data to be completed in all respects Accept that tender offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the employer as non-responsive.	C.2.18 Provide other material
C.2.15 Closing time	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.
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.	Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in
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.	
C.2.16 Tender offer validity	

	the employer's request, the employer may regard the tender offer as non-responsive.		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.2.18.2	Dispose of samples of materials provided for evaluation by the employer, where required.		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
C.2.19	Inspections, tests and analysis		c) in the opinion of the Employer, acceptance of the material change would compromise the outcome of the prequalification process.
	Provide access during working hours to premises for inspections, tests and analysis as provided for in the Tender Data .		
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		
	Include in the tender submission or provide the employer with any certificates as stated in the Tender Data .	C.3.4	Opening of tender submissions
C.3	The employer's undertakings	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.3.1	Respond to requests from the tenderer	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 BBBEE status level and time for completion for the main tender offer only.
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.3.4.3	Make available the record outlined in C.3.4.2 to all interested persons upon request.
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 procurement process and deny any such request if as a consequence:		

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 **eThekweni Municipality** as represented by:
Deputy Director: CUSTOMER SERVICES

C.1.2 Tender documents:

The Tender Documents issued by the Employer comprise:

- 1) The Procurement Document comprising of the PARTS as listed in the “INDEX” on page 1.
- 2) [EXCEL Bill of Quantities file, issued separately.](#)
- 3) **Drawings**, issued separately from this document, or bound in Section C3.4: “Particular Specifications”.

Electronically downloaded documentation is obtainable from the National Treasury’s **eTenders Website** and/ or the **eThekweni Municipality Website** at URL:

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

Tenderers are to regularly check both web sites for the downloadable documentation.

C.1.4 Communication and employer’s agent:

The Employer’s Agent is:

Name: Lindokuhle Mnguni Pr. Tech Eng
 Tel: 031 311 8056
 eMail: Lindokuhle.mnguni@durban.gov.za

The Employer’s Agent’s Representative is:

Name: Zlungile Memela
 Tel: 031 322 8568
 eMail: Zlungile.memela@durban.gov.za

The Tenderer’s contact details, as indicated on **Returnable Document “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.1.6.2 Procurement procedures:

The competitive negotiation procedure 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 “Certificate of Attendance at Clarification Meeting / Site Inspection”** signed by the Employer’s Agent or their representative at the meeting.
- (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 “Compulsory Enterprise Questionnaire”** (section 1.5) and **Returnable Document “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 not 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 “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 **7CE** 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 **7CE** 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 **7CE** 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.2.5 Reference documents:

Tenderers are to obtain their own copies of:

- 1) The **Conditions of Contract** identified in Section C1.2.1.1.
Tenderers/ Contractors are required to obtain their own copies.
- 2) The **Specifications** identified in Section C3.3.1.
Tenderers/ Contractors are required to obtain their own copies.
- 3) The following acts, regulations, policies, and standards referred to in this document, including but not limited to:
 - 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 as amended).
 - The Preferential Procurement Policy Framework Act (PPPFA), and the PPPFA Regulations (November 2022).
 - The Amended Construction Sector Code (Government Gazette No.41287) applicable to B-BBEE compliance measurement.
 - SANS 1921:2004 – Construction and Management Requirements for Works Contract, Parts 1-3.
 - South African Road Traffic Signs Manual - Vol 2: Chapter 13: Roadworks Signing.
 - 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 eThekweni Policy documents referenced in the Tender Documents.

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:

Clarification Meeting Type: Compulsory Clarification Meeting
Boardroom 103, 03 Prior Road, Durban 4001 on 19th October 2026 at 11:00.

Bidders are requested to submit emailed queries related to the bid. All emailed queries are to be submitted to the **Employer's Agent's Representative** (refer to C.1.4) by 2026/10/29. Emailed questions and answers will be consolidated and posted on the eTenders/Municipal website for the benefit of all tenderers by 2026/11/05.

In the event of a Compulsory Clarification Meeting the Tenderer's representative(s) must be able to clearly convey the discussions at the meeting to the person(s) responsible for compiling the entity's tender offer.

If an attendance register is applicable, Tenderers must sign the attendance register and provide the name of the tendering entity.

Tenderers are referred to Clause C.2.1.1(a).

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. : **35023- 5W**
- Contract Title : **Water metering project for eThekweni Municipality area of supply for a period of 36 months.**

Tender Offers are also to be **SUBMITTED ELECTRONICALLY** (uploaded) on the eThekweni Municipality **JDE System** (EtheKweni Supplier Portal (ESP 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 (**P**ortable **D**ocument **F**ormat) 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 (ESP 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.

Parts of each tender offer communicated on paper shall be submitted as an original, plus 1 copies.

C.2.15 Closing date and time:

The closing time is:

- **Date : Friday, 13 November 2026**
- **Time : 11h00**

The **delivery of the hard copy AND** the completion of the requirements on the **JDE System (ESP 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** (original validity period) 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.

The eThekweni Municipality reserves the right to request confirmation from Tenderers of tender

validity at any time during the twelve (12) month period.

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.

1) SARS Tax Compliance Status – PIN Issued

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

2) Central Supplier Database (CSD)

Reference is to be made to **Returnable Document “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>).

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

The date of obtaining the CSD printout is to be indicated on the printout and should be on or after the date of advertising of this tender.

3) CIDB Registration (if applicable)

Reference is to be made to **Returnable Document “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/>).

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>)

The date of obtaining the CIDB printout(s) is to be indicated on the printout and should be on or after the date of advertising of this tender. The Tenderer’s registration with the CIDB must be reflected as “Active” as at the date of tender closing.

Failure to comply with 1), 2), and 3) above will result in the tender offer being deemed non-responsive.

4) B-BBEE Status Level of Contribution Certificate

Tenderers are referred to **Returnable Document “MBD 6.1: Preference Points Claim”** for the B-BBEE Certificate requirements. Notwithstanding the completion of **Returnable Document “MBD 6.1: Preference Points Claim”**, should a B-BBEE Status Level of Contribution Certificate not 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 (Built Environment Professionals (BEP) and Contractors). 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, or a BEP with a total annual revenue of less than R1.8 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 National Treasury’s **eTenders-Website** and/ or the **eThekweni 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 eThekweni 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.”

Any interactions between the Tenderer and the Employer in terms of this clause will be conducted through the Employer’s Agent (or Representative) as identified in **Tender Data C.1.4**.

C.3.11 Evaluation of Tender Offers:

Functionality

FUNCTIONALITY will be used in the evaluation of tenders.

FUNCTIONALITY will be evaluated to determine the responsiveness of tenders received. The minimum score for FUNCTIONALITY is **70 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 **90/10** preference points system, for requirements with a Rand value above R50,000,000 (all applicable taxes included), will be applied. The Formula used to calculate the **Price Points (max. 90)** 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 or 90 points is allocated for price on the following basis:

90/10 Procurement System

$$P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

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**.

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 (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: **70%**

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	90/10
Race: Black	Equals 0%	0
	Between 0% and 51%	2
	Greater or equal to 51% and less than 100%	4
	Equals 100%	6

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

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

Goal Weighting: **30%**

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

Location	90/10
Not in South Africa	0
South Africa	1
Kwa Zulu Natal	2
eThekweni Municipality	4
Maximum Goal Points:	4
Proof of claim as declared on MBD 6.1 (1 or more of the following will be used in verifying the Tenderer's status) • CSD report	

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.
- 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.
- The Tenderer has not:
 - Abused the Employer's Supply Chain Management System; or
 - Failed to perform on any previous contract and has been given a written notice to this effect.
- The 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 eThekweni Supply Chain Management Policy.

In terms of Section 49 of the EtheKweni 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 **R6131.00** (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:

EThekweni Metropolitan Municipality
First National Bank (FNB)
Account Number: 631-6574-6331
Reference Number: **35023 – 5W**

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

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		45
Project Organogram and Experience of Key Staff	Contracts Manager	10
	Civil Technician	10
	Lead Artisan Plumber	15
Meter investigation and installation Methodology		15
CPG Implementation Plan		5
Maximum possible score for Functionality (M_s)		100

The minimum number of evaluation points for Functionality is **70**. Only those Tenderers who achieve the minimum number of Functionality evaluation points (or greater) will be eligible to have their tenders further evaluated. It is a strict requirement that the Tenderer submit proof of award and completion for each contract listed for experience by attaching a signed award and certificate of Completion of Works, see returnable on pages 37 to 86 of this tender document. Failure to do so will lead to the conclusion that the work was not successfully completed, and **NO** points will be awarded for any relevant experience claimed for that contract.

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 the below indicators and scores allocated according to the following tables as per evaluation schedule. Each project can only be used **ONCE** either for submission under the installation of meters or laying/repairing pipes criteria.

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 Institute of Technology. No Technical N Diploma will be accepted from a FET for contracts manager or artisan plumber.

Experience of Tendering Firm

45 points

(Tendering Firm's experience of successfully completed contracts over the last **10 years** involving the installation of mechanical water meters (small and bulk diameter sizes):

5 points for each contract up to a maximum of:

25 points

Completed Contracts	Number of points awarded
0	0
1	5
2	10
3	15
4	20
5	25

(Tendering Firm's experience of successfully completed contracts over the last **10 years** involving the laying and repairing of water pipes of different pipe materials:

4 points for each contract up to a maximum of:

20 points

Completed Contracts	Number of points awarded
0	0
1	4
2	8
3	12
4	16
5	20

Tendering firms Experience

Only those Tenderers that can provide proof of verifiable experience, in works of a similar nature, within the past 10 years, will have their tenders evaluated in terms of Clause C.3.11.

Tenderers are to **complete and sign** the submission forms **for each** experience submission, as included in **Returnable Form: “Functionality: Experience of Tenderer”**.

Failure to comply will invalidate the associated experience submission.

Should there be insufficient verified evidence for any specific submission that experience submission **WILL** be deemed invalid.

Table 1: Experience Requirement

Contract(s), with works of a similar nature, within the past 10 years, where the value of **each completed work** is at least 50% of the tender value submitted for this tender on the **Form of Offer (C1.1.1)**.

A minimum of 5 contracts, with works of a similar nature, within the past 10 years, each with a value of 50% of the tender value submitted for this tender on the **Form of Offer (C1.1.1)**.

Table 2: Works of a Similar Nature

- Projects of a similar nature that will be considered will be one, or a combination of, the following types of projects in the water infrastructure sector:
 - Site investigation & documentation
 - Pipework and fittings linked to water meters installations
 - Reinstatement and site restoration of pipework
 - Material Management & reporting regarding water meter replacement and pipework installation
 - Earthworks & trenching regarding water mains installation
 - Water meter installation & consolidation
- Each project must consist of at least three of the following elements:

- Locating existing infrastructure - Pipe fabrication & jointing, cutting & connections linked to meter replacement - Pressure testing - Meter Installation & chamber construction - Community engagement - Traffic control - Material handling - Retrofitting of water meters - Service proving	- Shoring & safety - dealing with underground services (watermains, sewers, electricity, communication infrastructure) - Surface reinstatement - Site management - Water meter replacements dealing with underground services (watermains, sewers, electricity, communication infrastructure)
- Projects that will be <u>excluded</u> are: - road rehabilitation projects - the construction of gravel roads - Construction of houses & buildings - consultation/planning/investigation projects and investigation or data collection projects. - road maintenance projects - Multi storey structural engineering - Stormwater drainage construction - Pump station projects - Construction of reservoirs	

Table 3: Functionality Documentation Requirements

Note: an “X” in this table indicates that the associated documentation should be provided, if applicable.	Works as Sub-Contractor		Works as Main Contractor	
	Current Contracts	Completed Contracts	Current Contracts	Completed Contracts
Proof of Sub-Contract Agreement See Note 1.	X	X	-	-
Letter of Award OR Form of Offer & Acceptance See Note 2.	-	-	X	X
Most recent Payment Certificate (with Quantities <u>summary</u>), OR Invoice (with Quantities summary). See Note 3.	X	-	X	-
Final Payment Certificate (with Quantities <u>summary</u>), OR Invoice (with Quantities summary). See Note 4.	-	X	-	X
Completion Certificate. See Note 5.	-	-	-	X
Scope of Work See Note 6.	To be indicated on individual experience submission form			

NOTES (for Table 3)

1. To include the names of the parties, the managing entity's name, the effective dates, and the signature(s) page, all pertaining to the agreement. Agreements not signed will be deemed unresponsive.

2. Issued by the Client / Employer.

3. Proof of the most recent payment received from the Main Contractor or Client/ Employer, OR the most recent submitted INVOICE. Whichever of these documents is submitted, a summary breakdown of quantities is to accompany that document.

4. Proof of the final payment received from the Main Contractor or Client/ Employer, OR the most recent submitted INVOICE. Whichever of these documents is submitted, a summary breakdown of quantities is to accompany that document.

5. Issued by the Client/ Employer.

6. If executed as a Sub-Contractor, the Scope-of-Work should be indicative of only the works carried out by the Sub-Contractor, and not the overall Scope-of-Work of the main contract.

If executed as a Main Contractor, the overall contract Scope-of-Work is to be indicated.
Scope-of-Work to be indicated on individual experience submission form.

Qualifications and Experience of Key Personnel to be employed on the Contract

1.
1. **Contracts Manager**..... **10 points**

Qualifications and Registrations:

Minimum 5 years relevant experience as a contracts manager and a relevant Degree or ND/NHD qualification. (1 point per year of relevant experience)

5 points

Specific Experience:

Experience in the position of Contract/ Project Manager on contracts for the construction of the following from start to full completion and hand over:

- Installation of mechanical water meters
- Pipe laying/ pipe replacement or pipe repairing projects

1 point per project up to a maximum of:

5 points

Completed Projects	Number of points awarded
0	0
1	1
2	2
3	3
4	4
5	5

2.
2. **Contract Civil Technician**..... **10 points**

Qualifications and Registrations:

Minimum 5 years relevant experience in meter installation/ pipe laying projects and a Degree/NHD/Diploma in Civil engineering (1 point per year of relevant experience)

5 points

Experience in the position of Civil Technician on contracts for the construction of the following from start to full completion and hand over:

- Installation of mechanical water meters
- Pipe laying/ pipe replacement or pipe repairing projects

1 point per project up to a maximum of:

5 points

Completed Project	Number of points awarded
0	0
1	1
2	2
3	3
4	4
5	5

3.
3. **Lead Artisan Plumber**..... **15 points**

Specific Experience:

Experience in the position of Lead Artisan Plumber (Minimum 5 years relevant experience) on contracts for the installation of mechanical water meters of different diameters.

Qualifications and Registrations:

Minimum 5 years relevant experience and a VALID Trade test qualification. Plumber experience will be calculated from date of qualification. All qualifications and experience will be verified accordingly. (1 point per year of relevant experience).

5 points

2 points per project up to a maximum of:

10 points

Completed Projects	Number of points awarded
0	0
1	2
2	4
3	6
4	8
5	10

Water meter investigation and installation Methodology.....15 points

Adequacy and completeness of tenderer's construction methodology, indicating all construction activities, resources (i.e. labour and plant), cash flows indicated.

- No information was provided, or submission of no substance/irrelevant information provided. 0 points
- Construction methodology does not cover 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). 3 points
- Construction methodology covering 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). 6 points
- Construction methodology covering 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). **Plus:** shows critical path with logical linking of tasks/ activities. 9 points
- Construction methodology covers all the applicable individual activities which are in an acceptable sequence, with appropriate durations, 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) and demonstrate that the tenderer clearly understand the Scope of Work. **Plus:** shows critical path with logical linking of tasks/ activities, shows detailed activity and resources breakdown, cashflow included. 12 points
- Construction methodology covers all the applicable individual activities which are in an acceptable sequence, with appropriate durations, 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) and gives real confidence that the tenderer will add value to the project. **Plus:** shows critical path with logical linking of tasks/ activities, shows detailed activity and resources breakdown, cashflow included. Detailed plant and equipment resource breakdown included. 15 points

<u>Quality Assurance & Control Plan</u>	5 points
• Contractor has no documented Q.A. Plan	0 points
• Contractor has own documented Q.A. plan of an acceptable standard	2 points
• Contractor has own documented Q.A plan that shows proper planning of ensuring all water meters installed are checked for compliance with checklist/questionnaire attached.	3 points
• Contractor has own documented Q.A plan that shows proper planning of ensuring all water meters installed are checked for compliance with checklist/questionnaire attached and shows plan for future planned quality check	5 points

CPG Implementation plan.....**5 points**

Specific Requirements: a Contract Participation Goal (CPG) implementation plan is a mandatory socio-economic strategy. It must outline how the main contractor will sub-contract a designated percentage of the work (minimum 30%) to local Targeted Enterprises (SMMEs).

Implementation plan is to ensure it speaks to the below criteria.

- Subcontracting Strategy & SMME Work Packages1 Point
- Skills Transfer, Training, and Mentorship Program.....1 Point
- Risk Mitigation & Community Unrest Management Strategy.....1 Point
- CPG Monitoring, Cash Flow, and Reporting Framework.....1 Point
- Health & Safety (OHS) Integration for Subcontractors.....1 Point

MAXIMUM SCORE FOR TENDER EVALUATION = 100 points

THRESHOLD FOR FUNCTIONALITY = 70 points

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

T2.2.1	Compulsory Enterprise Questionnaire	39
T2.2.2	Certificate of Attendance at Clarification Meeting/ Site Inspection	40
T2.2.3	MBD 4: Declaration of Interest	41
T2.2.4	MBD 5: Declaration for Procurement Above R10 Million	43
T2.2.5	Contracts Awarded by Organs of State in the past 5 years	44
T2.2.6	MBD 6.1: Preference Points Claim Form (SCM Policy Section 52.5)	45
T2.2.6	MBD 6.1: Preference Points Claim Form (SCM Policy Section 52.7)	48
T2.2.8	MBD 8: Declaration of Bidder's Past SCM Practices	55
T2.2.9	MBD 9: Certificate of Independent Bid Determination	57
T2.2.10	Declaration of Municipal Fees	59
T2.2.11	Contractor's Health and Safety Declaration	60
T2.2.12	CSD Registration Report	62
T2.2.13	CIDB Registration and Status	63
T2.2.14	Joint Venture Agreements (if applicable)	64
T2.2.15	Record of Addenda to Tender Documents	65
T2.2.16	Experience of Tenderer	66

Technical or Functionality Evaluation

T2.2.16	Experience of Tenderer	57
T2.2.17	Proposed Organisation and Staffing	65
T2.2.18	Key Personnel	66
T2.2.19	Experience of Key Personnel	67
T2.2.20	Preliminary Programme	68
T2.2.21	Construction Approach, Methodology, and Quality Control	69
T2.2.22	Schedule of Proposed Subcontractors	70

T2.2.23	Plant and Equipment	71
T2.2.24	Contractor's Health and Safety Plan	72
 Contract Part: The Tenderer is required to complete following forms:		
C1.1.1	Form of Offer	73
C1.2.2.2	Data to be Provided by Contractor	76
C2.2	Bill of Quantities	85

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, failing which the tender submission will be deemed non-responsive.

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 **35023 – 5W** 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.

Circle Applicable

3.8 Are you presently in the service of the state?

YES

NO

If yes, furnish particulars:

.....

3.9 Have you been in the service of the state for the past twelve months?

YES

NO

If yes, furnish particulars:

3.10 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid?

YES

NO

If yes, furnish particulars:

3.11 Are you, aware of any relationship (family, friend, other) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid?

YES

NO

If yes, furnish particulars:

3.12 Are any of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state?

YES

NO

If yes, furnish particulars:

3.13 Are any spouse, child or parent of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state?

YES

NO

If yes, furnish particulars:

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract ?

YES

NO

If yes, furnish particulars:

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

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

Failure to complete this form in full, sign, and return with the tender submission will result in the tender offer being deemed non-responsive.

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

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. The audited annual financial statements are to be included at the back of the tender submission.	
2.0 Do you have any outstanding undisputed commitments for municipal services towards any municipality for more than three months or any other service provider in respect of which payment is overdue for more than 30 days? 2.1 If NO, this serves to certify that the bidder has no undisputed commitments for municipal services towards any municipality for more than three months or other service provider in respect of which payment is overdue for more than 30 days. 2.2 If YES, provide particulars. 	
3.0 Has any contract been awarded to you by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract? 3.1 If YES, provide particulars. SEE Returnable Document "Contracts Awarded by Organs of State in the Past 5 Years"	
4.0 Will any portion of goods or services be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality / municipal entity is expected to be transferred out of the Republic? 4.1 If YES, provide particulars. 	

Failure to complete this form in full, sign, and return with the tender submission will result in the tender offer being deemed non-responsive.

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, and, 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 52.7: 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 90/10** 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 90 points is allocated for price on the following basis:

90/10 Procurement System

$$P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

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.

90/10 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)	6	
RDP Goal: The promotion of South African owned enterprises.	4	
Total CLAIMED Points (maximum 10)	10	

5.0 REMEDIES 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 (reference is to be made to the Specific Goals stated in the Tender Data: C.3.11).

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
-----	----

		Circle Applicable	
		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?		
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?		
4.5.1	If YES, provide particulars.		
.....			
.....			

Failure to complete this form in full, sign, and return with the tender submission will result in the tender offer being deemed non-responsive.

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

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 **35023- 5W**
Water metering project for eThekweni Municipality area of supply for a period of 36 months.

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.

Failure to complete this form in full, sign, and return with the tender submission will result in the tender offer being deemed non-responsive.

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.

Failure to complete this form in full, sign, and return the required documents with the tender submission will result in the tender offer being deemed non-responsive.

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

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.11 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.

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.

SUPPLIER IDENTIFICATION			
Supplier number		Have Bank Account	
Is supplier active?		Total annual turnover	
Supplier type		Financial year start date	
Supplier sub-type		Registration date	
Legal name		Created by	
Trading name		Created date	
Identification type		Edit by	
Government breakdown		Edit date	
Business status		Restricted Supplier	
Country of origin		Restriction Last Verification Date	
South African company/CC registration number			

Tenderers are to include, at the back of their tender submission, a printout of their CSD Registration Report. The date of obtaining the CSD printout is to be indicated on the printout and should be on or after the date of advertising of this tender.

Failure to comply will result in the tender offer being deemed non-responsive.

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

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.13 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.**

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. The date of obtaining the CIDB Registration and Status printout is to be indicated on the printout and should be on or after the date of advertising of this tender.

Failure to comply will result in the tender offer being deemed non-responsive.

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

NAME (Block Capitals):

Date

SIGNATURE:

T2.2.14 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: **35023 – 5W** 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:

CIDB #:

Represented by (name):

Signature:

Partner/ Member 2

Entity Name:

Ownership Interest in JV %:

CSD Registration:

CIDB #:

Represented by (name):

Signature:

Partner/ Member 3

Entity Name:

Ownership Interest in JV %:

CSD Registration:

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**TENDERERS EXPERIENCE #1- for the installation of water meters**Reference is to be made to the **Tendering Procedures: T1.2.3.4.**

Tenderer's CIDB Grade:	1*	2*	3*	4*	5*	6*	7*	8*	9*	Experience as a:	Sub-Contractor*	Main Contractor*																			
Client / Employer:	Entity Name:																														
	Contact Name:																														
	Contact Tel:																														
	Contact Cell:																														
	Contact email / other:																														
Client OR Main Contractor's Details Should the Employer's reasonable attempts to make contact, to verify the information provided, fail (for whatever reason) this experience submission will be considered invalid.	Entity Name:																														
	Contact Name:																														
	Contact Tel:																														
	Contact Cell:																														
	Contact email / other:																														
Contract Details	Contract Number:																														
	Contract Title:																														
	Has this Contract been completed?									Y*	N*																				
Tendered Value (Contract Sum) OR Sub-Contract Value:	R									Final Contract Price OR Final Value of Sub-Contract:																					
<table border="1"> <tr> <td colspan="2">Commencement Date:</td> <td>d</td><td>d</td><td>m</td><td>m</td><td>2</td><td>0</td><td>y</td><td>y</td> </tr> <tr> <td colspan="2">Completion Date (if applicable):</td> <td>d</td><td>d</td><td>m</td><td>m</td><td>2</td><td>0</td><td>y</td><td>y</td> </tr> </table>												Commencement Date:		d	d	m	m	2	0	y	y	Completion Date (if applicable):		d	d	m	m	2	0	y	y
Commencement Date:		d	d	m	m	2	0	y	y																						
Completion Date (if applicable):		d	d	m	m	2	0	y	y																						
Contract Scope-of-Work (Description of Works components)	If available in hard copy, the Scope-of-Work can be attached. Only include the Scope-of-Work (contract description) and a description of works involved.																														

Failure to complete this form, sign, and return with the tender submission will result in the experience submission being deemed unacceptable.

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:

EXPERIENCE SUBMISSION #2- for the installation of water metersReference is to be made to **Tendering Procedures: T1.2.3.4.**

Tenderer's CIDB Grade:	1*	2*	3*	4*	5*	6*	7*	8*	9*	Experience as a:	Sub-Contractor*	Main Contractor*									
Client / Employer:	Entity Name:																				
	Contact Name:																				
	Contact Tel:												-								
	Contact Cell:												-								
	Contact email / other:																				
Client OR Main Contractor's Details Should the Employer's reasonable attempts to make contact, to verify the information provided, fail (for whatever reason) this experience submission will be considered invalid.	Entity Name:																				
	Contact Name:																				
	Contact Tel:												-								
	Contact Cell:												-								
	Contact email / other:																				
Contract Details	Contract Number:																				
	Contract Title:																				
	Has this Contract been completed?									Y*	N*	Commencement Date:		d	d	m	m	2	0	y	y
												Completion Date (if applicable):		d	d	m	m	2	0	y	y
Tendered Value (Contract Sum) OR Sub-Contract Value:									R		Final Contract Price OR Final Value of Sub-Contract:		R								
Contract Scope-of-Work (Description of Works components)										If available in hard copy, the Scope-of-Work can be attached. Only include the Scope-of-Work (contract description) and a description of works involved.											

Failure to complete this form, sign, and return with the tender submission will result in the experience submission being deemed unacceptable.

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:

EXPERIENCE SUBMISSION #3- for the installation of water metersReference is to be made to **Tendering Procedures: T1.2.3.4.**

Tenderer's CIDB Grade:	1*	2*	3*	4*	5*	6*	7*	8*	9*	Experience as a:	Sub-Contractor*	Main Contractor*									
Client / Employer:	Entity Name:																				
	Contact Name:																				
	Contact Tel:												-								
	Contact Cell:												-								
	Contact email / other:																				
Client OR Main Contractor's Details Should the Employer's reasonable attempts to make contact, to verify the information provided, fail (for whatever reason) this experience submission will be considered invalid.	Entity Name:																				
	Contact Name:																				
	Contact Tel:												-								
	Contact Cell:												-								
	Contact email / other:																				
Contract Details	Contract Number:																				
	Contract Title:																				
	Has this Contract been completed?									Y*	N*	Commencement Date:		d	d	m	m	2	0	y	y
												Completion Date (if applicable):		d	d	m	m	2	0	y	y
Tendered Value (Contract Sum) OR Sub-Contract Value:									R		Final Contract Price OR Final Value of Sub-Contract:		R								
Contract Scope-of-Work (Description of Works components)										If available in hard copy, the Scope-of-Work can be attached. Only include the Scope-of-Work (contract description) and a description of works involved.											

Failure to complete this form, sign, and return with the tender submission will result in the experience submission being deemed unacceptable.

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:

EXPERIENCE SUBMISSION #4 - for the installation of water metersReference is to be made to **Tendering Procedures: T1.2.3.4.**

(Where required, in the shaded areas, clearly mark selection with an "X" or circle applicable)

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

Contract Scope-of-Work (Description of Works components)	If available in hard copy, the Scope-of-Work can be attached. Only include the Scope-of-Work (contract description) and a description of works involved.

Failure to complete this form, sign, and return with the tender submission will result in the experience submission being deemed unacceptable.

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:

EXPERIENCE SUBMISSION #5 - for the installation of water metersReference is to be made to **Tendering Procedures: T1.2.3.4.**

Tenderer's CIDB Grade:	1*	2*	3*	4*	5*	6*	7*	8*	9*	Experience as a:	Sub-Contractor*	Main Contractor*									
Client / Employer:	Entity Name:																				
	Contact Name:																				
	Contact Tel:												-								
	Contact Cell:												-								
	Contact email / other:																				
Client OR Main Contractor's Details Should the Employer's reasonable attempts to make contact, to verify the information provided, fail (for whatever reason) this experience submission will be considered invalid.	Entity Name:																				
	Contact Name:																				
	Contact Tel:												-								
	Contact Cell:												-								
	Contact email / other:																				
Contract Details	Contract Number:																				
	Contract Title:																				
	Has this Contract been completed?									Y*	N*	Commencement Date:		d	d	m	m	2	0	y	y
												Completion Date (if applicable):		d	d	m	m	2	0	y	y
Tendered Value (Contract Sum) OR Sub-Contract Value:										R	Final Contract Price OR Final Value of Sub-Contract:										R
Contract Scope-of-Work (Description of Works components)										If available in hard copy, the Scope-of-Work can be attached. Only include the Scope-of-Work (contract description) and a description of works involved.											

Failure to complete this form, sign, and return with the tender submission will result in the experience submission being deemed unacceptable.

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: _____

EXPERIENCE SUBMISSION #1- for the laying and testing of water pipes (All materials)Reference is to be made to the **Tendering Procedures: T1.2.3.4.**

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

Contract Scope-of-Work (Description of Works components)	If available in hard copy, the Scope-of-Work can be attached. Only include the Scope-of-Work (contract description) and a description of works involved.

Failure to complete this form, sign, and return with the tender submission will result in the experience submission being deemed unacceptable.

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:

EXPERIENCE SUBMISSION #2 - for the laying and testing of water pipes (All materials)Reference is to be made to the **Tendering Procedures: T1.2.3.4.**

Tenderer's CIDB Grade:	1*	2*	3*	4*	5*	6*	7*	8*	9*	Experience as a:	Sub-Contractor*	Main Contractor*																																			
Client / Employer:	Entity Name:																																														
	Contact Name:																																														
	Contact Tel:																																														
	Contact Cell:																																														
	Contact email / other:																																														
Client OR Main Contractor's Details Should the Employer's reasonable attempts to make contact, to verify the information provided, fail (for whatever reason) this experience submission will be considered invalid.	Entity Name:																																														
	Contact Name:																																														
	Contact Tel:																																														
	Contact Cell:																																														
	Contact email / other:																																														
Contract Details	Contract Number:																																														
	Contract Title:																																														
	Has this Contract been completed?									Y*	N*																																				
Tendered Value (Contract Sum) OR Sub-Contract Value:	R									Final Contract Price OR Final Value of Sub-Contract:																																					
<table border="1"> <thead> <tr> <th colspan="2">Commencement Date:</th> <th>d</th> <th>d</th> <th>m</th> <th>m</th> <th>2</th> <th>0</th> <th>y</th> <th>y</th> </tr> <tr> <th colspan="2">Completion Date (if applicable):</th> <th>d</th> <th>d</th> <th>m</th> <th>m</th> <th>2</th> <th>0</th> <th>y</th> <th>y</th> </tr> </thead> <tbody> <tr> <td colspan="2"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												Commencement Date:		d	d	m	m	2	0	y	y	Completion Date (if applicable):		d	d	m	m	2	0	y	y																
Commencement Date:		d	d	m	m	2	0	y	y																																						
Completion Date (if applicable):		d	d	m	m	2	0	y	y																																						
<table border="1"> <thead> <tr> <th colspan="12">Contract Scope-of-Work (Description of Works components)</th> </tr> </thead> <tbody> <tr> <td colspan="12"> If available in hard copy, the Scope-of-Work can be attached. Only include the Scope-of-Work (contract description) and a description of works involved. </td> </tr> <tr> <td colspan="12" style="height: 100px;"></td> </tr> </tbody> </table>												Contract Scope-of-Work (Description of Works components)												If available in hard copy, the Scope-of-Work can be attached. Only include the Scope-of-Work (contract description) and a description of works involved.																							
Contract Scope-of-Work (Description of Works components)																																															
If available in hard copy, the Scope-of-Work can be attached. Only include the Scope-of-Work (contract description) and a description of works involved.																																															

Failure to complete this form, sign, and return with the tender submission will result in the experience submission being deemed unacceptable.

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: _____

EXPERIENCE SUBMISSION #3 - for the laying and testing of water pipes (All materials)Reference is to be made to the **Tendering Procedures: T1.2.3.4.**

Tenderer's CIDB Grade:	1*	2*	3*	4*	5*	6*	7*	8*	9*	Experience as a:	Sub-Contractor*	Main Contractor*																							
Client / Employer:	Entity Name:																																		
	Contact Name:																																		
	Contact Tel:																																		
	Contact Cell:																																		
	Contact email / other:																																		
Client OR Main Contractor's Details Should the Employer's reasonable attempts to make contact, to verify the information provided, fail (for whatever reason) this experience submission will be considered invalid.	Entity Name:																																		
	Contact Name:																																		
	Contact Tel:																																		
	Contact Cell:																																		
	Contact email / other:																																		
Contract Details	Contract Number:																																		
	Contract Title:																																		
	Has this Contract been completed?									Y*	N*																								
Tendered Value (Contract Sum) OR Sub-Contract Value:	R									Final Contract Price OR Final Value of Sub-Contract:																									
<table border="1"> <tr> <td colspan="2">Commencement Date:</td> <td>d</td><td>d</td><td>m</td><td>m</td><td>2</td><td>0</td><td>y</td><td>y</td> </tr> <tr> <td colspan="2">Completion Date (if applicable):</td> <td>d</td><td>d</td><td>m</td><td>m</td><td>2</td><td>0</td><td>y</td><td>y</td> </tr> </table>												Commencement Date:		d	d	m	m	2	0	y	y	Completion Date (if applicable):		d	d	m	m	2	0	y	y				
Commencement Date:		d	d	m	m	2	0	y	y																										
Completion Date (if applicable):		d	d	m	m	2	0	y	y																										
<table border="1"> <tr> <td colspan="12"> Contract Scope-of-Work (Description of Works components) If available in hard copy, the Scope-of-Work can be attached. Only include the Scope-of-Work (contract description) and a description of works involved. </td> </tr> <tr> <td colspan="12" style="height: 100px;"></td> </tr> </table>												Contract Scope-of-Work (Description of Works components) If available in hard copy, the Scope-of-Work can be attached. Only include the Scope-of-Work (contract description) and a description of works involved.																							
Contract Scope-of-Work (Description of Works components) If available in hard copy, the Scope-of-Work can be attached. Only include the Scope-of-Work (contract description) and a description of works involved.																																			

Failure to complete this form, sign, and return with the tender submission will result in the experience submission being deemed unacceptable.

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: _____

EXPERIENCE SUBMISSION #4 - for the laying and testing of water pipes (All materials)Reference is to be made to the **Tendering Procedures: T1.2.3.4.**

Tenderer's CIDB Grade:	1*	2*	3*	4*	5*	6*	7*	8*	9*	Experience as a:	Sub-Contractor*	Main Contractor*								
Client / Employer:	Entity Name:																			
	Contact Name:																			
	Contact Tel:																			
	Contact Cell:																			
	Contact email / other:																			
Client OR Main Contractor's Details Should the Employer's reasonable attempts to make contact, to verify the information provided, fail (for whatever reason) this experience submission will be considered invalid.	Entity Name:																			
	Contact Name:																			
	Contact Tel:																			
	Contact Cell:																			
	Contact email / other:																			
Contract Details	Contract Number:																			
	Contract Title:																			
	Has this Contract been completed?									Y*	N*	Commencement Date:	d	d	m	m	2	0	y	y
												Completion Date (if applicable):	d	d	m	m	2	0	y	y
Tendered Value (Contract Sum) OR Sub-Contract Value:									R		Final Contract Price OR Final Value of Sub-Contract:									
Contract Scope-of-Work (Description of Works components)										If available in hard copy, the Scope-of-Work can be attached. Only include the Scope-of-Work (contract description) and a description of works involved.										

Failure to complete this form, sign, and return with the tender submission will result in the experience submission being deemed unacceptable.

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: _____

EXPERIENCE SUBMISSION #5 - for the laying and testing of water pipes (All materials)Reference is to be made to the **Tendering Procedures: T1.2.3.4.**

Tenderer's CIDB Grade:	1*	2*	3*	4*	5*	6*	7*	8*	9*	Experience as a:	Sub-Contractor*	Main Contractor*	
Client / Employer:	Entity Name:												
	Contact Name:												
	Contact Tel:												
	Contact Cell:												
	Contact email / other:												
Client OR Main Contractor's Details Should the Employer's reasonable attempts to make contact, to verify the information provided, fail (for whatever reason) this experience submission will be considered invalid.	Entity Name:												
	Contact Name:												
	Contact Tel:												
	Contact Cell:												
	Contact email / other:												
Contract Details	Contract Number:												
	Contract Title:												
	Has this Contract been completed?									Y*	N*		
Tendered Value (Contract Sum) OR Sub-Contract Value:	R									Final Contract Price OR Final Value of Sub-Contract:			R
Contract Scope-of-Work (Description of Works components) If available in hard copy, the Scope-of-Work can be attached. Only include the Scope-of-Work (contract description) and a description of works involved.													

Failure to complete this form, sign, and return with the tender submission will result in the experience submission being deemed unacceptable.

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: _____

T2.2.17 PROPOSED ORGANISATION and STAFFING

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts.

The Tenderer should **also** 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.

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.

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:

T2.2.21 CONSTRUCTION APPROACH, METHODOLOGY, AND QUALITY CONTROL

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts.

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: _____

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

[illegible]

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.

Date _____

T2.2.23 PLANT and EQUIPMENT

Refer to Additional Conditions of Tender: T1.2.3.4 for Functionality Points evaluation prompts.

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.

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 as per the functionality points prompts.

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: **35023 – 5W**

Contract Title: Water metering project for eThekweni Municipality area of supply for a period of 36 months.

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 from date of installation per meter**.

1.1.1.14 The **time for achieving Practical Completion**, from the Commencement Date is **156 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: **Customer Services Technical**

1.2.1.2 The address of the Employer is:
Physical: eThekweni Water and Sanitation Unit, 3 Prior Road, DURBAN, 4001
Postal: eThekweni Water and Sanitation Unit, P O Box 1038, DURBAN, 4000
Telephone: 031 311 86 03
E-Mail: Aaron.Mfunda@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: Lindokuhle Mnguni
Physical: eThekweni Water and Sanitation Unit, 14 Scott Road, DURBAN, 4001
Postal: eThekweni Water and Sanitation Unit, P O Box 1038, DURBAN, 4000
Telephone: 031 311 80 56
E-Mail: Lindokuhle.Mnguni@durban.gov.za

1.1.1.26 The **Pricing Strategy** is by **Re-measurement Contract**.

3.2.3 The Employer's Agent shall obtain the **specific approval of the Employer** before executing any of his functions or duties according to the following Clauses of the General Conditions of Contract:

- 6.3: Council approval in order to authorize any expenditure in excess of the Tender Sum plus **15%** contingencies.

4.11.1 To carry out and complete the works, the Contractor shall employ a competent Civil Engineering Technician and Lead artisan plumber as part of the key staff. It is a requirement for the Contractor's Civil Engineering Technician and Lead artisan plumber to each have a minimum of

5 years relevant experience including experience on projects of a similar nature. The CV's of the Contractor's Civil Engineering Technician and Lead artisan plumber 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 50% of this tender's value, and had a comparable Scope of Work in terms of technical requirements and operations.
- ii) "experience" implies experience on projects of a similar nature.
- iii) "accredited degree / diploma" implies a minimum 3-year qualification within the built environment, from a registered University or Institute of Technology.

5.3.1 The **documentation required** before commencement with Works execution are:

- Health and Safety Plan (refer to Clause 4.3)
- Security (refer to Clause 6.2)
- Insurance (refer to Clause 8.6)

5.3.2 The **time to submit the documentation** required before commencement with Works is **28 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 5000 (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 **12 months from date of each installation hand-over to the municipality**.

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: **Not Required**.

6.10.3 **Retention Money:** Delete the word “selected”.

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

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

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

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

8.6.1.1.2 The **value of Plant and materials** supplied by the Employer to be included in the insurance sum: **R 2,000,000.00**.

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

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

8.6.1.3 The limit of indemnity for **liability insurance**: **R 10,000,000.00**.

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 20,000**.

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

Third Party Insurance (Public Liability)

- Minimum amount for any one occurrence, unlimited as to the number of occurrences, for the period of the contract, inclusive of the maintenance period: **R 5,000,000.00**
- Consequential loss to be covered by policy: **Yes**
- Liability section of policy to be extended to cover blasting: **Nil.**
- Maximum excess per claim or series of claims arising out of any one occurrence: **R 25 000.00**

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: **R 2 000 000.00.**
- Maximum first excess: **R 25 000.00**

Insurance of Works

- Minimum amount for additional removal of debris (no damage): **R 500 000.00**
- Minimum amount for temporary storage of materials off site, excluding Contractor's own premises: **R 2 000 000.00.**
- Minimum amount for transit of materials to site: **R 25 000.00**

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. "

10.5.1 **Dispute resolution** shall be by Ad hoc adjudication.

10.5.3 The **number of members** of the Adjudication Board to be appointed: **1-3.**

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

C1.2.2.2 DATA TO BE PROVIDED BY CONTRACTOR

1.1.1.9 The legal name of Contractor is:

.....

.....

.....

.....

1.2.1.2 The Physical address of the Contractor is:

.....

.....

.....

.....

The Postal address of the Contractor is:

.....

.....

.....

.....

The contact numbers of the Contractor are:

Telephone:

Fax:

The E-Mail address of the Contractor is:

.....

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)**. 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 SUB-CONTRACTING CONTRACTOR PARTICIPATION GOAL

It is a condition of contract that the contractor must allow for a minimum of **30%** 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 Sub-Contracting Goal will be 0.5% of the contract value (excluding PC Sum items and Fixed Cost allowances) for every 1% 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 A: Employed as Local Labour for this contract only Category B: Temporarily employed by the Contractor Category C: Permanently employed by the Contractor				

- Category of Employment

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 **pages 87 to BoQ XXX**

Section A: Preliminary & General

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A1.1	SABS 1200 & PAM & C3.1	Fixed Charge and Value Related Items:				
A1.1.1	8.3.1	Contractual requirements	Sum	1		
	8.3.2 (a)	Provision of facilities on the site for the Engineer (SABS 1200 AB):				
A1.1.2	PSAB 3.2	Furnished offices	Sum	1		
A1.1.3	PSAB 3.2	Meeting room facilities	Sum	1		
A1.1.4	PSAB 3.1	Project name board	Sum	1		
A1.1.5	PS 18	Provision of secure storage sheds/storage facility for free issue items.	Sum	1		
A1.1.6	8.3.3	General responsibilities and Other fixed charge obligations	Sum	1		
A1.1.7	8.3.4	Removal of site establishment	Sum	1		
A1.2	AH	Occupational Health and Safety				
A1.2.1	PAM	The preparation of risk assessments, safe work procedures, the Health and Safety file, the Health and Safety plan, provision of Personal Protective Equipment and Clothing and any other Health and Safety matters that the contractor deems necessary	Sum	1		
A1.2.3	PEM	Complying with requirements of Environmental Management Plan	Sum	1		
A1.2.4	PS 4.4	Site security for the duration of the contract	Sum	1		
A1.3	8.4	Time-Related Items:				
A1.3.1	8.4.1	Contractual requirements	Month	36		
A1.3.2	8.4.2	Operation and maintenance of facilities on the Site for the duration of construction, except where otherwise stated:	Month	36		
A1.3.3	8.4.3	Supervision during the course of the Contract	Month	36		
A1.3.4	8.4.4	Company and Head Office Overhead Costs for the duration of the Contract	Month	36		
A1.3.5		Provision of secure storage sheds/storage facility for free issue items.	Month	36		
A1.3.6	8.4.5	Other time-related obligations	Month	36		
A1.3.7	PAM	Contractor's obligations in respect of the Occupational Health and Safety Act and Construction Regulations for the duration of the contract	Month	36		
Carried forward						

Section A: Preliminary & General

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
A1.3.8	PS 18	Storage of Free Issue Items	Month	36		
A1.3.9	PSAA 8.3.2 (b)	Communication and Public Relations	Month	36		
A1.3.10	AH 10.2	Deployment of Health and Safety Officer for the duration of the Contract	Month	36		
A.13.14	PEM	Complying with requirements of Environmental Management Plan for the duration of the contract	Month	36		
A1.3.15	PS 4.4	Site Security for the duration of the contract	Month	36		
A1.3.16	C3.1.3	Supply the services of Category A plumber who is registered as such with EWS, 2 general workers, a one-ton bakkie with a roof rack and trailer and a security team (where required)	Month	36		
A1.3.17		Contractor to ensure that all necessary equipment/plant needed is always available and in working condition e.g.: Water pump, generator, breaker, angle grinder etc.	Month	36		
A1.4	8.5	Provisional Sums:				
A1.4.1		Relocation of existing services and fences where ordered	PS	1	R150 000.00	R150 000.00
A1.4.2		Overheads, charges and profit on item 1.4.1	%	R150000.00		
A1.4.3		Provisional sum for equipment for Engineer	PS	1	R150 000.00	R150 000,00
A1.4.4		Overheads, charges and profit on item 1.4.3	%	R150000.00		
A1.4.5		Inspection of Materials by Inspectors appointed by the engineer	PS	1	R50 000 .00	R50 000,00
A1.4.6		Contractor's mark-up on Item A1.4.5	% PS	R50000.00		
A1.4.7		Provision of meter testing services as and when required 15mm – 100mm	PS	1	R750 000.00	750 000.00
A1.4.8		Contractor's mark-up on Item A1.4.7	% PS	R750000.00		
A1.4.9		Allowance for additional fittings that may be required not specified in the BOQ	PS	1	R200 000	R200 000,00
A1.4.10		Allowance for underground meter chamber (if required)	PS	1	R120 000	R120 000.00
A1.4.11		Supply and commissioning of ultrasonic water meters	PS	1	R 2 000 000.00	R2000000.00
A1.4.12		Contractor's mark-up on Item A1.4.11	% PS	R2000000.00		
A1.4.13		Supply and commissioning of Magflow water meters	PS	1	R 2 000 000.00	R2000000.00
A1.4.14		Contractor's mark-up on Item A1.4.13	% PS	R2000000.00		
Carried Forward						

Section A: Preliminary & General

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
A1.5	8.7	Dayworks				
A1.5.1		Unskilled labour	Days	60		
A1.5.2		Skilled workers - Artisan / plumber	Days	30		
A1.5.3		Foreman	Days	25		
A1.5.4		Others (tenderer to specify)	Days	25		
A1.5.5		LDV - Type (.....) Capacity - 1 ton	Days	25		
Total carried to Summary						

Section B: 15mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B1	SABS 1200 & PS & C3.1 C3.1.3	Site works Locating existing meter, liaison with consumers, conducting a thorough water test investigation, ensuring all water received by property is accounted and measurable. Compiling all relevant information and preparation for implementation.	No	1		
		Excavation and removal of existing meter installation and returning material to stores. Compliance with EWS returns procedures meter exchange procedures and accurate record keeping.	No	1		
B2	C3.1.3	Meter Assembly and Installation - Collected from EWS Stores: Collect water meter, all additional fittings and piping required, assemble (if required), and install complete as per drawing (102) including cutting into existing pipeline, preparation of both pipe edges, for new pipe work (including making good existing corrosion protection if any) consisting of: 25mmx90 degree bend with 3/4" threaded female offtake 2x3/4" dia plastic eze ball valve (fused) 2x22mm dia 90 degree pp elbow 2x3/4" tail piece 1x 15mm meter TOTAL PRICE FOR 15mm ASSEMBLY	No	1		
B3	C3.1.3	Meter Assembly and Installation - Purchased from external supplier In the event of unforeseen shortages of materials at eThekwini stores, supply the fittings indicated below, to EWS current Departmental Standards				
B3.1		25mmx90 degree bend with 3/4" threaded female offtake	No	2		
B3.2		3/4" dia plastic eze ball valve (fused)	No	2		
B3.3		22mm dia 90 degree pp elbow	No	2		
B3.4		3/4" tail piece	No	2		
B3.5		1x15mm Protector box	No	1		
B3.6		1x 15mm meter	No	1		
B3.7		16/22mm HDPE/ Polypropene pipe	m	6		
B4	PS1.3	The Contractor is to ensure that all road signs, barricades, delineators, flagmen and speed control are affected and removed on completion of different stages of the work as required.	No	1		
Carried forward						

Section C: 25mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
C1	SABS 1200 & PS & C3.1 C3.1.3	Site works Locating existing meter, liaison with consumers, conducting a thorough water test investigation, ensuring all water received by property is accounted and measurable. Compiling all relevant information and preparation for implementation.	No	1		
		Excavation and removal of existing meter installation and returning material to stores. Compliance with EWS returns procedures meter exchange procedures and accurate record keeping.	No	1		
C2	C3.1.3	Meter Assembly and Installation - Collected from EWS Stores: Collect meter from stores and all additional fittings and piping required, assemble, and install complete as per drawing (102) including cutting into existing pipeline, preparation of both pipe edges, for new pipe work (including making good existing corrosion protection if any) consisting of: 25mmx90 degree bend 22mm threaded female offtake 2x3/4" dia plastic eze ball valve (fused) 2x22mm dia 90 degree pp elbow 2x3/4" tail piece 1x25mm Protector Box 1x 25mm meter TOTAL PRICE FOR 15mm ASSEMBLY	No	1		
C3	C3.1.3	Meter Assembly and Installation - Fabricated/purchased from external supplier In the event of unforeseen shortages of materials at eThekweni stores, supply the fittings indicated below, to EWS current Departmental Standards				
C3.1		25mmx90 degree bend with 3/4" threaded female offtake	No	2		
C3.2		3/4" dia plastic eze ball valve (fused)	No	2		
C3.3		22mm dia 90 degree pp elbow	No	2		
C3.4		3/4" tail piece	No	2		
C3.5		1x25mm Protector Box	No	2		
C3.6		1x 25mm meter	No	1		
C3.7		25/28mm HDPE/Polypropene pipe	m	6		
C4	PS1.3	The Contractor is to ensure that all road signs, barricades, delineators, flagmen and speed control are affected and removed on completion of different stages of the work as required.	No	1		
Carried forward to Summary						

Section D: 40mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
D1	SABS 1200 & PS & C3.1					
	C3.1.3	Site works				
D1.1		Locating existing meter, liaison with consumers, conducting a thorough water test investigation, ensuring all water received by property is accounted and measurable. Compiling all relevant information and preparation for implementation.	No	1		
D1.2		Excavation and removal of existing meter installation and returning material to stores. Compliance with EWS returns procedures meter exchange procedures and accurate record keeping.	No	1		
D2	C3.1.3	Meter Assembly and Installation - Collected from EWS Stores:				
		Collect meter and all additional fittings and piping required from EWS stores, assemble, and install complete as per drawing (72056, sheet 1) including cutting into existing pipeline, preparation of both pipe edges, for new pipe work (including making good existing corrosion protection if any) consisting of:				
		4x40mm Threaded flange adaptors				
		4x40mm screw threaded flanges				
		2x50mm stainless steel barrel nipple				
		2x50mm x 90 deg Flanged bend one leg extended by required height (500mm, 800mm, 1m, 1.2m)				
		2x50mm Ball O Stop valves				
		1x50mm slotted Dirt Box				
		1x40mm Flow meter				
		TOTAL PRICE FOR 40mm ASSEMBLY	No	1		
D3	C3.1.3	Meter Assembly and Installation - Fabricated/purchased from external supplier				
		In the event of unforeseen shortages of materials at eThekweni stores, supply the fittings indicated below, to EWS current Departmental Standards				
D3.1		40/50mm Threaded screw flange adaptors	No	2		
D3.2		50mm stainless steel barrel nipple	No	2		
D3.3		40/50mm reducing bush	No	2		
D3.4		50mm Ball Stop valves	No	2		
D3.5		50mm slotted Dirt Box	No	1		
D3.6		40mm Flow meter	No	1		
D3.7		M16 nuts and Bolts	No	50		
D3.8		M16 washers	No	50		
D3.9		50mm gaskets	No	10		
Carried forward						

Section B: 40mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
D4	C3.1.3	Fabricate and Install 40/50mm Meter Cover Fabricate a 3mm thick steel meter cover. Cover to be powder coated/Rilsan Coated. Light blue/grey in colour. Cover will be bolted to meter flanges upon installation. An allowance slot must be catered for meter reading. A drawing will be provided at contract award date.	No	1		
D5	PS1.3	The Contractor is to ensure that all road signs, barricades, delineators, flagmen and speed control are affected and removed on completion of different stages of the work as required.	No	1		
D6	1200L C3.1.3	Pipework: Steel Pipes and Specials Supply API 5L Sch 40 steel pipe, manufacture, handle, lay, bed, joint, and disinfect the following (rates to include for supplying of all steel pipes, in-situ welding of joints and flanges where applicable, all cutting, flanges, jointing material, wastage and electrogalvanized bolts, nuts, and washers). All pipes and specials to be coated and lined with Rilsan to a minimum thickness of 300 microns.				
D6.1		50mm ND Spool Pieces Flanged both ends				
D6.1.1		400mm - 600mm	No	2		
D6.1.2		600mm - 800mm	No	2		
D6.1.3		800mm - 1000mm	No	2		
D6.1.4		1000mm - 1200mm	No	2		
B6.2		50mm ND Bends				
B6.2.1		90 Degree bends flanged both ends with 100mm extension	No	2		
D7	1200L C3.1.3	Fittings In the event of unforeseen shortages of materials at eThekweni stores, supply the fittings indicated below, to EWS current Departmental Standards				
D7.1		Adaptors, couplings and reducers				
D7.1.1		50mm copper to steel	No	1		
D7.1.2		50mm steel to steel	No	1		
D7.1.3		50mm x Table D to Table 16 Adaptor Spool	No	1		
D7.1.4		54mm x 42mm Brass Reducer	No	1		
D7.1.6		50mm x 50mm Screw Flange	No	6		
Carried forward						

Section B: 40mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
	1200L	Fittings				
	C3.1.3	In the event of unforeseen shortages of materials at eThekweni stores, supply the fittings indicated below, to EWS current Departmental Standards				
D7.2		Compression Fittings for HDPE				
D7.2.1		40mm Flange adaptor	No	1		
D7.2.2		40mm Female adaptor	No	1		
D7.2.3		40mm Male adaptor	No	1		
D7.2.4		40mm Male Bends	No	1		
D7.2.5		42mm Elbows	No	2		
D7.2.6		40mm x 110mm Male Adaptor	No	1		
D7.2.7		40mm female bends	No	2		
D7.3		Copper Fittings				
D7.3.1		54mm Copper to Male Adaptor	No	1		
D7.3.2		54mm Copper to Steel 90-degree elbow	No	1		
D7.3.3		54mm x 42mm Copper to Steel reducer	No	1		
D7.3.4		54mm F/Male Iron Adaptor	No	1		
D8		Pipe Cut to Suit on Site dimensions				
D8.1		50mm HDPE straight pipe	m	6		
Total carried to Summary						

Section E: 50mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
E1	SABS 1200 & PS & C3.1					
	C3.1.3	Site works				
E1.1		Locating existing meter, liaison with consumers, conducting a thorough water test investigation, ensuring all water received by property is accounted and measurable. Compiling all relevant information and preparation for implementation.	No	1		
E1.2		Excavation and removal of existing meter installation and returning material to stores. Compliance with EWS returns procedures meter exchange procedures and accurate record keeping.	No	1		
E2	C3.1.3	Meter Assembly and Installation - Collected from EWS Stores:				
		Collect water meter and all required fittings and piping required, assemble, and install complete as per drawing (72056, sheet 1) including cutting into existing pipeline, preparation of both pipe edges, for new pipe work (including making good existing corrosion protection if any) consisting of:				
		4x50mm Threaded screw flanges 2x50mm stainless steel barrel nipple 2x50mm x 90 deg Flanged bend one leg extended by (500mm, 800mm, 1m, 1.2m) 2x50mm Ball O Stop valves 1x50mm Dirt Box 1x50mm Flow meter TOTAL PRICE FOR 50mm ASSEMBLY	No	1		
E3	C3.1.3	Meter Assembly and Installation - Fabricated/purchased from external supplier				
		In the event of unforeseen shortages of materials at eThekweni stores, supply the fittings indicated below, to EWS current Departmental Standards				
E3.1		50mm Threaded flange adaptor to suit	No	2		
E3.2		50mm stainless steel barrel nipple	No	2		
E3.4		50mm Ball Stop valves	No	2		
E3.5		50mm Dirt Box	No	1		
E3.6		50mm Flow meter	No	1		
E3.7		M16 nuts and Bolts	No	50		
E3.8		M16 washers	No	50		
E3.9		50mm gaskets	No	10		
Carried forward						

Section E: 50mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
E4	C3.1.3	Fabricate and Install 50mm Meter Cover				
E4.1		Fabricate a 3mm thick steel meter cover. Cover to be power coated/Rilsan Coated. Light blue/grey in colour. Cover will be bolted to meter flanges upon installation. An allowance slot must be catered for meter reading. A drawing will be provided at contract award date.	No	1		
E5	PS1.3	The Contractor is to ensure that all road signs, barricades, delineators, flagmen and speed control are affected and removed on completion of different stages of the work as required.	No	1		
E6	1200L	Pipework:				
	C3.1.3	Steel Pipes and Specials				
		Supply API 5L Sch 40 steel pipe, manufacture, handle, lay, bed, joint, and disinfect the following (rates to include for supplying of all steel pipes, in-situ welding of joints and flanges where applicable, all cutting, flanges, jointing material, wastage and electrogalvanized bolts, nuts, and washers). All pipes and specials to be coated and lined with Rilsan to a minimum thickness of 300 microns.				
E6.1		50mm ND Spool Pieces Flanged both ends				
E6.1.1		400mm - 600mm	No	2		
E6.1.2		600mm - 800mm	No	2		
E6.1.3		800mm - 1000mm	No	2		
E6.1.4		1000mm - 1200mm	No	2		
E6.2		50mm ND Bends				
E6.2.1		90 Degree bends flanged both ends with 100mm extension	No	2		
E7	1200L	Fittings				
	C3.1.3	In the event of unforeseen shortages of materials at eThekweni stores, supply the fittings indicated below, to EWS current Departmental Standards				
E7.1		Adaptors, couplings and reducers				
E7.1.1		50mm copper to steel	No	1		
E7.1.2		50mm steel to steel	No	1		
E7.1.3		50mm x Table D to Table 16 Adaptor Spool	No	1		
E7.1.4		54mm x 42mm Brass Reducer	No	1		
E7.1.6		50mm x 50mm Screw Flange	No	2		
Carried forward						

Section E: 50mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
	1200L	Fittings				
	C3.1.3	In the event of unforeseen shortages of materials at eThekweni stores, supply the fittings indicated below, to EWS current Departmental Standards				
E7.2		Compression Fittings for HDPE				
E7.2.1		50mm Flange adaptor	No	2		
E7.2.2		50mm Female adaptor	No	2		
E7.2.3		50mm Male adaptor	No	2		
E7.2.4		50mm Male Bends	No	2		
E7.2.5		50mm Elbows	No	2		
E7.2.6		50mm x 110mm Male Adaptor	No	2		
E7.2.7		50mm female bends	No	2		
E7.3		Copper Fittings				
E7.3.1		54mm Copper to Male Adaptor	No	2		
E7.3.2		54mm Copper to Steel 90-degree elbow	No	2		
E7.3.3		54mm x 42mm Copper to Steel reducer	No	2		
E7.3.4		54mm F/Male Iron Adaptor	No	2		
E8		Pipe Cut to Suit on Site dimensions				
E8.1		50mm HDPE straight pipe	m	6		
Total carried to Summary						

Section F: 80mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
F1	SABS 1200 & PS & C3.1					
	C3.1.3	Site works				
F1.1		Locating existing meter, liaison with consumers, conducting a thorough water test investigation, ensuring all water received by property is accounted and measurable. Compiling all relevant information and preparation for implementation.	No	1		
F1.2		Excavation and removal of existing meter installation and returning material to stores. Compliance with EWS returns procedures meter exchange procedures and accurate record keeping.	No	1		
F2	C3.1.3	Meter Assembly and Installation - Collected from EWS Stores:				
		Collect valve and meter from stores, all additional fittings and piping required, assemble, and install complete as per drawing (72056, sheet 2, Rev 1) including cutting into existing pipeline, preparation of both pipe edges, for new pipe work (including making good existing corrosion protection if any) consisting of:				
		1x80mm Butterfly valve supplied complete with matching flanges and jointing material				
		1x80mm Gate valve supplied complete with matching flanges and jointing material				
		1x80mm Spool Piece 250mm Flanged Distance				
		1x80mm x 90 deg Flanged bend one leg extended by 100mm				
		1x80mm x 90 deg Flanged bend one leg extended by (500mm, 800mm, 1m, 1.2m)				
		1x80mm x 90 deg Flanged both bend ends leg extended by (500mm, 800mm, 1m, 1.2m)				
		1x80mm compact dirt box with 240mm long flanged spool				
		1x80mm Flow meter				
		TOTAL PRICE FOR 80mm ASSEMBLY	No	1		
F3	C3.1.4	Meter Assembly and Installation - Fabricated/purchased from external supplier				
		In the event of unforeseen shortages of materials at eThekweni stores, supply the fittings indicated below, to EWS current Departmental Standards				
F3.1		1x80mm Butterfly valve supplied complete with matching flanges and jointing material	No	1		
F3.2		1x80mm Gate valve supplied complete with matching flanges and jointing material	No	1		
F3.3		1x80mm Spool Piece 250mm Flanged	No	1		
F3.4		1x80mm compact dirt box with 240mm long flanged spool piece (drawing to be provided as required)	No	1		
F3.5		1x80mm Flow meter	No	2		
F3.6		M16 x 75mm nut and bolt (long length)	No	100		
F3.7		M16 washers	No	100		
F3.8		80mm x 300mm flanged steel spool piece	No	1		
Carried forward						

Section F: 80mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
F4	C.4.1	Fabricate and Install 80mm Meter Cover Fabricate a 3mm thick steel meter cover. Cover to be power coated/Rilsan Coated. Light blue/grey in colour. Cover will be bolted to meter flanges upon installation. An allowance slot must be catered for meter reading. A drawing will be provided at contract award date.	No	1		
F5	PS1.3	The Contractor is to ensure that all road signs, barricades, delineators, flagmen and speed control are affected and removed on completion of different stages of the work as required.	No	1		
F6	1200L	Pipework:				
	C3.1.3	Steel Pipes and Specials Supply API 5L Sch 40 steel pipe, manufacture, handle, lay, bed, joint, and disinfect the following (rates to include for supplying of all steel pipes, in-situ welding of joints and flanges where applicable, all cutting, flanges, jointing material, wastage and electrogalvanized bolts, nuts, and washers). All pipes and specials to be coated and lined with Rilsan to a minimum thickness of 300 microns.				
F6.1		80mm ND Spool Pieces Flanged both ends				
F6.1.1		400mm - 600mm	No	2		
F6.1.2		600mm - 800mm	No	2		
F6.1.3		800mm - 1000mm	No	2		
F6.1.4		1000mm - 1200mm	No	2		
F6.2		80mm ND Bends				
F6.2.1		90 Degree bends flanged both ends with 100mm extension	No	1		
Carried forward						

Section F: 80mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
F7	1200L	Fittings				
	C3.1.3	In the event of unforeseen shortages of materials at eThekweni stores, supply the fittings indicated below, to EWS current Departmental Standards				
F7.1		Adaptors, couplings, and reducers				
F7.1.1		80mm x Table D to Table 16 Adaptor Spool	No	2		
F7.1.2		75mm Maxi Fit Flange Adaptor	No	2		
F7.1.3		75mm Maxi Fit Flange Coupling	No	2		
F7.1.4		75mm Steel Barrel adaptor	No	2		
F7.2		Compression Fittings for HDPE				
F7.2.1		63mm Flange Adaptors	No	4		
F7.2.2		63mm x 90-degree Bends	No	4		
F7.2.3		75mm Flange adaptor	No	4		
F7.2.4		75mm Female Adaptor	No	2		
F7.2.5		75mm x 90 Degree Bends	No	4		
F7.2.6		75mm x 90mm Reducer	No	2		
F7.2.7		75mm x 75mm Screwed flange	No	2		
F7.2.8		75mm Elbows	No	4		
F8		Pipe Cut to Suit on Site Dimensions				
F8.1		63mm HDPE pipe	m	6		
F8.2		75mm HDPE pipe	m	6		
F9		Other materials				
F9.1		80mm Valve Cover (Std Drwg No.28)	No	1		
F9.2		80mm Concrete spacer rings (Std Drwg No.6)	No	6		
F9.3		Supply and Install Grade 20 Mpa concrete for anchor and thrust	No	2		
Total carried to Summary						

Section G: 100mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
G1	SABS 1200 & PS & C3.1					
	C3.1.3	Site works				
G1.1		Locating existing meter, liaison with consumers, conducting a thorough water test investigation, ensuring all water received by property is accounted and measurable. Compiling all relevant information and preparation for implementation.	No	1		
G1.2		Excavation and removal of existing meter installation and returning material to stores. Compliance with EWS returns procedures meter exchange procedures and accurate record keeping.	No	1		
G2	C3.1.3	Meter Assembly and Installation - Collected from EWS Stores:				
		Collect valve and meter from stores, all additional fittings and piping required, assemble, and install complete as per drawing (72056, sheet 3, Rev A) including cutting into existing pipeline, preparation of both pipe edges, for new pipe work (including making good existing corrosion protection if any) consisting of:				
		1x 100mm Butterfly valve supplied complete with matching flanges and jointing material				
		1x100mm Gate valve supplied complete with matching flanges and jointing material				
		1x100mm Spool Piece 250mm Flanged Distance				
		1x 100mm 250mm dirt box				
		2x 100mm x 300mm long flanged spool				
		1x 100mm Flow meter				
		TOTAL PRICE FOR 100mm ASSEMBLY	No	1		
G3	PMS5	Meter Assembly and Installation - Fabricated/purchased from external supplier				
		In the event of unforeseen shortages of materials at eThekweni stores, supply the fittings indicated below, to EWS current Departmental Standards				
G3.1		100mm Butterfly valve supplied complete with matching flanges and jointing material	No	1		
G3.2		100mm Gate valve supplied complete with matching flanges and jointing material	No	1		
G3.3		100mm Spool Piece 250mm Flanged Distance	No	1		
G3.4		100mm compact 250mm dirt box with 300mm long flanged spool	No	1		
G3.6		100mm Flow meter	No	1		
G3.7		M16 nuts and bolts (Long length)	No	100		
G3.8		M16 washer	No	100		
G3.9		100mm gaskets	No	15		
Carried forward						

Section G: 100mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
G4	C3.1.3	Fabricate and Install 100mm Meter Cover Fabricate a 3mm thick steel meter cover. Cover to be powder coated/Rislan coated. Light blue/grey in colour. Cover will be bolted to meter flanges upon installation. An allowance slot must be catered for meter reading. A drawing will be provided at contract award date.	No	1		
G5	PS1.3	The Contractor is to ensure that all road signs, barricades, delineators, flagmen and speed control are affected and removed on completion of different stages of the work as required.	No	1		
	1200L	Pipework:				
G6	C3.1.3	Steel Pipes and Specials Supply API 5L Sch 40 steel pipe, manufacture, handle, lay, bed, joint, and disinfect the following (rates to include for supplying of all steel pipes, in-situ welding of joints and flanges where applicable, all cutting, flanges, jointing material, wastage and electrogalvanized bolts, nuts, and washers). All pipes and specials to be coated and lined with Rilsan to a minimum thickness of 300 microns.				
G6.1		100mm ND Spool Pieces Flanged both ends				
G6.1.1		400mm - 600mm	No	2		
G6.1.2		600mm - 800mm	No	2		
G6.1.3		800mm - 1000mm	No	2		
G6.1.4		1000mm - 1200mm	No	2		
G6.2		100mm ND Bends				
G6.2.1		90 Degree bends flanged both ends with 100mm extension	No	2		
Carried forward						

Section G: 100mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
G7	1200L	Fittings In the event of unforeseen shortages of materials at eThekweni stores, supply the fittings indicated below, to EWS current Departmental Standards				
G7.1		Adaptors, couplings and reducers				
G7.1.1		100mm x Table D to Table 16 Adaptor Spool	No	1		
G7.1.2		100mm Couplings	No	1		
G7.1.3		100mm Maxi Fit Flange Adaptor	No	2		
G7.1.4		100mm Maxi Fit Flange Coupling	No	2		
G7.1.5		100mm Steel Barrel adaptor	No	1		
G7.2		Compression Fittings for HDPE				
G7.2.1		90mm Flange Adaptors	No	2		
G7.2.2		90mm x 90-degree Bends	No	2		
G7.2.3		100mm Flange Adaptors	No	2		
G7.2.4		100mm x 90-degree Bends	No	2		
G7.3		Double 90-degree bend with thrust plate (Special fitting)	No	1		
G7.4		Pipe Cut to Suit on Site dimensions				
G7.4.1		100mm HDPE straight pipe	m	6		
G8		Other materials				
G9.1		100mm Valve Cover (Std Drwg No.28)	No	1		
G9.2		100mm Concrete spacer rings (Std Drwg No.6)	No	6		
G9.3		Grade 20 Mpa concrete with formwork for anchor and thrust	No	2		
Total carried to Summary						

Section H: 150mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SABS 1200 & PS & C3.1					
H1	C3.1.3	Site works Locating existing meter, liaison with consumers, conducting a thorough water test investigation, ensuring all water received by property is accounted and measurable. Compiling all relevant information and preparation for implementation. Locating existing meter, liaison with consumers, excavation & removal of existing meter installation and returning material to stores. Compliance with EWS returns procedures meter exchange procedures an accurate record keeping.	No	1		
H2	C3.1.3	Meter Assembly and Installation - Collected from EWS Stores: Collect valve and meter from stores, all additional fittings and piping required, assemble, and install complete as per drawing (72056, sheet 4, Rev 1) including cutting into existing pipeline, preparation of both pipe edges, for new pipe work (including making good existing corrosion protection if any) consisting of: 1x 150mm Butterfly valve supplied complete with matching flanges and jointing material 1x150mm Gate valve supplied complete with matching flanges and jointing material 1x150mm Spool Piece 250mm Flanged Distance 2x 150mm x 90 deg Flanged bend one leg extended by 100mm 1x 150mm dirt box with 450mm spool 2x 150mm x 450mm long flanged spool 1x 150mm Flow meter TOTAL PRICE FOR 150mm ASSEMBLY	No	1		
H3	PMS5	Meter Assembly and Installation - Fabricated/purchased from external supplier In the event of unforeseen shortages of materials at eThekweni stores, supply the fittings indicated below, to EWS current Departmental Standards				
H3.1		150mm Butterfly valve supplied complete with matching flanges and jointing material	No	1		
H3.2		150mm Gate valve supplied complete with matching flanges and jointing material	No	1		
H3.3		150mm Spool Piece 250mm Flanged Distance	No	1		
H3.4		150mm dirt box with 450mm spool	No	1		
H3.5		150mm diameter gaskets	No	15		
H3.6		150mm Flow meter	No	1		
H3.7		M16 nuts and bolts (long length)	No	100		
H3.8		M16 washers	No	100		
Carried forward						

Section E: 150mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
H4	C3.1.3	Fabricate and Install 150mm Meter Cover Fabricate a 3mm thick steel meter cover. Cover to be power coated/Rislan Coated. Light blue/grey in colour. Cover will be bolted to meter flanges upon installation. An allowance slot must be catered for meter reading. A drawing will be provided at contract award date.	No	1		
H5	PS1.3	The Contractor is to ensure that all road signs, barricades, delineators, flagmen and speed control are affected and removed on completion of different stages of the work as required.	No	1		
H6	1200L C3.1.3	Pipework: Steel Pipes and Specials Supply API 5L Sch 40 steel pipe, manufacture, handle, lay, bed, joint, and disinfect the following (rates to include for supplying of all steel pipes, in-situ welding of joints and flanges where applicable, all cutting, flanges, jointing material, wastage and electrogalvanized bolts, nuts, and washers). All pipes and specials to be coated and lined with Rilsan to a minimum thickness of 300 microns.				
H6.1		150mm ND Spool Pieces Flanged both ends				
H6.1.1		400mm - 600mm	No	2		
H6.1.2		600mm - 800mm	No	2		
H6.1.3		800mm - 1000mm	No	2		
H6.1.4		1000mm - 1200mm	No	2		
H6.2		150mm ND Bends				
H6.2.1		90 Degree bends flanged both ends with 100mm extension	No	2		
Carried forward						

Section H: 150mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
H7	1200L	Fittings In the event of unforeseen shortages of materials at eThekweni stores, supply the fittings indicated below, to EWS current Departmental Standards				
H7.1		Adaptors, couplings, and reducers				
H7.1.1		150mm x Table D to Table 16 Adaptor Spool	No	1		
H7.1.2		150mm Couplings	No	1		
H7.1.3		150mm Maxi Fit Flange Adaptor	No	1		
H7.1.4		150mm Maxi Fit Flange Coupling	No	1		
H7.1.5		150mm Steel Barrel adaptor	No	1		
H7.2		Compression Fittings for HDPE				
H7.2.1		150mm Flange Adaptors	No	2		
H7.2.2		150mm x 90-degree Bends	No	2		
H7.2.3		150mm Male Adaptor	No	2		
H7.2.4		150mm Female Adaptor	No	2		
H7.2.5		150mm x 90-degree Bends	No	2		
H7.3		Double 90-degree bend with thrust plate (Special fitting)	No	1		
H7.4		Pipe Cut to Suit on Site dimensions				
H7.4.1		150mm	m	10		
H7.5		Other materials				
H7.5.1		150mm Valve Cover (Std Drwg No.28)	No	1		
H7.5.2		150mm Concrete spacer rings (Std Drwg No.6)	No	6		
H7.5.3		Grade 20 Mpa concrete with formwork for anchor and thrust	No	2		
Total carried to Summary						

Section I: 200mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
I1	SABS 1200 & PS & C3.1 C3.1.3	Site works Locating existing meter, liaison with consumers, conducting a thorough water test investigation, ensuring all water received by property is accounted and measurable. Compiling all relevant information and preparation for implementation.	No	1		
		Excavation and removal of existing meter installation and returning material to stores. Compliance with EWS returns procedures meter exchange procedures and accurate record keeping.	No	1		
I2	C3.1.3	Meter Assembly and Installation - Collected from EWS Stores: Collect valve and meter from stores, all additional fittings and piping required, assemble, and install complete as per drawing (72056, sheet 5, Rev 1) including cutting into existing pipeline, preparation of both pipe edges, for new pipe work (including making good existing corrosion protection if any) consisting of: 1x 200mm Butterfly valve supplied complete with matching flanges and jointing material 1x200mm Gate valve supplied complete with matching flanges and jointing material 1x200mm Spool Piece 250mm Flanged Distance 2x 200mm x 90 deg Flanged bend one leg extended by 100mm 1x 200mm dirt box 2x 200mm x 450mm long flanged spool 1x 200mm Flow meter TOTAL PRICE FOR 200mm ASSEMBLY	No	1		
I3	PMS5	Meter Assembly and Installation - Fabricated/purchased from external supplier In the event of unforeseen shortages of materials at eThekweni stores, supply the fittings indicated below, to EWS current Departmental Standards				
I3.1		200mm Butterfly valve supplied complete with matching flanges and jointing material				
I3.2		200mm Gate valve supplied complete with matching flanges and jointing material				
I3.3		200mm Spool Piece 250mm Flanged Distance				
I3.4		200mm dirt box with 600mm straight flanged spool				
I3.5		200mm diameter gaskets				
I3.6		200mm Flow meter				
I3.7		M16x200 nuts and bolts (long length)				
I3.8		M16x200 washers				
Carried forward						

Section E: 200mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
I4	C3.1.3	Fabricate and Install 200mm Meter Cover Fabricate a 3mm thick steel meter cover. Cover to be power coated/Rislan Coated. Light blue/grey in colour. Cover will be bolted to meter flanges upon installation. An allowance slot must be catered for meter reading. A drawing will be provided at contract award date.	No	1		
I5	PS1.3	The Contractor is to ensure that all road signs, barricades, delineators, flagmen and speed control are affected and removed on completion of different stages of the work as required.	No	1		
I6	1200L C3.1.3	Pipework: Steel Pipes and Specials Supply API 5L Sch 40 steel pipe, manufacture, handle, lay, bed, joint, and disinfect the following (rates to include for supplying of all steel pipes, in-situ welding of joints and flanges where applicable, all cutting, flanges, jointing material, wastage and electrogalvanized bolts, nuts, and washers). All pipes and specials to be coated and lined with Rilsan to a minimum thickness of 300 microns.				
I6.1		200mm ND Spool Pieces Flanged both ends				
I6.1.1		400mm - 600mm	No	2		
I6.1.2		600mm - 800mm	No	2		
I6.1.3		800mm - 1000mm	No	2		
I6.1.4		1000mm - 1200mm	No	2		
I6.2		200mm ND Bends				
I6.2.1		90 Degree bends flanged both ends with 100mm extension	No	2		
I7.5		Other materials				
I7.5.1		200mm Valve Cover (Std Drwg No.28)	No	1		
I7.5.2		200mm Concrete spacer rings (Std Drwg No.6)	No	6		
I7.5.3		Grade 20 Mpa concrete with formwork for anchor and thrust	No	2		
Carried forward						

Section J: 250mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SABS 1200 & PS & C3.1					
J1	C3.1.3	Site works Locating existing meter, liaison with consumers, conducting a thorough water test investigation, ensuring all water received by property is accounted and measurable. Compiling all relevant information and preparation for implementation. Locating existing meter, liaison with consumers, excavation & removal of existing meter installation and returning material to stores. Compliance with EWS returns procedures meter exchange procedures an accurate record keeping.	No	1		
			No	1		
J2	C3.1.3	Meter Assembly and Installation - Collected from EWS Stores: Collect valve and meter from stores, all additional fittings and piping required, assemble, and install complete as per drawing (45488, sheet 7/8, Rev 0) including cutting into existing pipeline, preparation of both pipe edges, for new pipe work (including making good existing corrosion protection if any) consisting of: 1x 250mm Butterfly valve supplied complete with matching flanges and jointing material 1x 250mm Gate valve supplied complete with matching flanges and jointing material 1x 250mm Spool Piece 300mm Flanged Distance 2x 250mm x 90 deg Flanged bend one leg extended by 300mm 1x 250mm dirt box 1x 250mm x 450mm long flanged spool 1x 250mm Flow meter TOTAL PRICE FOR 250mm ASSEMBLY	No	1		
J3		Meter Assembly and Installation - Fabricated/purchased from external supplier In the event of unforeseen shortages of materials at eThekweni stores, supply the fittings indicated below, to EWS current Departmental Standards				
J3.1		200mm Butterfly valve supplied complete with matching flanges and jointing material				
J3.2		200mm Gate valve supplied complete with matching flanges and jointing material				
J3.3		250mm Spool Piece 250mm Flanged Distance				
J3.4		250mm dirt box with 600mm straight flanged spool				
J3.5		250mm diameter gaskets				
J3.6		250mm Flow meter				
J3.7		M16x250 nuts and bolts (long length)				
J3.8		M16x250 washers				
J3.9						
Total Carried to Summary						

Section E: 250mm Flow
Meter Installation

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
J4	C3.1.3	Fabricate and Install 250mm Meter Cover Fabricate a 3mm thick steel meter cover. Cover to be power coated/Rislan Coated. Light blue/grey in colour. Cover will be bolted to meter flanges upon installation. An allowance slot must be catered for meter reading. A drawing will be provided at contract award date.	No	1		
J5	PS1.3	The Contractor is to ensure that all road signs, barricades, delineators, flagmen and speed control are affected and removed on completion of different stages of the work as required.	No	1		
J6	1200L C3.1.3	Pipework: Steel Pipes and Specials Supply API 5L Sch 40 steel pipe, manufacture, handle, lay, bed, joint, and disinfect the following (rates to include for supplying of all steel pipes, in-situ welding of joints and flanges where applicable, all cutting, flanges, jointing material, wastage and electrogalvanized bolts, nuts, and washers). All pipes and specials to be coated and lined with Rilsan to a minimum thickness of 300 microns.				
J6.1		250mm ND Spool Pieces Flanged both ends				
J6.1.1		400mm - 600mm	No	2		
J6.1.2		600mm - 800mm	No	2		
J6.1.3		800mm - 1000mm	No	2		
J6.1.4		1000mm - 1200mm	No	2		
J6.2		250mm ND Bends				
J6.2.1		90 Degree bends flanged both ends with 100mm extension	No	2		
J7.5		Other materials				
J7.5.1		250mm Valve Cover (Std Drwg No.28)	No	1		
J7.5.2		250mm Concrete spacer rings (Std Drwg No.6)	No	6		
J7.5.3		Grade 20 Mpa concrete with formwork for anchor and thrust	No	2		
Carried forward						

Section K: Miscellaneous

[illegible]

Section K: Miscellaneous

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
K4		Meter Assembly and Installation				
K4.1		Extra over Item 2 for Item 2 in Schedules B to I for installation after hours for the following meter sizes:				
K4.1.1		15mm connection	No	2 000		
K4.1.2		25mm connection	No	1000		
K4.1.3		40/50mm connection	No	50		
K4.1.4		75/80mm connection	No	30		
K4.1.5		100mm connection	No	20		
K4.1.6		150mm connection	No	10		
K4.1.7		200mm connection	No	10		
K4.1.8		250mm connection	No	10		
K5	PMS1	Erection of notification signboards for interruption of supply	No	1 000		
K6		Supply concrete bollards as per specification - 2m long, 200mm thick	No	2		
K7	1200GA	Supply Grade 20 Mpa concrete with formwork for anchor and thrust blocks and labour	m3	10		
K8		Consolidation of sprinkler and fire connection				
K8.1		Proving of fire and sprinkler lines from connection to property	m3	10		
K8.2		Pick up from EWS store, end-caps for sprinkler line/fire line/ any other unmetered connection found on site, and provide plant and labour to blank off sprinkler connection from municipal side	No	1		
K9		Provision for monthly reports on each installation for each month	No	1		
K10		Extra over Item 2 for Provisional Sums				
K10.1		Water shutdown preparations				
K10.2		Extra Over for night shut down				
K10.3		Calibration and test certificates for ultrasonic meter unit after installation				
K10.4		Calibration and test certificates for Magflow meter unit after installation				
Total Carried to Summary						

Section L: Summary

Water metering project for eThekweni Municipality area of supply for a period of 36 months.	
<u>Contract No.: 35023-5W</u>	
<u>SUMMARY OF WORK PERFORMED</u>	
DESCRIPTION	SCHEDULED AMOUNT
Section A: Preliminary & General	R
Section B: 15mm Diameter Water Meter installation	R
Section C: 25mm Diameter Water Meter installation	R
Section D: 40mm Diameter Water Meter installation	R
Section E: 50mm Diameter Water Meter installation	R
Section F: 80mm Diameter Water Meter installation	R
Section G: 100mm Diameter Water Meter installation	R
Section H: 150mm Diameter Water Meter installation	R
Section I: 200mm Diameter Water Meter installation	R
Section J: 250mm Diameter Water Meter installation	R
Section K: Miscellaneous	R
SUB TOTAL	R
ADD: VALUE ADDED TAX (15%)	R
TOTAL VALUE OF WORK	R

PART C3: SCOPE OF WORK

	<u>PAGE</u>
C3.1 PROJECT DESCRIPTION AND SCOPE OF CONTRACT	120
C3.2 PROJECT SPECIFICATIONS	126
PS.1 Programme, Method of Work, and Accommodation of Traffic	
PS.2 Services	
PS.3 Watermains	
PS.4 Sewers	
PS.5 Stormwater	
PS.6 Electrical Plant	
PS.7 Telkom S.A. Limited / Neotel Plant	
PS.8 CCTV Plant	
PS.9 Management of the Environment	
PS.10 Occupational Health and Safety	
C3.3 STANDARD SPECIFICATIONS	140
C3.3.1 Listing of the Standard Specifications	
C3.3.2 Amendments to the Standard Specifications	
C3.4 PARTICULAR SPECIFICATIONS	142
C3.4.1 Part AH - OHSA 1993 Safety Specification (2014)	
C3.4.2 Standard Environmental Management Plan for Civil Engineering Construction Works	
C3.5 CONTRACT AND STANDARD DRAWINGS	153
C3.5.1 Contract Drawings / Details	
C3.5.2 Standard Drawings	
C3.6 ANNEXURES	164

C3.1: PROJECT DESCRIPTION AND SCOPE OF CONTRACT

C3.1.1 Description of Works

The Water Metering Project forms a key component of the eThekweni Municipality's Turnaround Strategy, as supported by National Treasury, aimed at restoring financial sustainability, improving revenue management, and strengthening service delivery outcomes within the water and sanitation sector.

The project scope focuses on addressing apparent water losses through targeted metering interventions across the municipal water distribution network. This includes the identification and replacement of non-functional water meters, such as stopped meters, meters registering zero consumption, and meters that are obsolete or inaccurate. The project further entails the investigation and resolution of meters that cannot be located or accessed by meter readers due to poor siting, undocumented infrastructure changes, or restricted access on private properties.

In alignment with best practice asset management and revenue protection principles, the project will address locked and inaccessible properties by re-siting water meters to standardized, compliant, and easily accessible locations. This will enable consistent meter reading, reduce reliance on estimated billing, and ensure that consumption is accurately measured and recorded.

By improving the functionality, visibility, and accessibility of water meters, the project directly supports the Turnaround Strategy's focus on enhancing revenue collection, strengthening financial controls, and reducing operating inefficiencies. Accurate metering will ensure customers are billed on actual consumption, thereby stabilizing and potentially increasing revenue streams, improving cash flow, and reducing billing disputes. Specific goals include:

- **Improved Meter Accessibility:** Relocating water meters to visible, above-ground positions (where feasible) outside property boundaries to facilitate easier meter reading and maintenance, particularly in densely populated residential and commercial zones of the Southern Areas.
- **Billing Consolidation:** Consolidating multiple billing meters into a single register per property to simplify billing, reduce errors in meter reading, and enhance operational efficiency for the municipality.
- **Cost Efficiency:** Reducing the number of meter register sites requiring regular maintenance and replacement, thereby lowering servicing costs per consumer over the meter lifecycle.
- **Water Loss Reduction:** Ensuring accurate metering to minimize apparent losses due to faulty or outdated meters, contributing to the municipality's NRW reduction targets.

The project contributes directly to the reduction of eThekweni Municipality's Non-Revenue Water by addressing apparent losses associated with meter failure, unread meters, and unbilled consumption. Improved metering data will support more effective water demand management, enable informed operational decision-making, and align with National Treasury's objectives of improving municipal financial performance, cost recovery, and long-term service sustainability.

Overall, the Water Metering Project represents a strategic intervention that supports the implementation of the eThekweni Turnaround Strategy, enhances institutional accountability, and strengthens the Municipality's ability to deliver reliable and financially sustainable water services.

MAIN COMPONENTS OF THE WORKS

Investigations (Desktop and on site)

Liaison with consumer regarding accessing properties, installation re-siting (where necessary) and consolidation of meters (if applicable).

Trenching, bedding, backfilling for reticulation/connection pipes.

Earthworks to include for pipeline trenching.

Barricading all trenches.

Fabrication, supplying, laying, jointing, testing of pipes and fittings, that shall connect to the existing pipework.

Reinstatement of site to original condition.

All useable materials to be returned to stores.

NOTE:

The Contractor is to note that the works called for under this Contract is subject to confirmation of existing infrastructure and that proving is required at almost **ALL** the locations per property/site for the proposed location of the meter installation, in order to confirm the location of existing services and other cross connection points that supply water from the main. The items scheduled under the Contract are an estimate of the installations required in the operational area and is subject to vary. The works includes but is not limited to:

- **Site Investigation and Documentation:** Locating and photographing existing water meter installations to verify their condition and configuration prior to commencing work. This includes proving existing pipework to confirm connection points and capturing photographic evidence during and after installation for quality assurance and record-keeping.
- **Trenching and Earthworks:** Excavating trenches by hand for reticulation and connection pipes, including bedding, backfilling, and compaction in accordance with SANS 1200 DB (Earthworks for Pipe Trenches). Earthworks will also involve constructing meter chambers, with barricading to ensure safety in urban and pedestrian-heavy areas.
- **Pipework and Fittings:** Fabricating, supplying, laying, jointing, and testing pipes and fittings (e.g., AC, PVC, HDPE, steel, copper) to connect new or upgraded meters to existing water supply networks. This includes cutting into existing pipelines, preparing pipe edges, and ensuring water-tight connections.
- **Meter Installation and Consolidation:** Installing new water meters or replacing outdated ones, with a focus on consolidating multiple meters into a single, upstream meter per property where applicable.
- **Reinstatement:** Restoring sites to their original condition, including reinstating surfaces such as concrete, asphalt, or paving. This is critical especially in urban areas, where works may occur in residential driveways, public sidewalks, or commercial precincts with high aesthetic and functional requirements.
- **Consumer Liaison and Notifications:** Engaging with property owners and tenants to coordinate meter installations and consolidations, including issuing formal notification letters and erecting shutdown notice boards 48 hours prior to planned water supply interruptions for large meters.
- **Testing and Quality Control:** Conducting water tightness tests and flushing lines post-installation to ensure uninterrupted flow, adequate pressure, and no leaks or installation faults, as mandated in C4.3 (Test Results). The contractor must repair any leaks identified within one month of completion and hand over to the municipality.
- **Traffic and Pedestrian Management:** Implementing traffic accommodation measures, including road signs, flagmen, and speed controls, to ensure safety during construction in busy urban corridors and residential streets, in compliance with SANS 1921-2 (Accommodation of Traffic).

- **Environmental and Safety Compliance:** Adhering to the Standard Environmental Management Plan (C3.4.2) and OHS 1993 Safety Specification (C3.4.1), with particular attention to managing risks associated with existing underground services (e.g., watermain, sewers, electrical cables) and ensuring minimal disruption to natural vegetation in semi-rural parts of eThekweni.

Extent of the Works

The works are estimated to cover a significant number of properties across the eThekweni area of supply, with the exact quantity subject to confirmation based on the municipality's meter records and site investigations. The contractor will work within specific shutdown windows to minimize disruption, particularly in commercial and industrial zones where water supply reliability is critical.

The project includes:

- **Meter Sizes and Types:** Installation of mechanical water meters ranging from 15mm (domestic) to 250mm (bulk), with associated fittings such as valves, strainers, and dirt boxes, as detailed in the contract drawings (C3.5.1).
- **Pipe Materials:** Handling various pipe materials, including asbestos cement (AC), PVC, HDPE, UPVC, steel, and copper, requiring specialized skills for cutting, jointing, and testing.
- **Surface Types:** Excavation and reinstatement in diverse surfaces, such as concrete driveways, asphalt roads, paved sidewalks, and grassed verges, reflecting the varied urban and suburban landscapes of eThekweni Municipality.
- **Service Coordination:** Liaising with the municipality's representatives to coordinate shutdowns, verify meter sizes, and update GIS records with GPS coordinates of completed installations. The contractor will also manage the return of old fittings to stores and complete "blue forms" for new meter installations.
- **Security and Community Considerations:** Providing site security to protect staff, materials, and equipment, especially in areas with higher crime rates. The contractor must also address community concerns through proactive communication, given the socio-economic diversity of eThekweni Municipality.

C3.1.2 Description of Site and Access

The Sites are located within the eThekweni Municipality supply area.

C3.1.3 Nature of Ground and Subsoil Conditions

Tenderers must satisfy themselves to the nature of materials to be excavated under this contract. No geotechnical survey of this site has been undertaken due to the nature of the contract and the various areas that construction is anticipated. The nature of the project is such that no excavation in rocks is anticipated as excavation will generally take place in existing trenches.

No responsibility is accepted for any conclusions drawn by Tenderers from the information supplied and Tenderers must satisfy themselves as to the nature of materials to be excavated under this Contract. Tenderers are at liberty to excavate any further trial holes or to carry out other investigations to satisfy themselves as to the nature of the ground that will be encountered in the Works, provided that they advise the Engineer of their intention to carry out such further trial hole excavations or other investigations so that the necessary safety requirements can be ensured. Any trial hole excavated in areas close to pedestrian or vehicular traffic shall be barricaded and shall be backfilled immediately after inspection of the soil conditions.

The Tenderer shall be fully liable for any claims for losses, damage or injuries whatsoever arising out of, or as a consequence of, carrying out trial hole excavations for the purpose of his tender. Furthermore, the Engineer's authority for the carrying out of any exploratory excavations is subject to the Tenderer indemnifying the Employer and the Engineer against any such claims.

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). Table 2. below 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 • Further Education and Training Certificate: Supervision of Construction Processes

Contractor Responsibilities

The contractor shall be responsible for the following, in addition to the activities outlined above:

- **Material Management:** Request and collect materials (e.g., meters, fittings, valve covers) from eThekweni Water and Sanitation stores, following the procedure in PMS.3.1 (Procedure for the Withdrawal of Material). Provide weekly summaries of materials drawn, including requisition numbers and installation sites (PMS.3.2).
- **Progress Reporting:** Submit monthly progress reports to the Employer's Agent, including digital photographs, test results, consumer consultation records, and GIS coordinates for completed installations. Reports shall align with the preliminary programme and highlight any delays or issues.
- **Shutdown Coordination:** Liaise with the municipality's Water and Sanitation Unit to schedule shutdowns, ensuring minimal disruption to consumers. Shutdowns shall be completed within specified time limits, typically 4–8 hours, depending on the scale of the works.
- **Performance Monitoring:** Comply with the municipality's Performance Monitoring requirements (C1.2.3.5), agreeing on Key Performance Indicators (KPIs) with the Employer before commencement. KPIs may include installation rates, consumer satisfaction, and compliance with quality standards.
- **FTE Employment Data:** Provide monthly Full-Time Equivalent (FTE) employment information for all foremen, artisans, and labour, including days worked, wage rates, and training days, as per C1.2.3.4 (FTE Employment Information). Data shall be submitted in an Excel format or as agreed with the Employer's Agent.

Deliverables and Milestones

The contractor shall deliver the following key outputs, aligned with the contract timeline:

- **Quality Assurance and Control Plan:** A comprehensive plan, submitted prior to field activities, detailing quality control procedures and compliance checklists (PMS.4).
- **Monthly Progress Reports:** Including photographs, test results, consumer records, and GIS coordinates, submitted by the 5th of each month.
- **FTE Employment Data:** Monthly Excel reports detailing labour employment, submitted with payment claims (C1.2.3.4).
- **GIS Updates:** GPS coordinates for all installed meters, submitted in a format compatible with the municipality's GIS system.

Milestones shall be defined in the contractor's programme, with key targets including:

- Installation of 25% of meters within 3 months, 50% within 18 months, and 100% within the contract duration (to be specified in C1.2, Contract Data).
- Final reinstatement and handover of all sites by the contract completion date.

Subcontracting and Empowerment

For contracts valued above R30 million, the contractor shall subcontract a minimum of 30% of the contract value to designated groups, as per ACT.5 (Subcontracting as Condition of Tender) and the 2017 PPPFA Regulations. Designated groups include EMEs or QSEs owned by black people, youth, women, or those with disabilities, among others. For contracts between R5 million and R30 million, the contractor shall comply with the eThekweni Municipal Council's empowerment framework, prioritizing local labour and SMMEs. A subcontracting plan shall be submitted with the tender, detailing proposed subcontractors and compliance with B-BBEE requirements (F.2.23).

The scope of this contract is designed to achieve the municipality's objectives of reducing NRW, improving billing efficiency, and enhancing meter accessibility through a systematic maintenance of water meter installations in the eThekweni Municipality area of supply. The contractor shall execute a multifaceted scope, encompassing site investigation, earthworks, pipework, meter installation, reinstatement, consumer liaison, and compliance with stringent quality, safety, and environmental standards. By addressing the region's unique challenges such as urban density, community sensitivities, and variable soil conditions, the contractor will contribute to the sustainable management of eThekweni's water resources, delivering measurable benefits to the municipality and its residents.

PMS.3 MATERIALS SUPPLIED BY THE EMPLOYER

The Employers Agent Representative will supply the materials as stipulated in the tender document.

PMS 3.1 Procedure for the withdrawal of material

1. The Contractor shall notify the Employers Agent Representative at least one week in advance of his/her intention to withdraw materials from the Employer's stores. A list of the materials that the Contractor wishes to withdraw shall accompany such notification.
2. The Engineer shall then issue to the Contractor the necessary requisition forms to allow him to withdraw the required materials from the Employer's store. Contractors are to note that materials are to be collected between 08h00 and 15h00 Mon- Fri.

PMS 3.2 Ownership of Materials once collected by the Contractor

All materials supplied by the Employer remain the property of the Employer even after being collected by the Contractor. However, the Contractor shall become fully responsible for the materials once he has drawn them from the Employer's stores. The contractor is to supply a weekly summary of the items drawn from stores and the corresponding requisition numbers and sites in which material were used.

PMS 3.3 Handling of Materials

It shall be the responsibility of the Contractor to check on receiving, the condition of all materials supplied to by the Employer. All defects shall be recorded on the delivery forms and the Engineer shall be notified in writing. The Employers Agent Representative will then: -

1. Replace the defective materials.

2. Repair the defective materials; or
3. Instruct the Contractor to repair the material at the Employer's cost.

PMS.4 QUALITY ASSURANCE

The Contractor is to submit details of his Quality Assurance Plan to the Engineer for approval prior to commencing with field activities. It is expected that the Contractor will have appropriate quality control procedures in place for the following activities:

1. Reporting requirements.
2. Communication
3. Tracking the materials used on this project; and
4. Completing the necessary change control forms correctly.

PMS.5 SUPPLY OF MATERIAL FROM COMMERCIAL SOURCES

In the event of unforeseen shortages of materials from eThekweni Stores. The contractor will be allowed to supply materials for work to proceed from an alternative source. These items are indicated in the bill for 15mm and 25mm installations. Special attention is drawn to the following:

The rates submitted for the items will be valid for the full duration of the contrac

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 CONSTRUCTION PROGRAMME 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 TIME FOR COMPLETION

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

PS.1.2 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.

Electronic versions of the updated construction programme shall be made available to the Employer's Representative in MS Project format as and when any changes are effected.

PS.1.3 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:

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

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

PS.1.4 ORDERING OF MATERIALS FROM EWS

The Contractor is to programme for a minimum lead time of 12 weeks for ordering of all materials from EWS. It may be that no Free Issue materials/meters will be available during the Contract and the Contractor must programme for expected delivery times for procuring materials/meters from their own supplier which are in accordance with eThekweni Municipality approved specifications.

PS.1.5 Requirements for Accommodation of Traffic

PS.1.5.1 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.1.5.2 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.1.5.3 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.1.5.4 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.1.5.5 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.1.5.6 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 1.5 WORKING HOURS

Normal working hours are between 07h30 in the morning and 16h00 in the afternoon, Monday to Friday with full cognisance to be taken of the information in the Contract Data and the description of working days.

All road signs, temporary road works, barricading and/or temporary structures required to make the site safe after normal working hours shall be in place after every work session or by 17h00 of every working day, whichever occurs first. No road signs, temporary road works.

PS 1.6 WORKING OUTSIDE NORMAL WORKING HOURS

The Contractor will be required to execute work outside normal working hours due to operation criteria of EWS. Some water shutdowns will be night shutdowns, and the bill of quantities allows for these shutdowns. The rate shall include all additional costs required to perform the works such as security, power, lighting, workmen overtime etc.

PS.2 SERVICES

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

PS.2.1 Existing Services

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

PS.2.2 Proving Underground Services

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

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

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

The cost of the proving trenches is 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 working with watermains where an existing meter does not have an isolation valve.

It is important to draw the Tenderers attention to the watermains which can only be worked on by Water Supply Operations Branch. Should a watershut be required, the tenderer is to contact the Area Manager to arrange for an agreed water shutdown by an eThekweni Water Distribution officer as approved by the Area Manager so to allow an installation to be conducted by the Tenderer.

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 EtheKweni 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

Services to be proved prior to avoid working close to sewer lines.

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

Services to be proved prior to avoid working close to stormwater lines.

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

The contractor shall be responsible for providing electrical plant such as water pumps, generators, breakers and other equipment needed to assist with the installation of the water meter such as such as to break concrete or asphalt on driveways.

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 eThekweni 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 eThekweni 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 eThekweni 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 eThekweni Electricity and it is stressed that the **two** week period referred to in Clause PS.2 is the minimum period required to enable eThekweni 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

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

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:

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).

The following KPIs are developed to monitor and evaluate the contractor's performance throughout the contract duration. Each KPI is aligned with the project's objectives, scope, and regional challenges, ensuring measurable outcomes that support the municipality's strategic goals. The KPIs are categorized into five key areas: **Quality of Work, Timeliness, Safety and**

Compliance, Customer Engagement and Administrative Efficiency. Each KPI includes a description, performance target, measurement method, and weighting to reflect its relative importance in the overall evaluation.

No	Category	KPI	Description	Performance Target	Measurement Method	weight
1	Quality of Work	Water Meter Installation Compliance	Percentage of water meter installations meeting NRW branch design standards and passing water tightness tests, as per SANS 1899 and C4.3 (Test Results).	100% compliance for all installed meters.	Inspection by Employer's Agent, verified by compliance checklists (C3.6, Annexures). Non-compliant installations require rectification within 5 working days.	25%
2	Quality of Work	Reinstatement Quality	Percentage of reinstated sites (e.g., asphalt, concrete, paving) matching original conditions and meeting SANS 1200 S (Reinstatement) standards.	95% of sites reinstated to original condition, with no complaints from property owners.	Photographic evidence and site inspections by Employer's Agent, with consumer feedback surveys. Defects must be rectified within 7 working days.	15%
3	Timeliness	Adherence to program	Percentage of water meter installations completed as per the approved preliminary programme (PS.1.1), including milestones for 25%, 50%, and 100% completion.	90% adherence to programme milestones, with delays not exceeding 5% of contract duration without approved extensions (Clause 5.12, GCC 2015)	Monthly progress reports compared against programme, with variance analysis. Delays reported to Employer's Agent within 48 hours	10%

4	Timeliness	Shutdown Management	Percentage of water supply shutdowns completed within planned timeframes (typically 4–8 hours), with adequate consumer notification (48 hours prior).	95% of shutdowns completed within planned windows, with zero unplanned disruptions.	Records of shutdown schedules, notification letters, and consumer complaints, verified by Employer's Agent.	20%
5	Safety & Compliance	Health & Safety Incidents	Number of reportable health and safety incidents (e.g., injuries, near-misses) as per OHS Act 1993 Construction Regulations and C3.4.1 (OHS Act Safety Specification).	Zero reportable incidents. Minor non-compliances rectified within 24 hours.	Zero reportable incidents. Minor non-compliances rectified within 24 hours.	15%
6	Customer Engagement	Consumer satisfaction	Percentage of consumers reporting satisfaction with communication and minimal disruption during meter installations.	90% satisfaction rate, with fewer than 5% formal complaints.	90% satisfaction rate, with fewer than 5% formal complaints.	10%
7	Administrative Efficiency	Accuracy & timeliness of reporting	Percentage of monthly progress reports, FTE employment data (C1.2.3.4), and GIS coordinates submitted on time and in the correct format.	100% of reports submitted by the 5th of each month, with zero errors in format or data	100% of reports submitted by the 5th of each month, with zero errors in format or data.	5%

Total Weighting: 100%

The performance monitoring framework outlined in PS.12 ensures that the contractor delivers the water metering project to the highest standards of quality, timeliness, safety, and community engagement. The seven KPIs provide a balanced and measurable approach to evaluating performance, aligning with the municipality's WCWDM Plan and SCM Policy requirements. By adhering to these KPIs, the contractor will contribute to reducing NRW, enhancing billing efficiency, and improving service delivery for the residents and businesses of eThekweni. The Employer's Agent will work collaboratively with the contractor to implement this framework, ensuring transparency, accountability, and continuous improvement throughout the contract duration.

PS.13 CIDB BUILD PROGRAMME**a) 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.

PS 14 QUALITY ASSURANCE (QA)

(Read with SANS 1921 – 1: 2004 clause 4.4)

The Contractor will be solely responsible for the production of work that complies with the Specifications to the satisfaction of the Employer's Representative. To this end it will be the full responsibility of the Contractor to institute an appropriate Quality Assurance (QA) system on site. The Employer's Representative will audit the Contractor's quality assurance (QA) system on a regular basis to verify that adequate independent checks and tests are being carried out and to ensure that the Contractor's own control is sufficient to identify any possible quality problems which could cause a delay or failure.

The Contractor shall ensure that efficient supervisory staff, the required transport, instruments, equipment and tools are available to control the quality of his own workmanship in accordance with his QA-system. His attention is drawn to the fact that it is not the duty of the Employer's Representative or the Employer's Representative Assistant to act as foreman or surveyor.

PS 15 MANAGEMENT OF THE ENVIRONMENT 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 were directed by the Employer's Representative.

PS 15.1 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 16 HEALTH AND SAFETY EMPLOYER'S HEALTH AND SAFETY SPECIFICATION

The Employer's Health and Safety Specification is included in Part C3.4: Particular Specifications and Part C3.6 Annexures.

PS 17 DEALING WITH WATER

The Contractor shall take adequate precautions for the protection of the works from stormwater runoff during periods of prolonged heavy rainfall. The Contractor shall be responsible for dealing with all water during construction from whatever source, and the cost of all dewatering, shall be deemed to be included in the tendered rates.

The Contractor shall provide temporary stormwater drainage, and due cognisance must be taken of the highly erodible nature of the insitu material.

The Contractor shall be responsible for all repair works necessary to reinstate any damage caused by stormwater runoff to the requirements of this specification, subject to the approval of the Employer's Representative.

PS 18 ROAD REINSTATEMENT

The Contractor will be required to reinstate existing roads and driveways to the existing level of service i.e. like for like replacement of insitu material, layer works and surfacing. Provision has been made in the Bill of Quantities for these items.

PS 19 LEVEL WORKING PLATFORM TO FACILITATE METER INSTALLATION

The Contractor shall excavate in embankments to create a level working platform where new meters are being installed on steep terrain, this Clause is to be read with PS 7.7.

PS 20 METHOD STATEMENTS

The Contractor shall furnish the Employer's Representative with a method statement for all construction activities and in particular, but not limited to, water shut downs requests within adequate time, meter assembly tie-ins, traffic management techniques in congested areas as result of construction, method of application of tape wrap systems, method of repair of external coatings, method of repair of internal epoxy lining, method of effecting hydraulic compaction of fill around pipe, dealing with water, blasting, etc.).

Method statements shall be submitted to the Employer's Representative with the programme for construction. Method statements shall be in sufficient detail for the Employer's Representative to determine their practicality and suitability and as a minimum shall include details of construction methods, work methods, plant and equipment particulars including details of critical standby equipment.

Method statements shall refer to Quality Control plans in order to assess suitability of same for the execution of the works in terms of the set Quality Control standards.

Method statements shall be cross referenced to the relevant Quality Control documentation and upon evaluation of the programme for construction, the method statements and quality Control documentation shall support the programme in order for the Employer's Representative to realistically evaluate the programme.

The Contractor is to provide EWS operations and the Employer's Representative a method statement and risk assessment per reservoir shutdown and meter installation, this is to be provided to EWS Operations with a minimum 14 day notice period.

PS 21 ATTENDANCE AT SITE MEETINGS

The Contractor and Sub-Contractors shall attend regular site meetings as and when these are required by the Employer's Representative. The objectives of such meetings will be to review progress and ensure compliance with the programme, discuss, and where possible solve any problems that may arise and generally liaise with all parties concerned with the works.

The cost of attending such meetings shall be included in the Tendered Price and instructions given by the Employer's Representative at such meetings and confirmed in the minutes shall be

considered as a written instruction by the Employer's Representative, as referred to in the General Conditions of Contract. Site Meetings will generally be held once every month.

PS 22 CERTIFICATES OF PAYMENT

The statement to be submitted by the Contractor in terms of the General Conditions of Contract shall be prepared in accordance with the standard payment certificate prescribed by the Employer's Representative and shall consist of one (1) original set of A4-sized paper copy. Payment Certificates shall be submitted to the Employer's Representative for approval by the 20th of each month.

The Contractor's submission is to include all required backup documentation to substantiate his Targeted Procurement goals.

All costs resulting from the preparation and submission of the statements shall be borne by the Contractor.

The Contractor is to keep a photographic record of the following activities per site, which is to be submitted with each payment certificate or as required by the Employer's Representative:

Site handovers;

Exposed pipework prior to tie-ins;

All pipework installed;

All stages of construction

PS 23 PROCUREMENT AND FREE ISSUE ITEMS

The Contractor will be expected to procure materials as per project requirements for the duration of the Contract should the Employer not be able to supply the Contract with materials. The Contractor must make provision for this in his tendered rates.

PS 24 MATERIALS SUPPLIED BY THE EMPLOYER

The Employer shall supply all materials for the project if they are available to the contractor. Once the materials are delivered to site, the Employer's Representative is to be notified in order that arrangements may be made for the inspection of the materials. No materials are to be utilised until they have been accepted by the Employer's Representative in writing. Such written acceptance shall not prejudice the right of the Employer's Representative to reject such materials should they be shown to be defective at a later stage.

PS 25 PROCEDURE FOR THE COLLECTION OR WITHDRAWAL OF MATERIALS

The following Clause is to be read in conjunction with Clause PS 1.4.1. The Contractor will be required to take delivery of all free issue materials from the Employer and store the materials at his own storage facility. The Contractor's rate for collection of the materials from the supplier is to include for collection, handling, transport, off-load and store at Contractor's own storage facility. The Contractor must supply craneage where required.

PS 26 OWNERSHIP OF MATERIALS ONCE COLLECTED BY CONTRACTORS

All materials supplied by the Employer as free issue items remain the property of the Employer even after being collected by the Contractor. However, the Contractor shall become fully responsible for these materials once he has drawn them from the Employer.

An item has been allowed for ensuring the materials supplied by the Employer. However, should the Contractor wish to receive additional payment for the responsibility of accepting the materials, he may include an additional item at the end of the Preliminary and General section of the Schedule of Quantities.

PS 27 LOSSES OF AND DAMAGE TO MATERIALS

It shall be the responsibility of the Contractor to check, on receiving, the condition of all materials supplied to him by the Employer. All defects shall be recorded on the delivery forms and the Employer's Representative shall be notified in writing. The Employer will then: replace the defective materials, or repair the defective materials, or instruct the Contractor to repair the materials at the Employer's cost.

However, should the Employer's Representative not be notified in writing of any defective or damaged materials, it will be assumed that all materials were handed over to the Contractor in sound condition. Any damage reported thereafter will be to the Contractor's account.

The Contractor shall be responsible for any loss of materials supplied by the Employer.

PS 28 RETURN OF MATERIALS

The Contractor shall be responsible for the return of all surplus materials or old fittings (Old meters, pipework, etc) to the Employer's stores at Halifax Road, Pinetown or where directed by the Employer's Representative.

Contractors are to note that materials may only be returned to the stores/pipe yard between 08h00 and 14h00 on weekdays and must notify the Employer's Representative of their intention to do so. This shall include for the provision of craneage at the Employer's store/pipe yard for the off-loading of all material.

PS 29 STORAGE AREAS AND PIPE YARDS

The Contractor shall store all items so that no damage occurs whilst awaiting installation and shall provide safe and secure storage facility with 24-hour security for the duration of the contract to store free issue items. The storage facility location will be at the discretion of the Contractor but preferably within the supply region where the Contractor is working (Central, North, South or West supply region) and must allow for craneage access for offloading and loading if required.

No stacking of the meters will be allowed. The rate for storage of free issue items is to include for the storage facility, security and craneage.

The Contractor shall take full responsibility for the safety and security of all meters and materials once collected from the Employer. The Contractor's attention is drawn to the clauses "Losses of and Damages to Materials" and "Damage to Coating and Lining" in respect of pipes stored in this area.

PS 30 PRACTICAL COMPLETION

Practical Completion of the works General Conditions of Contract, 2015, Clause 5.14.1

PS 31 PRACTICAL COMPLETION FOR ANY INDIVIDUAL INSTALLATION

Practical Completion for any individual installation will be certified when the meter assembly installation complies with the requirements of the specifications and scope of works, with the Employer able to take beneficial occupation of the meter installation and when the meter has been captured on the Revenue Management System on a "Connection Number" as provided for the meter installation.

PS 32 PRACTICAL COMPLETION OF THE WHOLE OF THE WORKS

Practical Completion of the whole of the Works means that all individual metering installations as defined in the Contract have reached a state of readiness and is beneficially used by the Employer, fit for intended use and all reinstatements have been completed. No further work may be outstanding at any of the individual installations.

PSMA METER SPECIFICATIONS**PSMA1 ULTRASONIC FLOW METER SPECIFICATION**

- 1) The flow meter shall be the in-line ultrasonic type comprising of a minimum of 2 pair of sensors and either remote or integral microprocessor-based converter unit. The system shall be inherently bi-directional with separate isolated analogue (4-20mA) and pulse outputs (voltage free) for forward and reverse flow.

The flow meter shall have no moving parts to ensure that there is no damage from particulate matter e.g., stones etc.

The meter and transmitter shall be suitable for 24 volts D.C. without the need for link setting or voltage selection.

The system accuracy shall be equal to or better than $\pm 0.5\%$ of measured value under reference conditions irrespective of flow direction with a flow range of 0.01 m/s to 20 m/s full scale (i.e. 2000:1 turndown). Repeatability shall be equal to or better than $\pm 0.1\%$.

The meters shall be suitable for a maximum working temperature of 180°C at pressures up to 16 bars or as limited by the flange rating.

Tenderers must provide full details of the minimum lengths of straight pipe required upstream and downstream from each type of perturbation, so that the accuracy of the meters remains within the specified accuracies.

The specification is based off minimum installation of straight pipe requirement of 5 x meter diameter upstream from the flow meter and 3 x meter diameter downstream from the flow meter. An additional item has been allowed for in the Bill of Materials to increase the minimum straight pipe requirements for the supply of meters by the Contractor.

The meter performance shall have been verified using wetted calibration with potable water on a fully traceable test facility that is internationally accepted. Laboratory traceability packs shall be available on request.

The meter shall be designed and manufactured under the ISO 9000 series of quality standards. It shall also have a meter body length to current ISO standard for in-line ultrasonic flow meters to facilitate interchangeability of product.

The wetted materials shall be compatible with, and suitable for, use on potable water. The liner shall be certified by an internationally recognised body such as AWWA or equivalent.

The transmitter unit shall be protected to a minimum IP67 and must be of remote version type to be wall mounted. Cabling between the signal transmitter shall be by one 6 core screened cable providing both power and measurement signal from the flowmeter sensor to the flow meter transmitter. Cabling between the signal transmitter and meter shall be maximum length of 10 metres. The signal transmitter must be fitted with built in communication interface with the integral MODBUS protocols.

No converters will be accepted. The signal transmitter display shall indicate user-defined flowrate, flow total and sonic velocity units. The device shall incorporate a menu selection

allowing range, unit's etc to be made. Data shall be stored in a non-volatile memory. There shall be independent totaliser displays to give forward total, reverse total, nett totals, time and date.

The meter software shall incorporate multi password protection to prevent inadvertent or fraudulent programming or units of measurement changes. The meter supplier must have a proven traceable track record of providing the backup service to the meters should the need arise to minimise down times as well as have the necessary repair facilities locally to have the meters repaired.

All inputs and outputs to be galvanically isolated from the power supply. All pulse/status outputs and Analogue 4-20 mA output to be fully galvanically separated. The flow sensor shall be rated to IP68 and be suitable to indefinite submergence to a depth of up to 10m.

The sensor shall also be suitable for installation in underground pipes without the need for a metering chamber, vault or pit (i.e., it shall be capable of direct burial). The Tenderer shall, on request, provide evidence of satisfactory operation of similar sensors for a minimum period of 5 years in buried installations.

The flow meter shall have an additional burial coating to the standard meter coating for protection of the meter for all buried/ sub soil installations. Be suitable for use under a maximum pressure as stated in the Bill of Quantities and flanged to SANS 1123 or EN 1092-1;

C3.3: STANDARD SPECIFICATIONS

- C3.3.1** The Specifications on which this contract is based are the eThekweni 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
DA	Earthworks: Bulk	January	1985
DB	Earthworks for Pipe Trenches	July	1992
ED	Road Asphalt	July	1992
EF	Kerbs and Haunches	July	1992
EG	Sidewalks, Footpaths and Median Areas	July	1992
F	Protection Works	July	1992
S	Reinstatement	March	1993
TA	Road Signs	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 ED	Road Asphalt
PS EF	Kerbs and Haunches
PS EG	Sidewalks, Footpaths and Median Areas
PS F	Protection Works
PS PF	Pressure Pipelines: other than Steel
PS PG	Non Pressure Pipelines and Pc Culverts
PS S	Reinstatement
PS TA	Road Signs
PS TB	Road Markings

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 - OHSA 1993 Safety Specification
(26 Pages)
- C3.4.2 Standard Environmental Management Plan for Civil Engineering Construction Works
(24 Pages)

PAM: OHSA 1993 HEALTH AND SAFETY SPECIFICATION PAM-1: SCOPE

This specification covers the health and safety requirements to be met by the Contractor to ensure a continued safe and healthy environment for all workers, employees and subcontractors under his control and for all other persons entering the site of works.

This specification shall be read with the Occupational Health and Safety Act (Act No 85 and amendment Act No 181) 1993, and the corresponding Construction Regulations 2003, and all other safety codes and specifications referred to in the said Construction Regulations.

In terms of the OHSA Agreement included in Section T2.2.3 of the Contract document, the status of the Contractor as mandatory to the Employer (Client) is that of an Employer in his own right, responsible to comply with all provisions of OHSA 1993 and the Construction Regulations 2003.

This safety specification and the Contractor's own Safety Plan as well as the Construction Regulations 2003, shall be displayed on site or made available for inspection by all workers, employees, inspectors and any other persons entering the site of works.

The following are possible risks associated with this project:

- Potentially dangerous existing services, i.e. water and sewerage mains, electrical high voltage cables buried and overhead,
- Deep excavations in soils requiring shoring or reducing of slopes,
- Movement of construction vehicles on site, taking into consideration steep slopes, other traffic and existing services,
- Exposure to possible injuries due to mishandling or failure of power and hand tools,
- Risks related to general safety and security on site.

Additional risks may arise from specific methods of construction selected by the Contractor which are not necessary covered in the above.

PAM-2: DEFINITIONS

For the purpose of this Contract the following shall apply:

- (a) "Employer" where used in the contract documents and in this specification, means the Employer as defined in the General Conditions of Contract and it shall have the exact same meaning as "Client" as defined in the Construction Regulations 2003. "Employer" and "Client" is therefore interchangeable and shall be read in the context of the relevant document.
- (b) "Contractor", wherever used in the contract documents and in this specification, shall have the same meaning as "Contractor" as defined in the General Conditions of Contract.

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

For the purpose of this Contract the Contractor will, in terms of OHSA 1993, be the mandatory, without derogating from his status as an Employer in his own right.

- (c) "Engineer" where used in this specification, means the Engineer as defined in the General Conditions of Contract. In terms of the Construction Regulations the Engineer may act as agent on behalf of the

Employer (the Client as defined in the Construction Regulations).

(d) **PAM-3: TENDERS**

The Contractor shall submit the following with his tender:

- (a) a documented Health and Safety Plan as stipulated in Regulation 5 of the Construction Regulations. The Safety Plan must be based on the Construction Regulations 2003 and will be subject to approval by the Employer;
- (b) a declaration to the effect that he has the competence and necessary resources to carry out the work safely in compliance with the Construction Regulations 2003;
- (c) a declaration to the effect that he made provision in his tender for the cost of the health and safety measures envisaged in the Construction Regulations.
- (d) Failure to submit the foregoing with his tender, will lead to the conclusion that the Contractor will not be able to carry out the work under the Contract safely in accordance with the Construction Regulations.

PAM-4: NOTIFICATION OF COMMENCEMENT OF CONSTRUCTION WORK

After award of the Contract, but before commencement of construction work, the Contractor shall, in terms of Regulation 3, notify the Provincial Director of the Department of Labour in writing if the following work is involved:

- (a) the demolition of structures and dismantling of fixed plant of height of 3,0 m or more;
- (b) the use of explosives;
- (c) construction work that will exceed 30 days or 300 person-days;
- (d) excavation work deeper than 1,0 m; or
- (e) working at a height greater than 3,0 m above ground or landings.

The notification must be done in the form of the pro forma included in "Forms to be Completed by Successful Tenderer" of the tender document.

A copy of the notification form must be kept on site, available for inspection by inspectors, Employer, Engineer, employees and persons on site.

PAM-5: RISK ASSESSMENT

Before commencement of any construction work during the construction period, the Contractor shall have a risk assessment performed and recorded in writing by a competent person. (Refer Regulation 7 of the Construction Regulations 2003).

The risk assessment shall identify and evaluate the risks and hazards that may be expected during the execution of the work under the Contract, and it shall include a documented plan of safe work procedures to mitigate, reduce or control the risks and hazards identified.

The risk assessment shall be available on site for inspection by inspectors, Employer, Engineer, subcontractors, employees, trade unions and health and safety committee members, and must be monitored and reviewed periodically by the Contractor.

PAM-6: APPOINTMENT OF EMPLOYEES AND SUBCONTRACTORS

PAM-6.1 Health and Safety plan

The Contractor shall appoint his employees and any subcontractors to be employed on the Contract, in writing, and he shall provide them with a copy of his documented Health and Safety Plan, or relevant sections thereof. The Contractor shall ensure that all subcontractors and employees are committed to the implementation of his Safety Plan.

PAM-6.2 Health and Safety induction training

The Contractor shall ensure that all employees under his control, including subcontractors and their employees, undergo a health and safety induction training course by a competent person before commencement of construction work. No visitor or other person shall be allowed or permitted to enter the site of the works unless such person has undergone health and safety training pertaining to hazards prevalent on site.

The Contractor shall ensure that every employee on site shall at all times be in possession of proof of the health and safety induction training issued by a competent person prior to commencement of construction work.

PAM-7: APPOINTMENT OF SAFETY PERSONNEL**PAM-7.1: Construction Supervisor**

The Contractor shall appoint a full-time Construction Supervisor with the duty of supervising the performance of the construction work.

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

PAM-7.2: Construction safety officer

Taking into consideration the size of the project and the hazards or dangers that can be expected, the Contractor shall appoint in writing a full-time or part-time Construction Safety Officer if so decided by the Inspector of the Department of Labour. The Safety Officer shall have the necessary competence and resources to perform his duties diligently.

Provision shall be made by the Contractor in his rates, to cover the cost of this dedicated construction safety officer appointed after award of the contract.

PAM-7.3: Health and Safety representatives

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

The number of health and safety representatives for a workplace shall be at least one for every 100 employees.

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

PAM-7.4: Health and Safety committee

In terms of Sections 17 and 18 of the Act (OHSA 1993) the Contractor (as Employer), shall establish one or more health and safety committee(s) where there are two or more health and safety representatives at a workplace. The persons selected by the Contractor to serve on the committee shall be designated in writing.

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

PAM-7.5: Competent persons

In accordance with the Construction Regulations the Contractor has to appoint in writing competent persons responsible for supervising construction work on each of the following work situations that may be expected on the site of the works.

- (a) Risk assessment and induction training as described in Regulation 7 of the Construction Regulations;
- (b) Fall protection as described in Regulation 8;
- (c) Formwork and support work as described in Regulation 10;
- (d) Excavation work as described in Regulation 11;
- (e) Demolition work as described in Regulation 12;
- (f) Scaffolding work as described in Regulation 14;
- (g) Suspended platform operations as described in Regulation 15;
- (h) Material hoists as described in Regulation 17;
- (i) Batch plant operations as described in Regulation 18;
- (j) Explosive powered tools as described in Regulation 19;
- (k) Cranes as described in Regulation 20;
- (l) Construction vehicle and mobile plant inspections on a daily basis by a competent person as described in Regulation 21(1);
- (m) Control of all temporary electrical installations on the construction site as described in Regulation 22.
- (n) Stacking and storage on construction sites as described in Regulation 26; and
- (o) Inspections of fire equipment as described in Regulation 27.

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

The appointment of competent persons to supervise parts of the construction work does not relieve the Contractor from any of his responsibilities to comply with all requirements of the Construction Regulations.

PAM-8: RECORDS AND REGISTERS

In accordance with the Construction Regulations the Contractor is bound to keep records and registers related to health and safety on site for periodic inspection by inspectors, the Engineer, the Employer, trade union officials and subcontractors and employees. The following records and registers must be kept on site and shall always be available for inspection.

- (a) A copy of the OHSA 1993 Construction Regulations 2003;
- (b) A copy of this Health and Safety Specification;
- (c) A copy of the Contractor's Health and Safety Plan (Regulation 4);
- (d) A copy of the Notification of Construction Work (Regulation 3);
- (e) A health and safety file in terms of Regulation 5(7) with inputs by the Construction Safety Officer [Regulation 6(7)];
- (f) A copy of the risk assessment described in Regulation 7;
- (g) A full protection plan and the corresponding records of evaluation and training of employees working from elevated positions as described in Regulation 8;
- (h) Drawings pertaining to the design of structures [Regulation 9(3)] and formwork and support work structures [Regulation 10(d)] must be kept on site;
- (i) Pronouncement of the safety of excavations must be recorded in a register to be kept on site [Regulation 11(3)(h)];
- (j) A copy of the certificate of the system design for suspended platforms [Regulation 15(3)];
- (k) A notice must be affixed around the base towers of material hoists to indicate the maximum mass load, which may be carried at any one time by material hoists [Regulation 7(5)].
- (l) Maintenance records of material hoists and inspection results must be kept in a record book to be kept on site [Regulation 17(8)];
- (m) A record of any repairs to or maintenance of a batch plant must be kept on site [Regulation 18(9)];
- (n) A warning notice must be displayed in a conspicuous manner when and wherever an explosive powered tool is used [Regulation 19(2)];
- (o) A register for recording of findings by the competent person appointed to inspect construction vehicles and mobile plant [Regulation 21(1)(j)].

PAM-9: CONTRACTOR'S RESPONSIBILITIES

For this Contract the Contractor will be the mandatory of the Employer (Client), as defined in the Act (OHSA 1993), which means that the Contractor has the status of Employer in his own right in respect of the Contract. The Contractor is therefore responsible for all the duties and obligations of an Employer as set out in the Act (OHSA 1993) and the Construction Regulations 2003.

Before commencement of work under the Contract, the Contractor shall enter into an agreement with the Employer (Client) to confirm his status as mandatory (Employer) for the Contract under consideration.

The Contractor's duties and responsibilities are clearly set out in the Construction Regulations 2003 and are not repeated in detail but some important aspects are highlighted hereafter, without relieving the Contractor of any of his duties and responsibilities in terms of the Construction Regulations.

- (a) Contractor's position in relation to the Employer (Client) (Regulation 4)

In accordance with Section 4 of the Regulations, the Contractor shall liaise closely with the Employer or the Engineer on behalf of the Employer, to ensure that all requirements of the Act and the Regulations are met and complied with.

- (b) The Principal Contractor and Contractor (Regulation 5)

The Contractor is in terms of the definition in Regulation 2(b) the equivalent of Principal Contractor as defined in the Construction Regulations, and he shall comply with all the provisions of Regulation 5.

Any subcontractors employed by the Contractor must be appointed in writing, setting out the terms of the appointment in respect of health and safety. An independent subcontractor shall however provide and demonstrate to the Contractor a suitable, acceptable and sufficiently documented health and safety plan before commencement of the subcontract. In the absence of such a health and safety plan the subcontractor shall undertake in writing that he will comply with the Contractor's safety plan, the health and safety specifications of the Employer and the Construction Regulations 2003.

(c) Supervision of construction work (Regulation 6)

The Contractor shall appoint the safety and other personnel and employees as required in terms of Regulation 6 and as set out in PAM-7 above. Appointment of those personnel and employees does not relieve the Contractor from any of the obligations under Regulation 6.

(d) Risk assessment (Regulation 7)

The Contractor shall have the risk assessment made as set out in PAM-7 above before commencement of the work, and it must be available on site for inspection at all times. The Contractor shall consult with the health and safety committee or health and safety representative(s) etc. on a regular basis to ensure that all employees, including subcontractors under his control, are informed and trained by a competent person regarding health hazards and related work procedures.

No subcontractor, employee or visitor shall be allowed to enter the site of works without prior health and safety induction training, all as specified in Regulation 7.

(e) Fall protection (Regulation 8)

Fall protection, if applicable to this Contract shall comply in all respects with Regulation 8 of the Construction Regulations.

(f) Structures (Regulation 9)

The Contractor will be liable for all claims arising from collapse or failure of structures if he failed to comply with all the specifications, project specifications and drawings related to the structures, unless it can be proved that such collapse or failure can be attributed to faulty design or insufficient design standards on which the specifications and the drawings are based.

In addition the Contractor shall comply with all aspects of Regulation 9 of the Construction Regulations.

(g) Formwork and support work (Regulation 10)

The Contractor will be responsible for the adequate design of all formwork and support structures by a competent person.

All drawings pertaining to formwork shall be kept on site and all equipment and materials used in formwork, shall be carefully examined and checked for suitability by a competent person.

The provisions of Regulation 10 of the Construction Regulations shall be followed in every detail.

(h) Excavation work (Regulation 11)

It is essential that the Contractor shall follow the instructions and precautions in the Standard Specifications and Project Specifications as well as the provisions of the Construction Regulations to the letter as unsafe excavations can be a major hazard on any construction site. The Contractor shall therefore ensure that all excavation work is carried out under the supervision of a competent person, that inspections are carried out by a Professional Engineer or Technologist, and that all work is done in such a manner that no hazards are created by unsafe excavations and working conditions.

Supervision by a competent person will not relieve the Contractor from any of his duties and responsibilities under Regulation 11 of the Construction Regulations.

(i) Demolition work (Regulation 12)

Whenever demolition work is included in a Contract, the Contractor shall comply with all the requirements of Regulation 12 of the Construction Regulations. The fact that a competent person has to be appointed by the Contractor, does not relieve the Contractor from any of his responsibilities in respect of safety of demolition work.

(j) Tunnelling (Regulation 13)

The Contractor shall comply with Regulation 13 wherever tunnelling of any kind is involved.

(k) Scaffolding (Regulation 14)

The Contractor shall ensure that all the provisions of Regulation 14 of the Construction Regulations are complied with. [Note : Reference in the Regulations to “Section 44 of the Act” should read “Section 43 of the Act”]

(l) Suspended platforms (Regulation 15)

Wherever suspended platforms will be necessary on any Contract, the Contractor shall ensure that copies of the system design issued by a Professional Engineer are submitted to the Engineer for inspection and approval. The Contractor shall appoint competent persons as supervisors and competent scaffold erectors, operators and inspectors and ensure that all work related to suspended platforms are done in accordance with Regulation 15 of the Construction Regulations.

(m) Boatswain's chairs (Regulation 16)

Where boatswain's chairs are required on the construction site, the Contractor shall comply with Regulation 16.

(n) Material Hoists (Regulation 17)

Wherever applicable, the Contractor shall comply with the provisions of Regulation 17 to the letter.

(o) Batch plants (Regulation 18)

Wherever applicable, the Contractor shall ensure that all lifting machines, lifting tackle, conveyors, etc. used in the operation of a batch plant shall comply with, and that all operators, supervisors and employees are strictly held to the provisions of Regulation 18. The Contractor shall ensure that the General Safety

Regulations (Government Notice R1031 of 30 May 1986), the Driven Machinery Regulations (Government Notice R295 of 26/2/1988) and the Electrical Installation Regulations (Government Notice R2271 of 11/10/1995) are adhered to by all involved.

In terms of the Regulations, records of repairs and maintenance shall be kept on site.

(p) Explosive powered tools (Regulation 19)

The Contractor shall ensure that, wherever explosive-powered tools are required to be used, all safety provisions of Regulation 19 are complied with.

It is especially important that warning notices are displayed and that the issue and return of cartridges and spent cartridges be recorded in a register to be kept on site.

(q) Cranes (Regulation 20)

Wherever the use of tower cranes becomes necessary, the provisions of Regulation 20 shall be complied with.

(r) Construction vehicles and mobile plant (Regulation 21)

The Contractor shall ensure that all construction vehicles and plant are in good working condition and safe for use, and that they are used in accordance with their design and intended use. The vehicles and plant shall only be operated by workers or operators who have received appropriate training, all in accordance with all the requirements of Regulation 21.

All vehicles and plant must be inspected on a daily basis, prior to use, by a competent person and the findings must be recorded in a register to be kept on site.

(s) Electrical installation and machinery on construction sites (Regulation 22)

The Contractor shall comply with the Electrical Installation Regulations (Government Notice R2920 of 23 October 1992) and the Electrical Machinery Regulations (Government Notice R1953 of 12 August 1993). Before commencement of construction, the Contractor shall take adequate steps to ascertain the presence of, and guard against dangers and hazards due to electrical cables and apparatus under, over or on the site.

All temporary electrical installations on the site shall be under the control of a competent person, without relieving the Contractor of his responsibility for the health and safety of all workers and persons on site in terms of Regulation 22.

(t) Use of temporary storage of flammable liquids on construction sites (Regulation 23)

The Contractor shall comply with the provisions of the General Safety Regulations (Government Notice R1031 of 30 May 1986) and all the provisions of Regulation 23 of the Construction Regulations to ensure a safe and hazard-free environment to all workers and other persons on site.

(u) Water environments (Regulation 24)

Where construction work is done over or in close proximity to water, the provisions of Regulation 24 shall apply.

(v) Housekeeping on Construction sites (Regulation 25)

Housekeeping on all construction sites shall be in accordance with the provisions of the environmental Regulations for workplaces (Government Notice R2281 of 16 October 1987) and all the provisions of Regulation 25 of the Construction Regulations.

(w) Stacking and storage on construction sites (Regulation 26)

The provisions for the stacking of articles contained in the General Safety Regulations (Government Notice R1031 of 30 May 1986) as well as all the provisions of Regulation 26 of the Construction Regulations shall apply.

(x) Fire precautions on construction sites (Regulation 27)

The provisions of the Environmental Regulations for Workplaces (Government Notice R2281 of 16 October 1987) shall apply.

In addition the necessary precautions shall be taken to prevent the incidence of fires, to provide adequate and sufficient fire protection equipment, sirens, escape routes etc. all in accordance with Regulation 27 of the Construction Regulations.

(y) Construction welfare facilities (Regulation 28)

The Contractor shall comply with the construction site provisions as in the Facilities Regulations (Government Notice R1593 of 12 August 1988) and the provisions of Regulation 28 of the Construction Regulations.

(z) Non-compliance with the Construction Regulations 2003

The foregoing is a summary of parts of the Construction Regulations applicable to all construction projects.

The Contractor, as Employer for the execution of the Contract, shall ensure that all provisions of the Construction Regulations applicable to the Contract under consideration are complied with to the letter.

Should the Contractor fail to comply with the provisions of the Regulations 3 to 28 as listed in Regulation 30, he will be guilty of an offence and will be liable, upon conviction, to the fines or imprisonment as set out in Regulation 30.

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

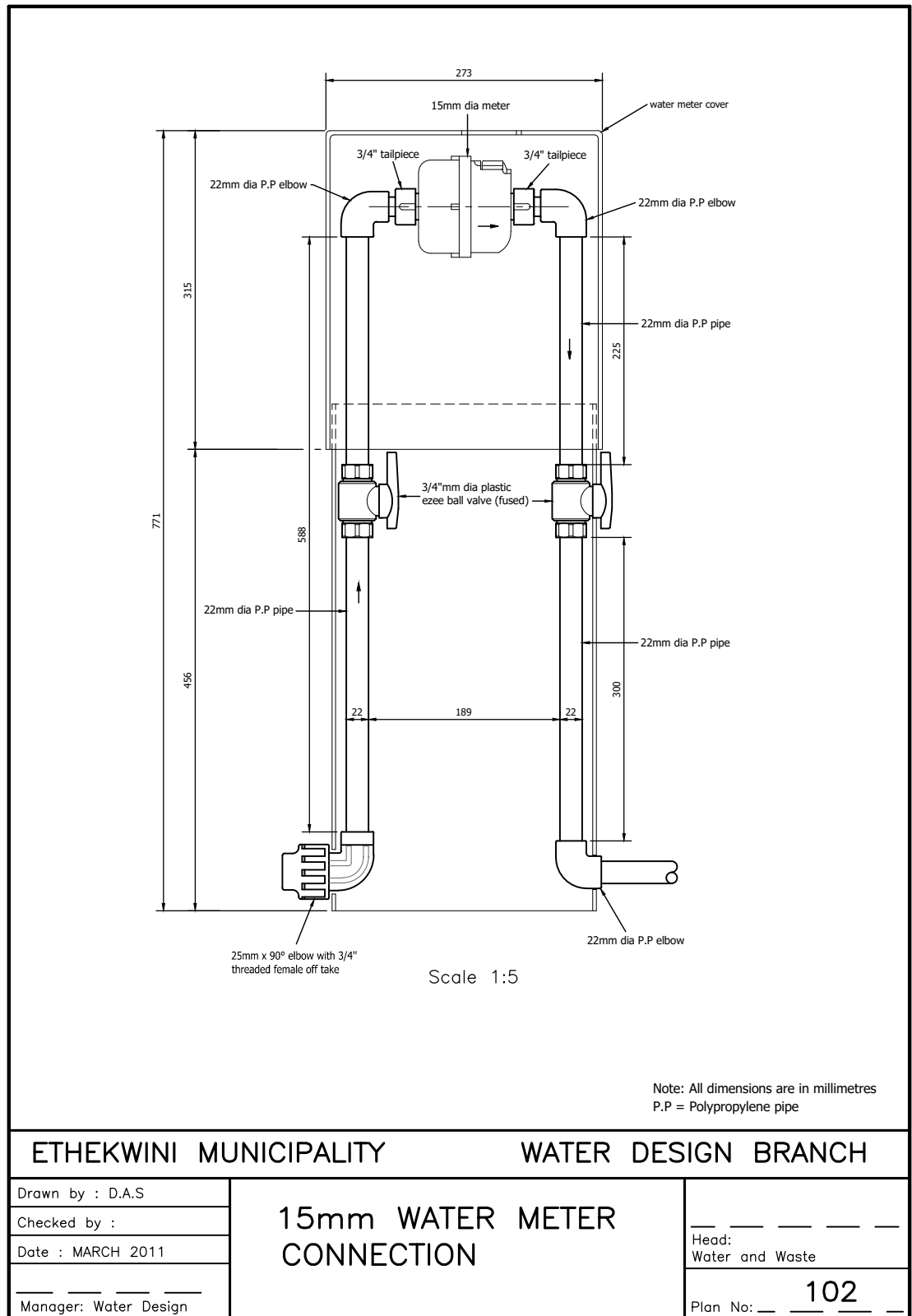
PAM-10: MEASUREMENT AND PAYMENT

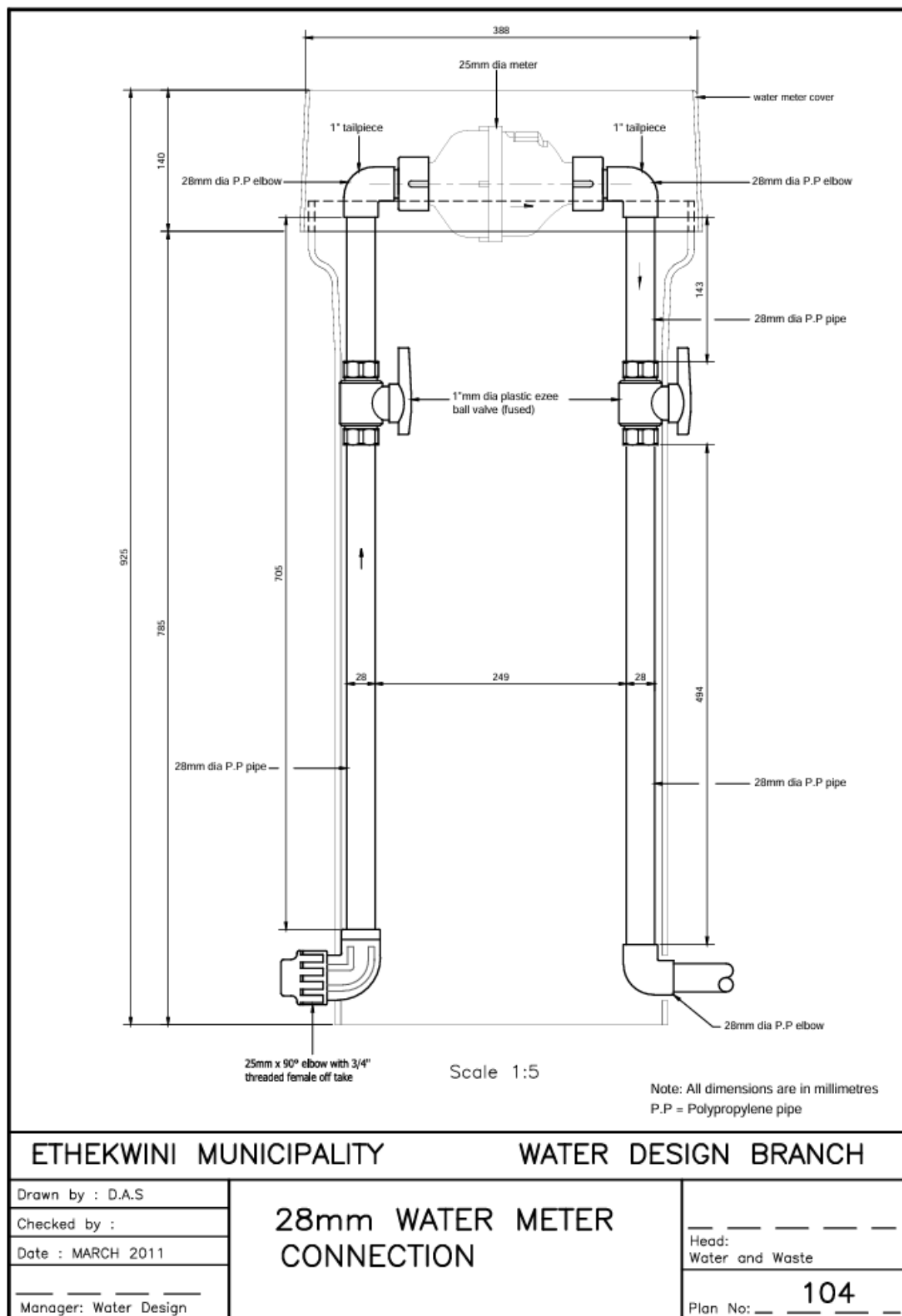
PAM-10.1: These items have been included in the Bill of Quantities to comply with the above mentioned specifications

C3.5: CONTRACT AND STANDARD DRAWINGS**C3.5.1 CONTRACT DRAWINGS / DETAILS****C3.5.2 STANDARD DRAWINGS**

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

Dwg No	Description	Date of Issue	
072056	Sheet1 Consumer Meter Connection	February	2015
072056	Sheet2 Rev1 Consumer Meter Connection	February	2015
072056	Sheet3 Rev1 Consumer Meter Connection	February	2015
072056	Sheet4 Rev1 Consumer Meter Connection	February	2015
072056	Sheet5 Rev1 Consumer Meter Connection	February	2015
045483	50 - 150 Dirt Box Detail Rev4	August	2003
045484	200 – 400 Dirt Box Detail Rev5	August	2003
28	No 5 Valve Cover	July	2007
6	Precast Concrete Valve Spacer rings	June	2007

C3.6: ANNEXURES





FLOW

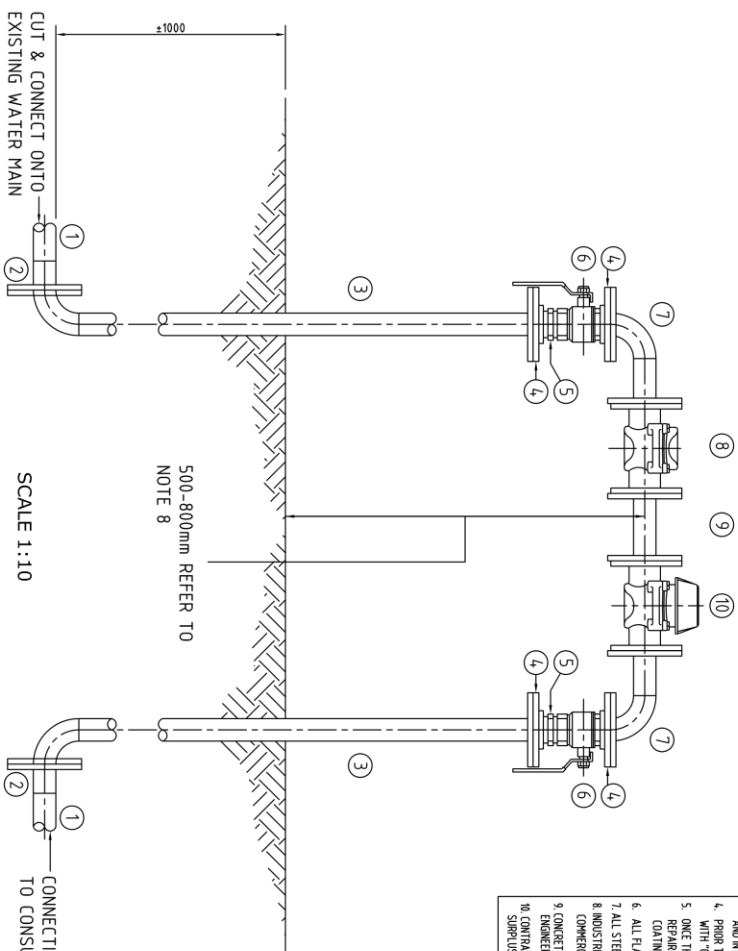


TABLE :2

ITEM No.	DESCRIPTION	DIMENSIONS	QUANTITY
1	EXISTING 50mm WATER MAIN		2
2	50mm FLANGE ADAPTOR TO SUIT		2
3	50mm x 90° BEND WITH STEEL SPOOL, PREC. F.B.E. (SPOOL LENGTH Varies-REFER TO NOTE 8)		2
4	50mm THREADED LOOSE FLANGE (TABLE 600)		4
5	50mm STAINLESS STEEL NUT/PLATE		2
6	50mm BALL VALVE (N/F)		2
7	50mm x 90° BEND WITH STEEL SPOOL, PREC. WELDED LONG F.B.E.		2
8	50mm STAINLESS STEEL SPOOL, PREC. F.B.E.		1
9	50mm STAINLESS STEEL SPOOL, PREC. F.B.E.		1
10	50mm BALL VALVE (N/F)		1

TABLE :1

COATING/LINING	COLOR	REPAIR MEDIUM
COPON KSR 88	RED/BLUE	COPON HYCOTE 151
FUSION BONDED EPOXY (F.B.E.)	GREEN	COPON HYCOTE 151
FUSION BONDED MEDIUM DENSITY POLYETHYLENE (F.B.M.D.P.E.)	BLACK	COPON HYCOTE 151
COPON	RED	COPON HYCOTE 151
SOLVENT FREE/ADHESIVE EPOXY (S.F.E./S.B.E.)	BLUE/RED/ GREY	COPON HYCOTE 151
CEMENT MORTAR	GREY	EPIDERMIX 338
RIL SAN	BLACK	RIL SAN REPAIR KIT

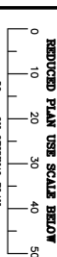
- NOTES
1. EXACT POSITION OF METER INSTALLATION TO BE INDICATED BY ENGINEER.
 2. CONTRACTOR TO CHECK DIMENSIONS OF ALL NEW STEEL PIPE WORK PRIOR TO FABRICATION AND INSTALLATION.
 3. PRIOR TO INSTALLATION ALL FABRICATED PIPE WORK TO BE EXTERNALLY COATED AND INTERNALLY LINED WITH "RIL SAN" TO A MINIMUM DRY FILM THICKNESS OF 300 MICRONS.
 4. PRIOR TO INSTALLATION AND ASSEMBLY ANY UNCOATED FLANGE FACES TO BE COATED WITH "COPON KSR88" TO A MINIMUM DRY FILM THICKNESS OF 300 MICRONS.
 5. ONCE THE PIPE WORK HAS BEEN INSTALLED ALL DAMAGED STEEL PIPE WORK IS TO BE REPAIRED USING AN APPROVED PROCEDURE AS PER TABLE "REPAIR OF PIPE COATINGS/LININGS".
 6. ALL FLANGE DRILLING TO BE TO SABS 1123 (P/N 16).
 7. ALL STEEL PIPE TO BE IN ACCORDANCE WITH SABS 779 - MEDIUM BLACK - 6mm THICK.
 8. INDUSTRIAL AREAS - METER INSTALLATIONS TO BE 80mm ING - CL AND.
 9. CONCRETE BOLLARDS TO BE INSTALLED TO PROTECT INSTALLATION FROM TRAFFIC AS REQUIRED BY ENGINEER.
 10. CONTRACTOR TO REINSTATE EXCAVATED AREA TO ORIGINAL CONDITION & DISPOSE OF UNSUITABLE SURPLUS MATERIAL OFF SITE.

ETHEKWINI
WATER SERVICES



WATER DESIGN BRANCH

REDUCED PLAN USE SCALE BELOW



LEGEND

- EXISTING UNDERGROUND SERVICES ARE AS SHOWN BELOW.
- SEWERS AND M.F.T.S
 - STORM WATER DRAINS AND M.F.T.S
 - WATER MAINS AND VALVES
 - ELECTRICITY CABLES
 - TELECOM CABLES
 - OIL PIPERLINS

Revision Date Description

A OCT 09 ISSUED FOR SIGNATURE

Engineer NORTH POINT

UNDERGROUND SERVICES CHECKED DATE SIGNATURE

S.W. MAINS

WATER MAINS

TELECOM CABLES

ELECTRIC CABLES

S.A.B. CABLES

E.S.C. DRAINS

WORK ONLY

CONTRACTOR TO REINSTATE EXCAVATED AREA TO ORIGINAL CONDITION & DISPOSE OF UNSUITABLE SURPLUS MATERIAL OFF SITE.

Contract No.

Project No.

Planning Unit

Ward No.

Project Title: NEW STANDARD CONSUMER METER CONNECTION

Drawing Title

50mm CONSUMER METER CONNECTION

Scale: 1:10

Designed: K.E.X. Date: OCT 2009

Checked: S.S./N.N. Drawn: A.A.F.K.

Manager: NON REVENUE WATER

Director: HEAD WATER & SANITATION

N.A. Macleod Executive Director

Drawing No. 72056 Sheet 177 A

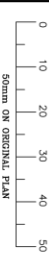


ETHEKWINI
WATER & SANITATION



WATER DESIGN BRANCH

REDUCED PLAN USE SCALE BELOW



LEGEND
EXISTING UNDERGROUND SERVICES
ARE AS SHOWN BELOW

SERVICES AND M&TS
STORM WATER DRAINS AND M&TS
WATER MAINS AND VALVES
ELECTRICITY CABLES
TELEKOM CABLES
OIL PIPELINES

CHANGES TO FITTINGS ON
PLAN 09 ISSUED FOR SIGNATURE

1 PREBOLTS 80-200mm METERS
PLAN 09 ISSUED FOR SIGNATURE

DATE: 16/01/08
DESIGNED: K.E.X.
CHECKED: S.S./N.N. DRAWN: A.F.K.

Scale: 1:20
Project Title: NEW STANDARD
CONSUMER METER CONNECTION

Project No.
Drawing Title

150mmØ CONSUMER
METER CONNECTION

Manager: NON REVENUE WATER
BSONI DEPUTY HEAD ENGINEERING

E.MSWELL: HEAD WATER & SANITATION
Drawing No: 72056
Sheet: 4/7
Rev: 1

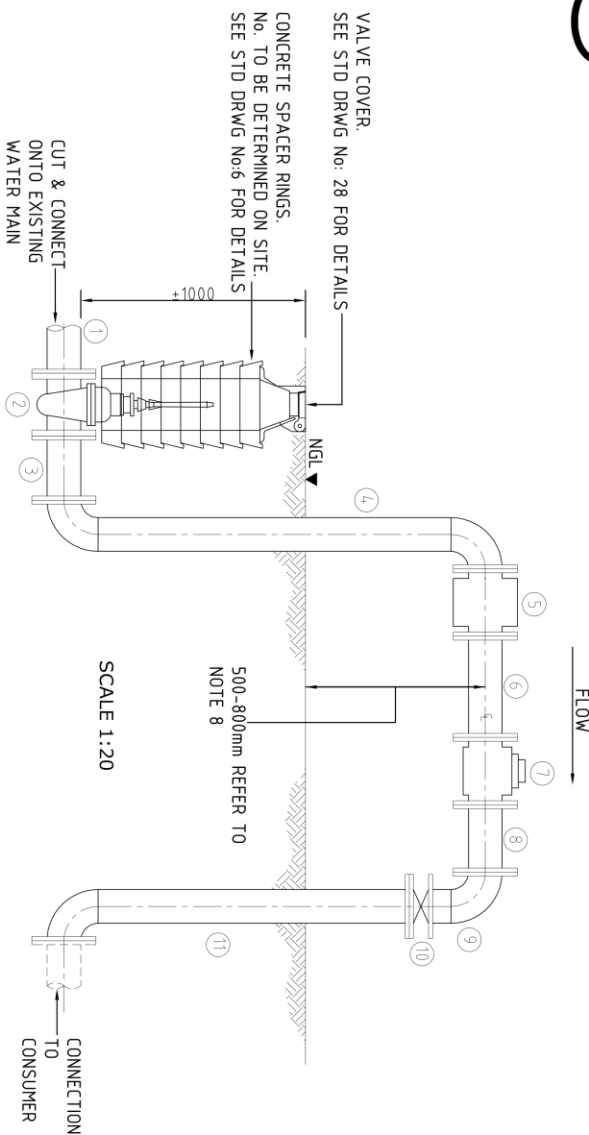


TABLE :1

REPAIR OF PIPE COATINGS/LININGS		
COATING/LINING	COLOR	REPAIR MEDIUM
COPON KSR 88	RED/BLUE	COPON HYCOTE 151
FUSION BONDED EPOXY (F.B.E)	GREEN	COPON HYCOTE 151
FUSION BONDED MEDIUM DENSITY POLYETHYLENE (F.B.M.D.P.E.)	BLACK	COPON HYCOTE 151
COPON	RED	COPON HYCOTE 151
SOLVENT FREE/BORNE EPOXY (S.F.E./S.B.E)	BLUE/RED/ GREY	COPON HYCOTE 151
CEMENT MORTAR	GREY	EPIDURMX 338
RILSAN	BLACK	RILSAN REPAIR KIT

TABLE :2

ITEM No.	DESCRIPTION	QUANTITY
1	EXISTING 150mmØ WATER MAIN	1
2	150mmØ GATE VALVE	1
3	150mmØ STEEL SPOOL, PIECE F.B.E. 250mm FLANGED DISTANCE	1
4	2 No 150mmØ 90° STEEL SHORT RADIUS BENDS WITH STEEL SPOOL, PIECE (SPOOL, PIECE LENGTH VARIES-REFER TO NOTE 8) F.B.E.	1
5	150mmØ 5 STRAINER 300mm LONG, CONFORM STRAINER TYPE, WITH ENGINEER	1
6	150mmØ STEEL SPOOL, PIECE 450mm LONG (F.B.E)	1
7	150mmØ BULK METER 300mm LONG (F.B.E)	1
8	150mmØ STEEL SPOOL, PIECE (F.B.E) REFER TO TABLE 3 FOR DIMENSIONS.	1
9	150mmØ 90° STEEL SHORT RADIUS BEND WITH 100mm LONG SPOOL, PIECE (F.B.E)	1
10	150mmØ BUTTERFLY VALVE, WAFFERED WITH FLANGES (PN16)	1
11	150mmØ 90° STEEL SHORT RADIUS BEND WITH SPOOL, PIECE (SPOOL, PIECE LENGTH VARIES-REFER TO NOTE 8) F.B.E.	1

NOTES
1. EXACT POSITION OF METER INSTALLATION TO BE INDICATED BY ENGINEER.
2. CONTRACTOR TO CONFIRM DIMENSIONS OF ALL NEW STEEL PIPE WORK PRIOR TO FABRICATION AND INSTALLATION.
3. PRIOR TO INSTALLATION ALL FABRICATED PIPE WORK TO BE EXTERNALLY COATED AND INTERNALLY LINED WITH "RILSAN" TO A MINIMUM DRY FILM THICKNESS OF 300 MICRONS, OR SIMILAR APPROVED (OSA).
4. PRIOR TO INSTALLATION AND ASSEMBLY ANY UNCOATED FLANGE FACES TO BE COATED WITH "COPON KSR88" TO A MINIMUM DRY FILM THICKNESS OF 300 MICRONS (OSA).
5. ONCE THE PIPE WORK HAS BEEN INSTALLED ALL DAMAGED STEEL PIPE WORK IS TO BE REPAIRED USING AN APPROVED PROCEDURE AS PER TABLE "REPAIR OF PIPE COATINGS/LININGS".
6. ALL FLANGE DRILLING TO BE TO SABS 1173 (PN 16).
7. ALL STEEL PIPE TO BE IN ACCORDANCE WITH SABS 719 - MEDIUM BLACK - 6mm THICK.
8. INDUSTRIAL AREAS - METER INSTALLATIONS TO BE 800mm INCL. (CL) AND.
9. CONCRETE AREAS - METER INSTALLATIONS TO BE 500mm INCL. (CL) AT ENGINEER'S DISCRETION.
10. CONTRACTOR TO RENOVATE EXCAVATED AREA TO ORIGINAL CONDITION & DISPOSE OF UNSUITABLE SURPLUS MATERIAL OFF SITE.

TABLE :3

INSTALLATION REQUIREMENT FOR DIMENSIONS IN TABLE 2		
METER TYPE	ITEM 6	ITEM 8
SENSUS	450mm	—
ELSTER KENT	450mm	300



FLOW

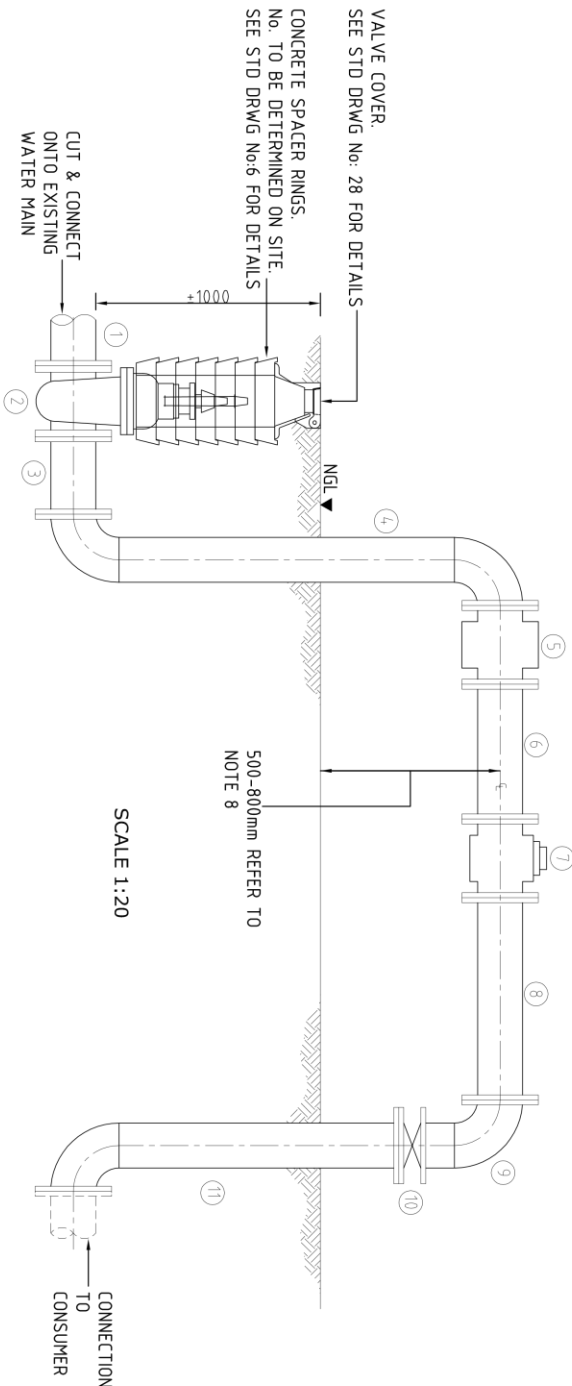


TABLE :1

REPAIR OF PIPE COATINGS/LININGS		
COATING/LINING	COLOR	REPAIR MEDIUM
COPON KSR 88	RED/BLUE	COPON HYCOTE 151
FUSION BONDED EPOXY (F.B.E.)	GREEN	COPON HYCOTE 151
FUSION BONDED MEDIUM DENSITY POLYETHYLENE (F.B.M.D.P.E.)	BLACK	COPON HYCOTE 151
COPON	RED	COPON HYCOTE 151
SOLVENT FREE/BORNE EPOXY (S.F.E./S.B.E.)	BLUE/RED/ GREY	COPON HYCOTE 151
CEMENT MORTAR	GREY	EPIDERMK 338
RIL SAN	BLACK	RIL SAN REPAIR KIT

TABLE :2

ITEM No.	DESCRIPTION	QUANTITY
1	EXISTING 200mmØ WATER MAIN	1
2	200mmØ GATE VALVE	1
3	200mmØ STEEL SPOOL PIECE F.B.E 300mm FLANGED DISTANCE	1
4	2 No 200mmØ 90° STEEL SHORT RADIUS BENDS WITH STEEL SPOOL PIECE (SPOOL PIECE LENGTH VARIES-REFER TO NOTE 8) F.B.E	1
5	200mmØ STRAINER 350mm LONG, CONFORM STRAINER TYPE WITH ENGINEER	1
6	200mmØ STEEL SPOOL PIECE 600mm LONG (F.B.E)	1
7	200mmØ BULK METER 350mm LONG (F.B.E)	1
8	200mmØ STEEL SPOOL PIECE (F.B.E) REFER TO TABLE 3 FOR DIMENSIONS.	1
9	200mmØ 90° STEEL SHORT RADIUS BEND WITH 150mm LONG SPOOL PIECE (F.B.E)	1
10	200mmØ BUTTERFLY VALVE WATERED WITH FLANGES (P.N.6)	1
11	200mmØ 90° STEEL SHORT RADIUS BEND WITH SPOOL PIECE (SPOOL PIECE LENGTH VARIES-REFER TO NOTE 8) F.B.E	1

SCALE 1:20

500-800mm REFER TO NOTE 8

CONNECTION TO CONSUMER

NOTES

1. EXACT POSITION OF METER INSTALLATION TO BE INDICATED BY ENGINEER
2. CONTRACTOR TO CONFORM DIMENSIONS OF ALL NEW STEEL PIPE WORK PRIOR TO FABRICATION AND INSTALLATION
3. PRIOR TO INSTALLATION ALL FABRICATED PIPE WORK TO BE EXTERNALLY COATED AND INTERNALLY LINED WITH RIL SAN TO A MINIMUM DRY FILM THICKNESS OF 300 MICRONS, ON SILEX APPROVED (GSA)
4. PRIOR TO INSTALLATION AND ASSEMBLY ANY UNCOATED FLANGE FACES TO BE COATED WITH "COPON KSR88" TO A MINIMUM DRY FILM THICKNESS OF 300 MICRONS (GSA)
5. ONCE THE PIPE WORK HAS BEEN INSTALLED ALL DAMAGED STEEL PIPE WORK IS TO BE REPAIRED USING AN APPROVED PROCEDURE AS PER TABLE "REPAIR OF PIPE COATINGS/LININGS"
6. ALL FLANGE DRILLING TO BE TO SABS 1123 (P.N.6)
7. ALL STEEL PIPE TO BE IN ACCORDANCE WITH SABS 1119 - MEDIUM BLACK- 6mm THICK
8. INDUSTRIAL AREAS - METER INSTALLATIONS TO BE 800mm IND. - (U) AND COMMERCIAL AREAS- METER INSTALLATIONS TO BE 500mm IND.-(U) AT ENGINEER'S DISCRETION
9. CONCRETE BOLLARDS TO BE INSTALLED TO PROTECT INSTALLATION FROM TRAFFIC AS REQUIRED BY ENGINEER
10. CONTRACTOR TO RENOVATE EXCAVATED AREA TO ORIGINAL CONDITION & DISPOSE OF UNSUITABLE SURPLUS MATERIAL OFF SITE

TABLE :3

INSTALLATION REQUIREMENT FOR DIMENSIONS IN TABLE 2		
METER TYPE	ITEM 6	ITEM 8
SENSUS	600mm	—
ELSTER KENT	600mm	300

ETHEKWINI
WATER & SANITATION



WATER DESIGN BRANCH

REDUCED PLAN USE SCALE BELOW



LEGEND
EXISTING UNDERGROUND SERVICES ARE AS SHOWN BELOW

SERVICES AND M.F.S
STORM WATER DRAINS AND M.F.S
WATER MAINS AND VALVES
ELECTRICITY CABLES
TELECOM CABLES
OIL PIPERLINES

CHANGES TO FITTINGS ON 80-200mm METERS ISSUED FOR SIGNATURE

1 FEB2015 80-200mm METERS ISSUED FOR SIGNATURE

UNDERGROUND SERVICES CHECKED DATE

S.W. DRAINS
WATER MAINS
ELECTRIC CABLES
TELECOM CABLES
S.A.B. CABLES
OIL PIPERLINES

DATE OF LINE
DATE OF LINE

WORK ONLY ON UNDERGROUND SERVICES AFFECTED BY NEW CONSTRUCTION ARE ABOVE. CONTRACTOR TO BE RESPONSIBLE FOR ROAD FOUNDATIONS/TRENCHES ETC. TO AVOID DAMAGE TO UNDERGROUND SERVICES SUCH AS CABLES AND PIPES. WHEREVER POSSIBLE THESE MUST BE LOCATED BEFORE WORK BEGINS.

Contract No.

Project No.

Planning Unit

Ward No.

Project Title: NEW STANDARD CONSUMER METER CONNECTION

Drawing Title

Manager: NON RENOVATE WATER

B.SONI DEPUTY HEAD ENGINEERING

E.MSWELL: HEAD WATER & SANITATION

Drawing No: 72056 5/7/1

PART C4: SITE INFORMATION

C4.1 LOCALITY PLAN



C4.2 CONDITIONS ON SITE

Tenderers must satisfy themselves to the nature of materials to be excavated under this contract. No geotechnical survey of this site has been undertaken due to the nature of the contract and the various areas that construction is anticipated. The nature of the project is such that no excavation in rocks is anticipated as excavation will generally take place in existing trenches.

No responsibility is accepted for any conclusions drawn by Tenderers from the information supplied and Tenderers must satisfy themselves as to the nature of materials to be excavated under this Contract. Tenderers are at liberty to excavate any further trial holes or to carry out other investigations to satisfy themselves as to the nature of the ground that will be encountered in the Works, provided that they advise the Engineer of their intention to carry out such further trial hole excavations or other investigations so that the necessary safety requirements can be ensured. Any trial hole excavated in areas close to pedestrian or vehicular traffic shall be barricaded and shall be backfilled immediately after inspection of the soil conditions.

The Tenderer shall be fully liable for any claims for losses, damage or injuries whatsoever arising out of, or as a consequence of, carrying out trial hole excavations for the purpose of his tender. Furthermore, the Engineer's authority for the carrying out of any exploratory excavations is subject to the Tenderer indemnifying the Employer and the Engineer against any such claims.

C4.3 TEST RESULTS

Contractor is required to conduct a water tightness test and flush the line post installation to ensure the flow is uninterrupted adequate pressure, and no leaks, as mandated in C4.3 (Test Results) and ensure the property receiving water at the required pressure and check for any leaks or installation faults before proceeding to the next property on their job cards. Contractor is to develop and implement a Quality Assurance and Control Plan, as per PMS.4 (Quality Assurance), detailing procedures for material tracking, installation checks, and compliance with the municipality's checklist for water meter installations (C3.6, Annexures). The plan shall include regular inspections by a qualified civil engineering technician and related documents for each installation including before and after picture