

CONTRACT NO.: 8/2/2/463(2026-2029)



TENDER DOCUMENT
7CE6CEPE

BID 8/2/2/463 (7CE6CEPE) (2026-2029)

**BID TO APPOINT A SERVICE PROVIDER FOR THE
REPLACEMENT OF AGED WATER RETICULATION
PIPELINES AND ASSOCIATED
INFRASTRUCTURE FOR MIDVAAL LOCAL
MUNICIPALITY ON AN AS AND WHEN REQUIRED
BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029**

NOTE:

- The Quality Scoring Criteria is on page 12 of this document
- The Form of Offer and Acceptance (C.1.1) including construction period, is on page 108 of this document
- The Bill of Quantity is on page 167 of this document

TENDERER
NAME :

CSD SUPPLIER
NUMBER :

ADDRESS :
.....
.....

POSTAL CODE :

TELEPHONE :

CONTACT PERSON :

EMAIL ADDRESS :



REQUEST FOR TENDER

GENERAL INFORMATION

N.B. NO TENDER DOCUMENTS TRANSMITTED PER FAX WILL BE ADMISSIBLE

GENERAL INFORMATION			
N.B. NO TENDER DOCUMENTS TRANSMITTED PER FAX WILL BE ADMISSIBLE			
Tender Advertised	16 April 2026		
Estimated CIDB Grading	Tenderers should have a CIDB Contractor Grading Designation of 7CE6CEPE.or higher Tenderers who satisfy criteria stated in the Tender Data may submit tender offers.		
Clarification Meeting	Tuesday, 5 th May 2026		
Venue for Clarification Meeting	A compulsory clarification meeting with representatives of the Employer will take place at Midvaal Engineering Services, 56 Rooibok Street, Highbury, Randvaal Coordinates: -26.5147°S 28.0441°E (Front opposite Randvaal Clinic) on 05 May 2026 starting at 10h00.		
Closing Date	Monday, 18 th May 2026.		
Closing Time	10H00		
Closing Venue	Ground floor Tender Box at Block A, Midvaal Municipality Offices, No. 25 Mitchell Street, Meyerton, 1960		
Point scoring system	The 90/10-point scoring system will be applicable to this tender, i.e. 90 points for Price and 10 points for Preferential procurement (Specific Goals).		
Late tenders	Tender documents received after the closing time and date will be late and will not be accepted under any circumstances.		
Contract No. 8/2/2/463 (7CE6CEPE) (2026-2029) – BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029			
CLOSING DATE: Monday, 18 th May 2026 at 10:00AM			
Name of tenderer:		CIDB CRS Number	
Contact person:		CIDB Grading	
Telephone no:		Fax no:	
Cellular no:		Email address:	

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO. 8/2/2/463 (2026-2029) PAGE (1)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Tendering Procedures



**CONTRACT NO. 8/2/2/463 (7CE6CEPE)
(2026-2029)**

VOLUME 1

TENDER AND CONTRACT

Employee:		Contractor:		1
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO. 8/2/2/463 (2026-2029) PAGE (2)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Tendering Procedures

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Number	Description	Number	Heading
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		T1.1	Tender Notice and Invitation to Tender
		T1.2	Tender Data
		Part 2: Returnable Documents	
		T2.1	List of Returnable Documents
		T2.2	Returnable Schedules
	Contract	Part 1: Agreement and Contract Data	
		C1.1	Form of Offer and Acceptance
		C1.2	Contract Data
		C1.3	Forms of Securities
		Part 2: Pricing Data	
		C2.1	Pricing Instructions
		C2.2	Bill of Quantities
		C2.3	Calculation Of Tender Sum
		Part 3: Scope of Work	
		C3.1	Scope of Work
		C3.2	Engineering
		C3.3	Procurement
		C3.4	Construction
		Part 4: Site Information	
		C4.1	Site Information
		C4.2	Locality Plan
		Part 5: Environmental Management Plan	
		C5.1	Proforma Documents
		Part 6: Requirements of The Occupational Health and Safety Act and Regulation	
		C6.1	Proforma Documents
Volume 2	Drawings	Volume 2	Drawings
Employee:		Contractor:	
Witness:		Witness:	2

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Tendering Procedures



VOLUME 1

PART 1: TENDERING PROCEDURES

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO. 8/2/2/463 (2026-2029) PAGE (4)
 BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF
 AGED WATER RETICULATION PIPELINES AND ASSOCIATED
 INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS
 AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Tendering Procedures

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Employee:		Contractor:		4
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO. 8/2/2/463 (2026-2029) PAGE (5)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Tendering Procedures

T1.1 TENDER NOTICE AND INVITATION TO TENDER

The Midvaal Local Municipality invites tenders for Contract No.: **BID 8/2/2/463(7CE6CEPE) (2026-2029): BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029**

Employer Tender Number: 8/2/2/463(2026-2029) 7CE6CEPE

CIDB Reference Number: 100116028

MIDVAAL LOCAL MUNICIPALITY INVITES TENDERS FOR BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

It is estimated that tenderers should have a cidb contractor grading of 7CE or higher. 6CE Potentially Emerging Enterprises who satisfy criteria stated in the Tender Data may submit Tender offers.

Preferences are offered to tenderers who suitable experience and suitably qualified employees and resources to render the services.

The council reserves the right to accept any bid of part thereof and does not bind itself to accept the lowest or any bid and not to consider any bid not suitably endorsed or comprehensively competed.

SPECIFIC GOALS & POINTS:

Locality: 5 Points

B-BBEE: 5 Points

Bids will be evaluated and adjudicated

Bids will be evaluated and adjudicated according to the following criteria:

- relevant specifications and technical proposals,
- value for money,
- capability to execute the contract,
- Midvaal SCM policy, PPPFA, PPPFA regulations and any other relevant legislation's,
- As well as any supporting documents where required and local content (if applicable)
- Details of the specific goals' allocation are demonstrated in the bid document

Only tenderers who have read and signed the provisions of the rules and specifications which are included in the bid documents are eligible to submit tenders.

A non-refundable tender deposit of R1,003.50 payable by proof of deposit is required on collection of the Tender documents.

These prices are applicable to formal bids only, and purchases are to be made at the rates and taxes hall during office hours Monday –Friday, 07:30 – 15:00 or alternatively direct deposits (no cheques accepted) to:

Midvaal Local Municipality,

Bank: Nedbank,

Account Number: 1224797469,

Branch: Public Sector -Central Gauteng

NB: Please use the bid/tender number as reference and remember to bring proof of payment for collection of bid documents.

Employee:		Contractor:		5
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO. 8/2/2/463 (2026-2029) PAGE (6)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Tendering Procedures

Alternatively, bidding documents may be requested via tenders@midvaal.gov.za. The bidding document will be sent to the requesting bidder free of charge.

The bid document will also be made available for download on the National Treasury e-Tenders portal (etenders.gov.za). Bidders using this option are hereby advised to monitor the portal regularly for updates and uploaded addendum documents during the time the bid is advertised. It is the responsibility of the bidder to ensure that they are up to date with all issued documents.

Queries relating to the issues of these documents may be addressed to:

SCM

Tel No. 0163607451

E-mail. tenders@midvaal.gov.za

A compulsory clarification meeting with representatives of the Employer will take place at Midvaal Engineering Services, 56 Rooibok Street, Highbury, Randvaal Coordinates: -26.5147°S 28.0441°E (Front opposite Randvaal Clinic) on 05 May 2026 starting at 10h00.

The closing time for receipt of Tenders is 10h00 on Monday, May 18, 2026.

Late Tenders will not be accepted.

Tenders may only be submitted on the tender documentation that is issued.

Requirements for sealing, addressing, delivering, opening and assessment of Tenders are stated in the Tender Data.

Employee:		Contractor:		6
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO. 8/2/2/463 (2026-2029) PAGE (7)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Tendering Procedures

MBD 1

**PART A
INVITATION TO BID**

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF MIDVAAL LOCAL MUNICIPALITY					
BID NUMBER:	8/2/2/463 (7CE6CEPE)	CLOSING DATE:	18 MAY 2026	CLOSING TIME:	10:00AM
DESCRIPTION	BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029				
THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (MBD7).					
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOXSITUATED AT (STREET ADDRESS)					
25 MITCHELL STREET					
MEYERTON					
1961					
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
TAX COMPLIANCE STATUS	TCS PIN:		OR	CSD No:	
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE [TICK APPLICABLE BOX]	☐ YES ☐ NO	B-BBEE STATUS LEVEL SWORN AFFIDAVIT		☐ YES ☐ NO	
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]					
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ YES ☐ NO [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?		☐ YES ☐ NO [IF YES ENCLOSE PROOF B:3]	
TOTAL NUMBER OF ITEMS OFFERED		TOTAL BID PRICE		R	
SIGNATURE OF BIDDER		DATE			
CAPACITY UNDER WHICH THIS BID IS SIGNED					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:			TECHNICAL INFORMATION MAY BE DIRECTED TO:		
DEPARTMENT	SUPPLY CHAIN MANAGEMENT		DEPARTMENT	ENGINEERING SERVICES	
CONTACT PERSON	FINANCE: SCM OFFICE		CONTACT PERSON	TECHNICAL SUPPORT	
TELEPHONE NUMBER	016 360 7609		TELEPHONE NUMBER	016 360 5812	
FACSIMILE NUMBER	N/A		FACSIMILE NUMBER	N/A	
Employee:		Contractor:		7	
Witness:		Witness:			

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO. 8/2/2/463 (2026-2029) PAGE (8)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Tendering Procedures

E-MAIL ADDRESS	tenders@midvaal.gov.za	E-MAIL ADDRESS	tenders@midvaal.gov.za

PART B TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION. 1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL BID DOCUMENT AND NOT TO BE RE-TYPED OR SUBMITTED ONLINE 1.3. BIDDERS MUST REGISTER ON THE CENTRAL SUPPLIER DATABASE (CSD) TO UPLOAD MANDATORY INFORMATION NAMELY: (BUSINESS REGISTRATION/ DIRECTORSHIP/ MEMBERSHIP/IDENTITY NUMBERS; TAX COMPLIANCE STATUS; AND BANKING INFORMATION FOR VERIFICATION PURPOSES). B-BBEE CERTIFICATE OR SWORN AFFIDAVIT FOR B-BBEE MUST BE SUBMITTED TO BIDDING INSTITUTION. 1.4. WHERE A BIDDER IS NOT REGISTERED ON THE CSD, MANDATORY INFORMATION NAMELY: (BUSINESS REGISTRATION/ DIRECTORSHIP/ MEMBERSHIP/IDENTITY NUMBERS; TAX COMPLIANCE STATUS MAY NOT BE SUBMITTED WITH THE BID DOCUMENTATION. B-BBEE CERTIFICATE OR SWORN AFFIDAVIT FOR B-BBEE MUST BE SUBMITTED TO BIDDING INSTITUTION. 1.5. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER LEGISLATION OR SPECIAL CONDITIONS OF CONTRACT.
2. TAX COMPLIANCE REQUIREMENTS
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS. 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VIEW THE TAXPAYER'S PROFILE AND TAX STATUS. 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) OR PIN MAY ALSO BE MADE VIA E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAYERS WILL NEED TO REGISTER WITH SARS AS E-FILERS THROUGH THE WEBSITE WWW.SARS.GOV.ZA. 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS TOGETHER WITH THE BID. 2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE PROOF OF TCS / PIN / CSD NUMBER. 2.6 WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
3. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS
3.1. IS THE BIDDER A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? ☐ YES ☐ NO 3.2. DOES THE BIDDER HAVE A BRANCH IN THE RSA? ☐ YES ☐ NO 3.3. DOES THE BIDDER HAVE A PERMANENT ESTABLISHMENT IN THE RSA? ☐ YES ☐ NO 3.4. DOES THE BIDDER HAVE ANY SOURCE OF INCOME IN THE RSA? ☐ YES ☐ NO IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN, IT IS NOT A REQUIREMENT TO OBTAIN A TAX COMPLIANCE STATUS / TAX COMPLIANCE SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.

NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

Employee:		Contractor:		8
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO. 8/2/2/463 (2026-2029) PAGE (9)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Tendering Procedures

TENDER DATA

T1.1.1 CONDITIONS OF TENDER

The conditions of tender are the Standard Conditions of Tender as contained in Annex F of the CIDB Standard for Uniformity in Construction Procurement (January 2009) as published in Government Gazette No 38960, Board Notice 136 of 2015 of 10 July 2015. (See www.cidb.org.za).

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender.

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

Employee:		Contractor:		9
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

T1.1.2 TENDER DATA

The clause numbers in the Tender Data refer to the corresponding clause numbers in the Conditions of Tender (see Annex).

The additional Conditions of Tender are:

Clause number	Tender Data
F.1.1	The Employer is, Midvaal Local Municipality
F.1.2	The tender documents issued by the Employer comprise: Volume 1: Tendering Procedures T1.1 Tender Notice and Invitation to Tender T1.2 Tender Data Returnable Documents T2.1 List of Returnable Documents Part 1: Agreement and Contract Data C1.1 Form of Offer and Acceptance C1.2 Contract Data C1.3 Forms of Securities. Part 2: Pricing Data C2.1 Pricing Instructions C2.2 Bill of Quantities C2.3 Calculation of Tender Sum Part 3: Scope of Work C3.1 Scope of Work C3.2 Engineering C3.3 Procurement C3.4 Constriction Part 4: Site Information C4.1 Site Information C4.2 Locality Plan Part 5: Environmental Management Plan C5.1 Proforma Documents Part 6: Requirements of the Occupational Health and Safety Act and Regulation C6.1 Proforma Documents Volume 2: Drawings
F.1.4	The Employer's agent is: Details shall be provided in the relevant Works Order.

Employee:		Contractor:		10
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

Clause number	Tender Data
F1.5.2	Replace the existing clause with the following: The Employer may not subsequent to the cancellation or abandonment of a tender process or the rejection of all responsive tender offers, re-issue a tender covering substantially the same scope of work within a period of six months unless only one tender was received and such tender was returned unopened to the tenderer or where in his opinion all received tenders are found to be non-responsive.
F.2.1.1	Eligibility criteria and requirements. TO ADEQUATELY SUBSTANTIATE ANY ELIGIBILITY CLAIM FOR CRITERIA BELOW THE TENDERER SHALL SUBMIT INFORMATION OR COMPLETE RETURNABLE SCHEDULES: CIDB registration and grading: 1) Only tenderers who are registered with the CIDB or have a sub-contractor registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation of 7CE6CEPE and who satisfy criteria stated in the Tender Data may submit Tender offers. <i>Certificate of Registration with CIDB to be submitted</i> 2) Joint ventures are eligible to submit tenders provided that: i) every member of the joint venture is registered with the CIDB; ii) the lead partner has a contractor grading designation in the applicable class of construction work; and iii) the combined contractor grading designation calculated in accordance with the CIDB Regulations is equal to or higher than a contractor grading designation as indicated above. <i>Certificates of Registration with CIDB to be submitted</i>
F.2.7	The arrangements for a compulsory clarification meeting are as stated in the Tender Notice and Invitation to Tender. Tenderers must sign the attendance list in the name of the tendering entity. Addenda will be issued to and tenders will be received only from those tendering entities appearing on the attendance list.
F2.10	Tenderers are required to state the rates and currencies in Rand.
F.2.13.3	a) Submit original tender, no copies of tenders will be accepted b) Tenderers shall not disassemble this Tender Document apart. Additional documentation including certificates shall be submitted in a separate, properly bound, document
F2.13.4	The tenderer is required to submit the following: The tenderer is required to submit the following with his tender (1) an original valid Tax Clearance Certificate issued by the South African Revenue Services; and

Employee:		Contractor:		11
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

Clause number	Tender Data
	(2) Proof of Contractor Registration drawn from the Construction Industry Development Board website should be attached to Returnable Schedule Form A12; (3) evidence of registration and proof of good standing with a compensation insurer who is approved by the Department of Labour in terms of Section 80 of the Compensation for Occupational Injuries and Diseases Act (Act No 130 of 1993)(COIDA). The tenderer is required to disclose all inspections, investigations and their outcomes conducted by the Department of Labour into the conduct of the tenderer at a time during the 36 months preceding the date of this Tender; (4) Proof of Registration in respect of each partner, where a tenderer satisfied the CIDB contractor grading designation requirements through the formation of a joint venture; (5) Submit their Broad-Based Black Economic Empowerment status level certificate or certified copy thereof issued by a registered verification agency in accordance with the Preferential Procurement Policy Framework Act, 2000; Preferential Procurement Regulations, 2022. Joint ventures/consortiums will qualify for preference points, provided that the entity submits the relevant certificate/score card in terms of Preferential Procurement Regulations, 2022. Note that in the case of unincorporated entities, a verified score card must be submitted with the Tender. (6) A tender submitted jointly by two companies shall be accompanied by a copy of the document establishing the joint venture registered, joint venture bank account, and authenticated by an official who is authorized to witness sworn statements. The document shall clearly state the reason for the amalgamation, its period of validity and the persons who will represent it, how their assets will be legally obligated, and any further information that will explain the functions of the joint venture.
F.2.13.5	The Employer's address for delivery of tender offers and identification details to be shown on the Tenderer's offer package are: Location of tender box: Ground Floor Tender Box Physical address: Block A, Midvaal Municipality Offices, No. 25 Mitchell Street, Meyerton, 1960 Identification details: Tender reference number, Title of Tender and the closing date and time of the tender, <i>as well as the Tenderer's name, his Authorised Representative's name, postal address and telephonic contact numbers.</i>
F.2.13.6 & F.3.5	A two-envelope procedure will not be followed.
F.2.15.1	The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.
F.2.16	2. 16.1a) Tenders shall remain valid for a period of ninety (90) days from the time set for the opening of Tenders and no Tender may be withdrawn during this period. 2.16.1b) Should a Tenderer amend (other than according to F 3.9) or withdraw his Tender after the time set for the receipt and opening of Tenders and during the period of its validity, but prior to his being notified of the acceptance of his original Tender, or should a Tenderer, after having been notified that his Tender has been accepted a) give notice of his inability to execute the Consultancy Agreement / Contract in terms of his lender; or

Employee:		Contractor:		12
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

Clause number	Tender Data
	b) fail to sign a Consultancy Agreement / Contract or furnish the security within the period fixed in the conditions reflected in the form of Tender or any extended period fixed by the Employer; or c) fail to execute the Consultancy Agreement / Contract according to the documents; He shall pay either the difference between his Tender and a less favourable Tender accepted in terms of the provisions of Tender sub Condition 3.1(d), or if the Employer decides to invite fresh Tenders, all additional expenses which the Employer has to incur in this regard, as well as any difference between his Tender and the accepted new Tender; provided that the Employer may fully or partly exempt a Tenderer from the provisions of this sub condition if he is of the opinion that the circumstances justify the exemption. 2.16.1c) When, in the circumstances mentioned in Tender sub Condition 3.10(c) it is not deemed desirable to invite fresh Tenders, the Employer may accept another Tender from those already received.
F.2.17	The tendered lump sums and rates shall be final and binding irrespective of the total tender price (See C2.1.11).
F.2.18	Any additional information requested under this clause must be provided within 5 working days of the date of request. The tenderer shall, when requested by the Employer to do so, submit the names of all management and supervisory staff that will be employed to supervise the labour-intensive portion of the Works together with satisfactory evidence that such staff members satisfy the eligibility requirements.
F.2.19	No access for tests and inspections is required during the tendering period.
F.2.20	The tenderer must submit to the Employer the names of all management and supervisory staff that will be employed to supervise the labour-intensive portion of the works together with satisfactory evidence that such staff members satisfy the eligibility requirement
F.2.23	The Tenderer is required to submit with his tender a letter of intent from an approved insurer undertaking to provide the Performance Guarantee. Including insurance of the works and Plant, Third Party Liability Insurance and, Political riot insurance.
F.2.24	The successful service provider will be required to submit proof of Public Liability Insurance to the value of R10 million within 14 days after award of the contract. Failure to do so may result in withdrawal of the award. Including insurance of the works and Plant, Third Party Liability Insurance and, Political riot insurance.'

Employee:		Contractor:		13
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

Clause number	Tender Data
F.2.25	The Tenderer is required to submit with his tender: 1) Valid SARS Compliance status Pin for Tenders issued by the South African Revenue Services. 2) Proof of CSD registration 3) Curriculum Vitae of all key staff. 4) Certificates of Contractor Registration issued by the CIDB 5) where the tendered amount inclusive of VAT exceeds R 10 million: i) audited annual financial statement for 3 years, or for the period since establishment if established during the last 3 years, if required by law to prepare annual financial statements for auditing; ii) a certificate certifying that the tenderer has no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days; iii) particulars of any contracts awarded to the tenderer 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; iv) a statement indicating whether any portion of the goods or services are expected to be sourced from outside the Republic, and, if so, what portion and whether any portion of payment is expected to be transferred out of the Republic. Where a tenderer satisfies CIDB contractor grading designation requirements through joint venture formation, such tenderers must submit the Certificates of Contractor Registration in respect of each partner.
F.2.27	Add the following new clause: Tax Compliance In the case of a Joint Venture/Consortium the tax Compliance Status Pin must be submitted for each member of the Joint Venture/Consortium.”
F.3.1.1	Replace the contents of the clause with the following: “Respond to a request for clarification received up to seven calendar days before the tender closing time stated in the tender data and notify all Tenderers who drew procurement documents”
F.3.4.2	Tenders will be opened in public soon after closing time and recording of received documents at Midvaal Local Municipality Civic Centre, No. 25 Mitchell Street, Meyerton.

Employee:		Contractor:		14
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

F.3.11.1

The procedure for the evaluation of responsive tenders is:

POTENTIAL SERVICE PROVIDERS WILL HAVE TO ACHIEVE ALL THE MINIMUM REQUIREMENTS.

IT SHOULD BE NOTED THAT THE PREFERENCE PROCUREMENT WILL BE IN LINE WITH THE PREFERENTIAL PROCUREMENT REGULATIONS

EVALUATION OF TENDER OFFERS

This tender will be evaluated for functionality in line with the minimum requirements outlined below:

Criteria	Minimum Requirements / Evidence to be Submitted
Company Experience	Bidders must have successfully completed a minimum of three (3) projects in the construction of bulk water supply infrastructure or municipal water reticulation pipelines or water board bulk pipelines within the last 10 years, from 2016 to date. Evidence to be submitted: Bidders must submit a minimum of three (3) reference letters demonstrating satisfactory experience in the completion of projects involving the construction of bulk water supply infrastructure or municipal water reticulation pipelines or water board bulk pipelines, completed within the past ten (10) years (2016 to date). Each reference letter must be issued by a different referee (client/employer). Reference letters must be either completed as per Annexures A, B, and C, and must be fully completed, signed, and stamped with the official stamp of the referee issuing the reference. Reference letters demonstrate satisfactory experience in the successful completion of projects for the construction of bulk water supply infrastructure or municipal water reticulation or waterboard bulk pipelines, undertaken for a municipality or a waterboard. Reference letters must be issued by different referees and must be completed as per Annexures A, B, and C where the combined value of the projects is R20 000 000.00 or above. The reference letters must be fully completed, signed, and stamped with the official stamp of the referee issuing the reference. Or A minimum of three (3) signed and dated appointment letters, together with the corresponding completion certificates, issued on the official letterhead of the referee, must be submitted for projects completed within the past ten (10) years (2016 to date). The combined construction value of the projects completed must be R20 000 000.00 or above and the completion certificates must clearly indicate the project value, date of completion, and scope of work. The projects must have been undertaken for a municipality or a waterboard. Failure to comply will result in the bid not being evaluated further.

Employee:		Contractor:		15
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

		It is the onus of bidders to make sure that they provide contactable satisfactory letters/appointment letters/completion certificates. The municipality will verify the veracity of the provided contents at any given time. Should the content of the contactable satisfactory letters/appointment letters/completion certificates not be verifiable, the information will be disregarded, and the bidder will have no claim against the municipality.
	Key Personnel	Bidders must provide CVs and proof of qualifications for each key personnel involved in installation of municipal water reticulation networks projects or water board reticulation networks projects within the last 10 years, from 2015 to date. • Contract Manager –A minimum of ten (10) years post-qualification experience in Civil Engineering, hold a minimum qualification of NQF Level 7 in Civil Engineering/BSc Eng or BEng, and be registered with ECSA and SACPCMP as a Professional Engineering Technologist and Pr. CPM/CM with at least five (5) years' post-registration experience. Tenderers must attach a valid ECSA Registration Certificate powered by PrivySeal as proof of registration. As per ECSA requirements effective 01 January 2026, only the certificate powered by PrivySeal will be recognised as valid proof of registration. • Foreman – A minimum of five (5) years' post-qualification experience in the civil engineering field is required. The candidate must hold a minimum of NQF Level 4 qualification in Civil Engineering Construction. • Plumber – Minimum 3 years post-qualification experience in the construction of water reticulation pipelines. Trade Test / Red Seal in plumbing. • Occupational Health and Safety Officer (OHS)– Minimum have three (3) years or more experience in Safety within construction projects. This to be clearly outlined in the CV and linked into related experience in construction projects. Furthermore, the OHS is to be registered with SACPCMP (either as a PrCHSO or PrCHSA) and an NQF 5 in Occupational Health and Safety Management. Failure to comply will result in the bid not being evaluated further.
	Public Liability Insurance	The Contractor shall hold valid Public Liability Insurance that provides indemnity against legal liability for accidental death of or injury to third-party persons and/or loss or damage to third-party property arising directly from the execution of the Contract and occurring during the period of insurance. The insurance must provide coverage for all claims arising from any one occurrence or a series of occurrences attributable to a single source or original cause. A valid certificate of Public Liability Insurance must be submitted with the tender. Failure to submit this certificate will result in the tender being deemed non-responsive.

Employee:		Contractor:		16
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

Clause number	Tender Data
F.3.13	Tender offers will only be accepted if: - the tenderer has in his or her possession an original valid Tax Clearance Certificate or has provided a valid Tax Pin Code issued by the South African Revenue Services or has made arrangements to meet outstanding tax obligations or is Complaint to the Central Database of National Treasury; - the tenderer is registered with the CIDB with an appropriate category of registration; - the tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector; - the tenderer has not: - abused the Employer's Supply Chain Management System; or - failed to pay municipal rates and taxes or service charges and such rates, taxes and charges are in arrears for more than three months; - failed to perform on any previous contract and has been given a written notice to this effect; - the tenderer has completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process.
F.3.18	The number of paper copies of the signed contract to be provided by the Employer is one.
	Remove (The following clauses are not applicable)
F3.19.3	The transparency model must identify the criteria for selection of projects, project information template and the threshold value of the projects to be disclosed in the public domain at various intervals of delivery of infrastructure projects.
F3.19.4	The client must publish the information on a quarterly basis which contains the following information: - Procurement planning process - Procurement method and evaluation process - Contract type - Contract status - Number of firms tendering - Cost estimate - Contract title - Contract firm(s) - Contract price - Contract scope of work - Contract start date and duration - Contract evaluation reports
F3.19.5	The employer must establish a Consultative Forum which will conduct a random audit in the implementation of the transparency requirements in the procurement process.
F3.19.6	Consultative Forum must be an independent structure from the bid committees.
	Additions

Employee:		Contractor:		17
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

Clause number	Tender Data
F.3.20.1	Imbalance in Tendered Rates In the event the lump sums being declared by the Employer to be imbalanced, the rates shall be used to balance the lump sums. unacceptable because they are either excessively low or high or not in proper balance with other rates or lump sums, the Tenderer may be required to produce evidence and advance arguments in support of the tendered rates or lump sums objected to. If, after submission of such evidence and any further evidence requested, the Employer is still not satisfied with the tendered rates or lump sums objected to, it may request the tenderer to amend these rates and lump sums along the lines indicated by it. The Tenderer will then have the option to alter and/or amend the rates and lump sums objected to and such other related amounts as are agreed on by the Employer. Should the Tenderer fail to amend the Tender in a manner acceptable to the Employer, the Employer may reject the Tender.
F3.20.2	Invalid Tenders Tenders shall be considered invalid and shall be endorsed and recorded as such in the tender opening record, by the responsible official who opened the tender, in the following circumstances: - if the tender offer is not submitted on the Form of Offer and Acceptance bound into this tender document (form C1.1 Form of Offer and Acceptance); - if the tender is not completed in non-erasable ink; - if the tender has retyped the contract in any form or part thereof; - if the offer has not been signed; - if the offer is signed, but the name of the tenderer is not stated or is indecipherable. - if the tenderer has failed to submit supporting documentation for the evaluation of quality.
F3.20.3	Negotiations with Preferred Tenderers The Employer may negotiate the final terms of a contract with tenderers identified through a competitive tendering process as preferred tenderer provided that such negotiation: - does not allow any preferred tenderer a second or unfair opportunity; - is not to the detriment of any other tenderer; and - does not lead to a higher price than the tender as submitted. Minutes of any such negotiations shall be kept for record purposes.
F3.20.4	General Supply Chain Management Conditions Applicable to Tenders The Supply Chain Management Policy is available from Midvaal Local Municipality's website.
F3.20.5	UIF The Tenderer shall submit to the Employer a letter from the Department of Labour indicating his/her good standing with regard to UIF payments upon being requested to do so.

Employee:		Contractor:		18
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

ANNEXURE: STANDARD CONDITIONS OF TENDER

As published in Annexure F of the CIDB Standard for Uniformity for construction Procurement, Board Notice 136 Government Gazette No 38960 of 10 July 2015

F.1 General

F.1.1 Actions

F.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 F.2 and F.3, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations and not engage in anticompetitive practices.

F.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.

Note: 1) 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.

2) 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.

F.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.

F.1.2 Tender Documents

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

F.1.3 Interpretation

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

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

F.1.3.3 For the purposes of these conditions 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 fulfill his or her duties impartially;
 - ii) an individual or organisation 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 organisation which employs that employee.

Employee:		Contractor:		19
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

- 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;
- e) **organization** means a company, firm, enterprise, association or other legal entity, whether incorporated or not, or a public body;
- f) **functionality** means the measurement according to the predetermined norms of a service or commodity designed to be practical and useful, working or operating, taking into account quality, reliability, viability and durability of a service and technical capacity and ability of a tenderer.

F.1.4 Communication and employer's agent

Each communication between the employer and a tenderer shall be to or from the employer's agent or the Client representative, 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.

F.1.5 Cancellation and Re-Invitation of Tenders

F1.5.1 An organ of state 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 services, works or goods requested; or
- (b) funds are no longer available to cover the total envisaged expenditure; or
- (c) no acceptable tenders are received.

F1.5.2 The decision to cancel a tender must be published on the cidb as well as on the etender Portal in which the original tender invitation was advertised.

F.1.6 Procurement procedures

F.1.6.1 General

Unless otherwise stated in the tender data, a contract will, subject to F.3.13, be concluded with the tenderer who in terms of F.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.

F.1.6.2 Competitive negotiation procedure

F.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 F.3.4, the employer shall announce only the names of the tenderers who make a submission. The requirements of F.3.8 relating to the material deviations or qualifications which affect the competitive position of tenderers shall not apply.

F.1.6.2.2 All responsive tenderers, or not less than three responsive tenderers that are highest ranked in terms of the evaluation method and evaluation criteria stated in the tender data, shall be invited in each round to enter into competitive negotiations, based on the principle of equal treatment and keeping confidential the proposed solutions and associated information. Notwithstanding the provisions of F.2.17, the employer may request that tenders be clarified, specified and fine-tuned in order to improve

Employee:		Contractor:		20
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

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.

F.1.6.2.3 At the conclusion of each round of negotiations, tenderers shall be invited by the employer to make a fresh 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.

F.1.6.2.4 The contract shall be awarded in accordance with the provisions of F.3.11 and F.3.13 after tenderers have been requested to submit their best and final offer.

F.1.6.3 Proposal procedure using the two stage-system

F.1.6.3.1 Option 1

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.

F.1.6.3.2 Option 2

F.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.

F.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.

F.2 Tenderer's obligations

F.2.1 Eligibility

F.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.

F.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 submit a tender offer and obtain the employer's written approval to do so prior to the closing time for tenders.

F.2.2 Cost of tendering

F.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.

F.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.

F.2.3 Check documents

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

Employee:		Contractor:		21
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

F.2.4 Confidentiality and copyright of documents

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

F.2.5 Reference documents

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

F.2.6 Acknowledge addenda

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

F.2.7 Clarification meeting

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

F.2.8 Seek clarification

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

F.2.9 Insurance

Be aware that the extent of insurance to be provided by the employer (if any) 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.

F.2.10 Pricing the tender offer

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

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

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

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

F.2.11 Alterations to documents

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.

Employee:		Contractor:		22
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

F.2.12 Alternative tender offers

F.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.

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

F.2.12.3 An alternative tender offer may only be considered in the event that the main tender offer is the winning tender.

F.2.13 Submitting a tender offer

F.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, services or supply identified in the contract data and described in the scope of works, unless stated otherwise in the tender data.

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

F.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.

F.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.

F.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 tender data, as well as the tenderer's name and contact address.

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

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

F.2.13.8 Accept that the employer 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.

F.2.13.9 Accept that tender offers submitted by facsimile or e-mail will be rejected by the employer, unless stated otherwise in the tender data.

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

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

F.2.15 Closing time

Employee:		Contractor:		23
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

F.2.15.1 Ensure that the employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Accept that proof of posting shall not be accepted as proof of delivery.

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

F.2.16 Tender offer validity

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

F.2.16.2 If requested by the employer, consider extending the validity period stated in the tender data for an agreed additional period with or without any conditions attached to such extension.

F.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.

F.2.16.4 Where a tender submission is to be substituted, submit a substitute tender in accordance with the requirements of F.2.13 with the packages clearly marked as "SUBSTITUTE".

F.2.17 Clarification of tender offer after submission

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

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

F.2.18 Provide other material

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

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

F.2.19 Inspections, tests and analysis

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

F.2.20 Submit securities, bonds 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.

F.2.21 Check final draft

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

F.2.22 Return of other tender documents

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

Employee:		Contractor:		24
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

F.2.23 Certificates

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

F.3 The employer's undertakings

F.3.1 Respond to requests from the tenderer

F.3.1.1 Unless otherwise stated in the tender Data, respond to a request for clarification received up to five working days before the tender closing time stated in the Tender Data and notify all tenderers who drew procurement documents.

F.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:

- 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;
- 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) in the opinion of the Employer, acceptance of the material change would compromise the outcome of the prequalification process.

F.3.2 Issue Addenda

If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until three 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 drew documents.

F.3.3 Return late tender offers

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

F.3.4 Opening of tender submissions

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

F.3.4.2 Announce at the 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.

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

F.3.5 Two-envelope system

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

Employee:		Contractor:		25
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

F.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 BBBEE status level. Return unopened financial proposals to tenderers whose technical proposals failed to achieve the minimum number of points for functionality.

F.3.6 Non-disclosure

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

F.3.7 Grounds for rejection and disqualification

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

F.3.8 Test for responsiveness

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

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

F.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:

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

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

F.3.9 Arithmetical errors, omissions and discrepancies

F.3.9.1 Check the highest ranked tender or tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with F.3.11 for:

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

Employee:		Contractor:		26
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

F3.9.2 The employer must correct the arithmetical errors in the following manner:

- Where there is a discrepancy between the amounts in words and amounts in figures, the amount in words shall govern.
- 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.
- 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.

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

F.3.10 Clarification of a tender offer

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

F.3.11 Evaluation of tender offers

F.3.11.1 General

Appoint an evaluation panel of not less than three persons. Reduce each responsive tender offer to a comparative offer and evaluate them using the tender evaluation methods and associated evaluation criteria and weightings that are specified in the tender data.

F.3.11.2 Method 1: Price and Preference

In the case of a price and preference:

- Score tender evaluation points for price
- Score points for Specific goals contribution
- Add the points scored for price and Specific goals

F.3.11.3 Method 2: Functionality, Price and Preference

In the case of a functionality, price and preference:

- Score functionality, rejecting all tender offers that fail to achieve the minimum number of points for functionality as stated in the Tender Data.
- No tender must be regarded as an acceptable tender if it fails to achieve the minimum qualifying score for functionality as indicated in the tender invitation.
- Tenders that have achieved the minimum qualification score for functionality must be evaluated further in terms of the preference points system as described the preferential procurement regulations 2022

G.3.11.4 Scoring points functionality

Score each of the criteria and sub-criteria for quality in accordance with the provisions of the Tender Data. Only tenderers achieving the minimum score as described will proceed to further evaluation, ie Price and Preference

F3.11.5 Scoring points for Price

All eligible tenders will be allocated points for price as per the point scoring system described in the preferential procurement regulations, 2022 with the lowest priced tender scoring the highest and the remaining tenders scoring lower as determined through the calculation based on the formula provided.

Employee:		Contractor:		27
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

F3.11.6 Scoring points preferences

Confirm that tenderers are eligible for the preferences claimed in accordance with the provisions of the tender data and reject all claims for preferences where tenderers are not eligible for such preferences. Points for Preference points will only be allocated upon submission of a valid and certified BBBEE Scorecard

Calculate the total number of tender evaluation points for preferences claimed in accordance with the provisions of the tender data.

F.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:

- is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement,
- 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,
- has the legal capacity to enter into the contract,
- is not insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act, 2008, bankrupt or being wound up, has his affairs administered by a court or a judicial officer, has suspended his business activities, or is subject to legal proceedings in respect of any of the foregoing,
- complies with the legal requirements, if any, stated in the tender data, and
- is able, in the opinion of the employer, to perform the contract free of conflicts of interest.

F.3.14 Prepare contract documents

F.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:

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

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

F.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.

F.3.16 Notice to unsuccessful tenderers

F.3.16.1 Notify the successful tenderer of the employer's acceptance of his tender offer by completing and returning one copy of the form of offer and acceptance before the expiry of the validity period stated in the tender data, or agreed additional period.

F.3.16.2 After the successful tenderer has been notified of the employer's acceptance of the tender, notify other tenderers that their tender offers have not been accepted.

Employee:		Contractor:		28
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Tendering Procedures

F.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.

F.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.

F.3.19 Additional Conditions of Tender

F.3.19.1 Community Liaison Officer

The function of the CLO shall be to represent the local community in matters concerning the use of local labour on the works and to assist with and facilitate communication between the Contractor, the Engineer and the local communities.

The period of appointment of the CLO shall be as stated in the Contract for Temporary Employment as a Community Liaison officer referred to below. The date of commencement of temporary employment of the CLO shall be as agreed with the Engineer.

The identification of the approved CLO to be appointed by the Contractor under the Contract shall be resolved by the Contractor, the Ward Councillors in collaboration with the Local Community in the form of a Project Steering Committee. It will be required, therefore, that the successful Tenderer (i.e. the Contractor) enter a contract for the employment of the above-mentioned CLO, the parties to which will be the Contractor, the Local Authority and the CLO.

To this end a specimen Form of Contract for the Temporary Employment as a Community Liaison Officer is included in this document; this Form of Contract sets out, inter alia, the agreement between the parties, the duties and conditions of employment of the CLO (including the rate of remuneration to be paid).

As said contract will be between the Contractor and the CLO, all costs involved shall be borne by the Contractor and the tender shall be deemed to include for this.

Further to all of the above, the Tenderer/Contractor is referred to the relevant items contained in the Special Conditions of Contract and the relevant Annexure included in the Contract Document.

Employee:		Contractor:		29
Witness:		Witness:		

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO.8/2/2/463(2026-2029) PAGE (xxx)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Returnable Documents



VOLUME 1

PART 2: RETURNABLE DOCUMENTS

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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T2.2.30	Occupational Health and Safety Plan	67

Employee:		Contractor:		xxxi
Witness:		Witness:		

LIST OF RETURNABLE DOCUMENTS

The tenderer must complete the following returnable documents:

Documents incorporated in this tender document that must be completed and signed by all tenders

T2.2.1	Authority to Sign Documents
T2.2.2	Clarification Meeting Certificate
T2.2.3	Certificate of Authority for Joint Ventures (only if Tenderer is a JV)
T2.2.4	Schedule of Work Experience of Tenderer
T2.2.5	Schedule of Construction Plant
T2.2.6	Schedule of Subcontractors
T2.2.7	Details of Experience and CV's Of Key Personal
T2.2.8	Alterations / Amendments / Qualifications by Tenderer
T2.2.9	Compulsory Enterprise Questionnaire
T2.2.10	General Information (Procurement)
T2.2.11	Equity Of Ownership
T2.2.12	Bidder's Attachments Checklist
T2.2.13	Record of Addenda to Tender Documents
T2.2.14	Performance Management System
T2.2.15	Joint Venture Disclosure Form
T2.2.16	Midvaal Local Municipality Indemnity
T2.2.17	Municipal Services, Rates and Taxes Clearance Certificate for Supply Chain Purpose
T2.2.18	Declaration of Interest (MBD 4)
T2.2.19	Declaration For Procurement Above R10 Million (Vat Included) (MBD 5)
T2.2.20	Points Claim Form in Terms of The Preferential Procurement Regulations 2022 (MBD 6.1)
T2.2.21	Declaration of Tenderer's Past Supply Chain Management Practices (MBD 8)
T2.2.22	Certificate of Independent Tender Determination (MBD 9)
T2.2.23	Specific Details of Tenderer
T2.2.24	Form Concerning Fulfilment of The Construction Regulations 2003
T2.2.25	Schedule Of Local Labour Content
T2.2.26	Consent And Acknowledgments: Protection Of Personal Information Act 2013 (POPI)

Additional Documents to be provided by the Tenderer and attached to the tender

T2.2.27	CIDB Contractor Registration Certificate
T2.2.28	Financial Details, Statements and Bank References
T2.2.29	Tax Clearance Certificate
T2.2.30	Occupational Health and Safety Plan

Other documents that will be incorporated into the contract

C1.1	Form of Offer and Acceptance
C1.2	Contract Data
C1.3	Performance Guarantee
C1.3	Occupational Health and Safety Agreement
C2.1	Pricing Data and Bill of Quantities
C3	Scope of Work
C4	Site Information

NB: TENDERERS MUST COMPLETE THESE DOCUMENTS / DATA SHEETS / FORMS IN BLACK NON-ERASABLE INK

T2.2.1 Authority to Sign Document

I/We*, the undersigned, am/are* duly authorised to sign the form of tender on behalf of

.....

by virtue of the Articles of Association/Resolution of the Board of Directors*, of which a certified copy is attached,
or

.....

.....

*Delete whichever is inapplicable

1.

NAME

SIGNATURE

DATE

2.

NAME

SIGNATURE

DATE

WITNESSES:

1.

NAME

SIGNATURE

DATE

2.

NAME

SIGNATURE

DATE

T2.2.2 Clarification Meeting Certificate

This is to certify that I/We*

of (tenderer)
.....

of (address)
.....
.....

Telephone number

Fax number

Email

on (date)

have examined the Site of the Works and its surroundings for which I/we* am/are* submitting this Tender and have, so far as is practicable, familiarised myself/ourselves* with all information, risks, contingencies and other circumstances which may influence or affect my/our* tender.

*Delete whichever is inapplicable

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

T2.2.3 Certificate of Authority for Joint Ventures

This Returnable Schedule is to be completed only if Tenderer is a joint venture.

We, the undersigned, are submitting this tender offer in joint venture and hereby authorise

Mr/Ms, authorised signatory of the company, close corporation or partnership..... acting in the capacity of lead partner, to sign all documents in connection with the tender offer and any contract resulting from it on our behalf.

NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY
Lead partner		Signature : Name : Designation :
		Signature : Name : Designation :
		Signature : Name : Designation :
		Signature : Name : Designation :

Note:

A copy of the Joint Venture Agreement showing clearly the percentage contribution of each partner to the Joint Venture shall be appended to this Schedule.

T2.2.4 Schedule of Work Experience of Tenderer

Tenderers shall insert in the Schedule hereunder details of work successfully carried out by them of a similar nature to that for which their tender is submitted.

Experience				
Employer (Name, Tel, Fax, Email)	Consulting Engineer (Name, Tel, Fax, Email)	Nature of Work	Value of Work R(M)	Date Completed
Name:				
Tel:				
Fax:				
Email:				
Name:				
Tel:				
Fax:				
Email:				
Name:				
Tel:				
Fax:				
Email:				
Name:				
Tel:				
Fax:				
Email:				
Name:				
Tel:				
Fax:				
Email:				

If there is insufficient space above, the tenderer may append additional sheets.

Number of additional sheets appended by the tenderer to this Schedule (If nil, enter NIL)

SIGNED BY/ON BEHALF OF TENDERER:

Name

Signature

Date

T2.2.5 Schedule of Construction Plant

The bidder must sign a certificate of undertaking to guarantee the availability of the plant and equipment as per Annexure A

CONSTRUCTION PLANT AVAILABLE					
Description	Arrangements Made	Delivery Date	Size	Capacity	Number

CONSTRUCTION PLANT THAT WILL BE ACQUIRED / HIRED					
Description	Arrangements Made	Delivery Date	Size	Capacity	Number

If there is insufficient space above, the tenderer may append additional sheets.

Number of additional sheets appended by the tenderer to this Schedule (If nil, enter NIL)

SIGNED BY/ON BEHALF OF TENDERER:

NAME		SIGNATURE		DATE

T2.2.6 Schedule Of Local Subcontractors

We notify you that it is our intention to employ the following Subcontractors for work in this contract.

LOCAL SUBCONTRACTORS						
Category/type	Subcontractor Name/Address/Contact Person/Phone/Fax/Details of Organisation/Firm/Experience	(a) B-BBEE Ownership (%)	CIDB Contractor Grading	Items of work (pay items) to be undertaken by the Subcontractor	(b) Estimated Cost of work	(c) = (a) x (b) Contribution to BB-BBB Ownership (Rand)
A) SUBTOTAL FOR LOCAL SUBCONTRACTORS (Excluding VAT)						
B) TOTAL CONTRIBUTION TO BB-BBB OWNERSHIP (Excluding VAT)					R	
PERCENTAGE OF CONTRACT VALUE FOR LOCAL SUB-CONTRACTORS (A x B / 100)						
C) SUBTOTAL CONTRIBUTION TO HDI OWNERSHIP (Excluding VAT)					R	
D) TOTAL CONTRACT VALUE (Excluding VAT)					R	
PERCENTAGE OF CONTRACT VALUE FOR HDI CONTRIBUTION (C x D / 100)					%	

If there is insufficient space above, the tenderer may append additional sheets.

Number of additional sheets appended by the tenderer to this Schedule (If nil, enter NIL)

Acceptance of this tender shall not be construed as approval of all or any of the listed subcontractors. Should any of the subcontractors not be approved subsequent to acceptance of the tender, this shall in no way invalidate this tender, and the tendered unit rates for the various items of work shall remain final and binding, even in the event of a subcontractor not listed above being approved by the Engineer.

SIGNED BY/ON BEHALF OF TENDERER:

NAME		SIGNATURE		DATE

T2.2.7 Details of Experience and CV's of Key Personnel

Tenderers shall set out in the Schedule hereunder details of the experience of the relevant personnel in work of a similar nature to that for which this Tender is submitted as per Evaluation Criteria. Tender to provide copies of relevant qualifications.

Bidders must provide CVs and proof of qualifications for each key personnel involved in installation of municipal water reticulation networks projects or water board reticulation networks projects within the last 10 years, from 2015 to date.

CONTRACTS MANAGER				
Name & Surname:		Qualification:		
Contract and Client	Nature of Work	Position Held	Value of Work	Year Completed

Minimum requirements:

- A minimum of ten (10) years post-qualification experience in Civil Engineering.
- A minimum qualification of NQF Level 7 in Civil Engineering.
- Must be registered with ECSA as a Professional Engineering Technologist and SACPCMP as PR.CPM/CM, with at least five (5) years' registration.
- Attach a valid ECSA Registration Certificate powered by PrivySeal as proof of registration.

FOREMAN				
Name & Surname:		Qualification:		
Contract and Client	Nature of Work	Position Held	Value of Work	Year Completed

Minimum requirements:

- A minimum of five (5) years' relevant post-qualification experience in the civil engineering field is required.
- The candidate must hold a minimum qualification of NQF Level 4 in Civil Engineering or an equivalent recognised technical qualification

PLUMBER				
Name & Surname:		Qualification:		
Contract and Client	Nature of Work	Position Held	Value of Work	Year Completed

Minimum requirements:

- 4 Years construction experience in the installation of municipal reticulation networks projects or water board water reticulation networks within the last 10 years, from 2015 to date.
- Trade Test in plumbing (Red Seal)

SAFETY OFFICER				
Name & Surname:		Qualification:		
Contract and Client	Nature of Work	Position Held	Value of Work	Year Completed

- Minimum have three (3) years or more experience in Safety within construction projects.
- NQF 5 in Occupational Health and Safety Management.
- OHS is to be registered with SACPCMP (either as a PrCHSO or PrCHSA)

T2.2.8 Alterations / Amendments / Qualifications by Tenderer

The Tenderer should record any deviations or qualifications he may wish to make to the tender documents in this Schedule. Alternatively, a tenderer may state such deviations and qualifications in a covering letter attached to his/her tender and reference such letter in this schedule.

If no deviations or modifications are desired, the Schedule hereunder is to be marked NIL and signed by the Tenderer.

No alternative Tender will be considered unless a Tender free of qualifications and strictly on the basis of the Tender Documents is also submitted.

PAGE/ITEM	CLAUSE/DESCRIPTION

If there is insufficient space above, the tenderer may append additional sheets.

Number of additional sheets appended by the tenderer to this Schedule (If nil, enter NIL)

SIGNED BY/ON BEHALF OF TENDERER:

Name

Signature

Date

T2.2.9 Compulsory Enterprise Questionnaire

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

Section 1: Name of enterprise

Address of enterprise

Section 2: VAT registration number, if any

Section 3: CIDB registration number, if any

Section 4: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

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

Section 5: Particulars of companies and close corporations

Company registration number

Close corporation number

Tax reference number

Section 6: Record of service of the state

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

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

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

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

*insert separate page if necessary

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

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

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

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

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

*insert separate page if necessary

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

- i) authorises the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- ii) confirms that neither the name of the enterprise nor 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, 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

SIGNED:**Enterprise Name****Date****Name****Position****Signature**

T2.2.10 General Information (Procurement)

1. Name of tendering entity:

2. Contact details: Contact name and number:

Address of tendering entity:

Postal code:

Tel no: () Fax no: ()

E-mail address:

3. Legal entity: Mark with an X.

In the case of a Joint venture, provide details on joint venture members: Joint venture member Type of entity (as defined above)

Sole proprietor	
Partnership	
Close corporation	
Company (Pty) Ltd	
Joint venture	

In the case of a Joint venture, provide details on joint venture members:

Join Venture Member	Type if entity (as defined above)

4. Income tax reference number: (COMPULSORY)
(In the case of a joint venture, provide for all joint venture members)
.....
.....

5. VAT registration number (COMPULSORY): (In the case of a joint venture, provide for all joint venture members)
.....
.....

6. Company or closed corporation registration number (COMPULSORY):
(In the case of a joint venture, provide for all joint venture members)

7. Construction Industry Development Board (CIDB) registration number
 (COMPULSORY) (In the case of a joint venture, provide for all joint venture members)

8. Municipal rates and taxes or service charges accounts of tendering entities and its directors / members
(COMPULSORY)

(In the case of a joint venture, provide for all joint venture members)

ATTACH COPIES OF ALL LATEST MUNICIPAL ACCOUNTS (SEE “NOTICE TO TENDERERS: VERY IMPORTANT NOTICE ON DISQUALIFICATIONS” PARAGRAPH No. 13)

9. Details of proprietor, partners, closed corporation members, or company directors, indicating technical qualifications where applicable (Form on the next page).

10. For joint ventures the following must be attached:

- Written authority of each JV partner, for authorized signatory.
- The joint venture agreement.

SIGNED BY/ON BEHALF OF TENDERER:

NAME		SIGNATURE		DATE

Details Of Proprietor, Partners, Closed Corporation Members Or Company Directors

(In the event of a joint venture, to be completed by all joint venture partners)

Name and Surname	Identity Number	Relevant qualifications and experience	Years of relevant experience

SIGNED BY/ON BEHALF OF TENDERER:

NAME		SIGNATURE		DATE

T2.2.11 Equity Of Ownership

List all partners, shareholders or members of tendering entity by name, identity number, citizenship, gender, race, B-BBEE status and ownership. In the case of a JV, complete an Equity ownership for each JV member.

Name and Surname	Position Occupied in Enterprise	Identity Number	Date RSA Citizen- ship obtained	Gender Male / Female	Race	B-BBEE Status (Yes/No)	Date of Ownership	% B-BBEE Owned	% Owned by Women	% Owned by Disabled
TOTAL								A	B	C

Note: Where owners are themselves a company or partnership, identify the ownership of the holding firm.

In the case of joint ventures equity ownership for each of the JV members are determined as above, and the combined B-BBEE ownership is then calculated as follows

Joint venture members	a % Contribution to the JV	b %BBBEE	c = a * b ÷ 100 % BBBEE contribution
Total BBBEE contribution			

A COPY OF A VALID SIGNED JOINT VENTURE AGREEMENT MUST BE ATTACHED TO THE TENDER DOCUMENT. FAILURE TO COMPLY WITH ABOVE-MENTIONED WILL RESULT IN REJECTION OF THIS TENDER

1. SMME Status

Provide details on the following

Sector/Sub-Sector in accordance with the Standard Industrial Classification	
Total Full-time Equivalent of paid Employees	
Total Annual Turnover	
Total Gross Asset Value	
Size or Class (Medium, Small, Very Small, Micro)	

NOTE: If all of the above does not adhere to the definition of a single class, use the total Annual Turnover only to decide on the class.

SIGNED BY/ON BEHALF OF TENDERER:

NAME		SIGNATURE		DATE

T2.2.12 Bidder's Attachments Checklist

Administrative Compliance:

DESCRIPTION			BIDDER'S CHECKLIST	
1	Certified copy of the signed resolution by all directors authorising a director/ other official of the company to sign the documents on behalf of the company.		YES NO	
2	Current Water and Lights / Rates and Taxes obtainable from the local or metropolitan municipality.		YES NO	
3	In a case of a Joint Venture (JV)/ Consortium, the JV agreement.		YES NO	
4	Valid B-BBEE certificate or Completed or signed Sworn Affidavit The municipality only considers B-BBEE certificates from SANAS accredited agencies as well as certificates and sworn affidavits from the DTI.		YES NO	
SPECIFIC GOALS – POINTS CLAIM				
Goal	Weight		Required Proof	Bidder's Checklist
Local Enterprise (5 Points)	5 Points, if the business operates within the jurisdiction of Midvaal Local Municipality		- Rates and Taxes statement in the name of the business, or that of its director(s); OR	YES NO
	3 Points, if the business operates outside Midvaal but within the Sedibeng District			
	1 Points, if the business operates outside the Sedibeng jurisdiction		- Confirmation of the company's director(s) ward and voting district as per the IEC (Independent Electoral Commission of South Africa)	
	0 points for non-submission			
B-BBEE Status (5 Points)	Status Contributor	Points	B-BBEE certificate: - issued by the DTIC (The Department of Trade and Industry and Competition) through CIPC; OR - from an accredited institution registered with SANAS; OR - a valid sworn affidavit, as issued by the DTIC	YES NO
	1	5		
	2	4		
	3	3		
	4	2.5		
	5	2		
	6	1.5		
	7	1		
	8	0.5		
Non-contributor		0		

SIGNED BY/ON BEHALF OF TENDERER:

NAME		SIGNATURE		DATE

T2.2.13 Record Of Addenda To Tender Documents

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:

No.	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		

If there is insufficient space above, the tenderer may append additional sheets.

Number of additional sheets appended by the tenderer to this Schedule (If nil, enter NIL)

SIGNED BY/ON BEHALF OF TENDERER:

NAME		SIGNATURE		DATE

T2.2.14 Performance Management System

The Municipal Finance Management Act (No. 56 of 2003) Section 116 (2) (d) determines that a Municipality must enter into a Performance Management System (PMS) with all service providers.

An assignment specific PMS has been drafted and needs to be signed by the appointed signatory as part of this tender document and the costing for this project will run for 36 months from the date of appointment.

ACCEPTANCE OF PMS AGREEMENT

You are hereby requested to sign this document as acceptance of the agreement. Failure to sign this document will lead to disqualification.

CONTRACTOR

SIGNATURE

NAME

ANNEXURE "B"

PERFORMANCE MANAGEMENT SYSTEM EXTERNAL SERVICE PROVIDERS
(in terms of Section 116 of the Municipal Finance Management Act, Act 56 of 2003)

CONTRACT		BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029			
COMPANY					
TENDER NO		BID 8/2/2/463(7CE6CEPE)	DATE APPROVED		
TERM OF CONTRACT		FROM 1 JULY 2026 TO 30 JUNE 2029			
RESPONSIBLE PERSON FOR ASSESSMENT & COMPLETION OF PERFORMANCE REPORT					
KEY PERFORMANCE AREA	KEY PERFORMANCE INDICATOR	RESPONSIBLE PERSON & TARGET DATE	COMPLIANCE & DATE	DEVIATIONS, IF ANY, PROVIDE REASONS	AGREED RECTIFICATION MEASURES TO COMPLY
A. OPERATIONAL KPI's (TO BE COMPLETED BY RELEVANT DEPARTMENT ACCORDING TO APPROVED TENDER SPECIFICATIONS)					
Project Initiation	1. Submit and obtain approval for Health & Safety file. 2. Inform department of labour about the project. 3. Submit construction programme and obtain approval from the Engineer. 4. Provide Public Liability Insurance of 5 million 5. Provide construction guarantees as required.	Service Provider Within 14 days of award.			
Contract Administration	1. Provide Monthly progress report. 2. Provide an updated construction programme Monthly 3. monthly labour reports as required for EPWP reporting and forward to MLM by 7th of the month. 4. Submit invoices on or before 25th of each month. 5. Attend site meetings as arranged by the Engineer.	Service Provider Monthly.			
Construction	1. Compliance with health and safety requirements. 2. Comply with quality requirements.	Service Provider Monthly or as required.			

Tender

Part T2: Returnable Documents

Tender No. 8/2/2/463(2026-2029)**T2.2****RETURNABLE SCHEDULES**

Submission of Invoices	6. The Original Tax Invoices sub-mitted for payment reflects the following information: 7. On letterhead 8. Business street/physical address 9. Business telephone and fax number 10. Quotation reference number 11. Company VAT Registration Number (if applicable) 12. Midvaal Local Municipality's VAT Registration Number: 4700193503 13. Tax Reference Number 14. 8. Company Registration Number	Service Provider Monthly			
Indemnity Clause	15. Indemnification of Midvaal Local Municipality of any injuries or losses that may occur during the execution of work	Service Provider Annually			
Occupational Health & Safety Act	16. Compliance to Occupational Health & Safety Act at all times	Service Provider Ongoing			
Construction Industry Development Board (on CIDB bids)	17. Construction Guarantee sub-mitted within the stipulated time-frame in the form of: 18. 1. Valid bank guaranteed cheques; or 19. 2. An official bank construction guarantee on letter-head from the bank or institution	Service Provider Annually			

Accepted and agreed upon:_____
ON BEHALF OF SERVICE PROVIDER_____
SIGNATURE: MIDVAAL LOCAL MUNICIPALITY_____
DATE_____
DATE

T2.2.15 Joint Venture Disclosure Form

GENERAL

- i) All the information requested must be filled in the spaces provided. If additional space is required, additional sheets may be used and attached to the original documents.
- ii) A copy of the joint venture agreement must be attached to this form, in order to demonstrate the Affirmable, Joint Venture Partner's share in the ownership, control, management responsibilities, risks and profits of the joint venture, the proposed joint venture agreement must include specific details relating to:
 - a. the contributions of capital and equipment
 - b. work items to be performed by the Affirmable Joint Venture Partner's own forces
 - c. work items to be performed under the supervision of the Affirmable Joint Venture Partner.
- iii) Copies of all written agreements between partners concerning the contract must be attached to this form including those, which relate to ownership options and to restrictions/limits regarding ownership and control.
- iv) ABE partners must complete ABE Declaration Affidavits.
- v) The joint venture must be formalised. All pages of the joint venture agreement must be signed by all the parties concerned. A letter/ notice of intention to formalise a joint venture once the contract has been awarded will not be considered.
- vi) Should any of the above not be complied with, the joint venture will be deemed null and void and will be considered non-responsive.

1. JOINT VENTURE PARTICULARS

a) Name.....

b) Postal address.....

.....

.....

c) Physical address

.....

.....

d) Telephone.....

e) Fax

2. IDENTITY OF EACH NON-AFFIRMABLE JOINT VENTURE PARTNER

2.1(a) Name of Firm

Postal Address.....

Physical Address

Telephone

Fax.....

Contact person for matters pertaining to Joint Venture Participation Goal requirements:

.....

2.2(a) Name of Firm

Postal Address.....

Physical Address

Telephone

Fax.....

Contact person for matters pertaining to Joint Venture Participation Goal requirements:

.....

(Continue as required for further non-Affirmable Joint Venture Partners)

3. IDENTITY OF EACH AFFIRMABLE JOINT VENTURE PARTNER

3.1(a) Name of Firm

Postal Address.....

Physical Address

Telephone

Fax.....

Tender No. 8/2/2/463(2026-2029)

Contact person for matters pertaining to Joint Venture Participation Goal requirements:

.....

3.2(a) Name of Firm

Postal Address.....

Physical Address

Telephone.....

Fax.....

Contact person for matters pertaining to Joint Venture Participation Goal requirements:

.....

3.3(a) Name of Firm

Postal Address.....

Physical Address

Telephone

Fax.....

Contact person for matters pertaining to Joint Venture Participation Goal requirements:

.....

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

4. BRIEF DESCRIPTION OF THE ROLES OF THE AFFIRMABLE JOINT VENTURE PARTNERS IN THE JOINT VENTURE

.....

.....

.....

5. OWNERSHIP OF THE JOINT VENTURE

a) Affirmable Joint Venture Partner ownership percentage(s)%

b) Non-Affirmable Joint Venture Partner ownership percentage(s)%

c) Affirmable Joint Venture Partner percentages in respect of : *

i) Profit and loss sharing

ii) Initial capital contribution in Rands

(*Brief descriptions and further particulars should be provided to clarify percentages).

iii) Anticipated on-going capital contributions in Rands

iv) Contributions of equipment (specify types, quality, and quantities of equipment) to be provided by each partner.

.....

.....

.....

6. RECENT CONTRACTS EXECUTED BY PARTNERS IN THEIR OWN RIGHT AS PRIME CONTRACTORS OR AS PARTNERS IN OTHER JOINT VENTURES

	NON-AFFIRMABLE JOINT VENTURE PARTNERS	PARTNER NAME
a)		
b)		
c)		
d)		

e)		

	AFFIRMABLE JOINT VENTURE PARTNERS	PARTNER NAME
a)		
b)		
c)		
d)		
e)		

7. **CONTROL AND PARTICIPATION IN THE JOINT VENTURE**

(Identify by name and firm those individuals who are, or will be, responsible for, and have authority to engage in the relevant management functions and policy and decision making, indicating any limitations in their authority e.g. co-signature requirements and Rand limits).

a) Joint Venture cheque signing

.....

.....

.....

b) Authority to enter into contracts on behalf of the Joint Venture

.....

.....

.....

c) Signing, co-signing and/or collateralising of loans

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.....

d) Acquisition of lines of credit

.....

.....
.....

- e) Acquisition of performance bonds

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

- f) Negotiating and signing labour agreements

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

8. **MANAGEMENT OF CONTRACT PERFORMANCE**
(Fill in the name and firm of the responsible person).

- a) Supervision of field operations

.....
Major purchasing
.....

- b) Estimating

.....

- c) Technical management

.....

9. **MANAGEMENT AND CONTROL OF JOINT VENTURE**

- a) Identify the “managing partner”, if any,

.....
.....

.....

.....

- b) What authority does each partner have to commit or obligate the other to financial institutions, insurance companies, suppliers, subcontractors and/or other parties participating in the execution of the contemplated works?

.....

.....

.....

.....

- c) Describe the management structure for the Joint Venture's work under the contract

MANAGEMENT FUNCTION / DESIGNATION	NAME	PARTNER*

(Fill in "ex Affirmable Joint Venture Partner" or "ex non-Affirmable Joint Venture Partner".

10. **PERSONNEL**

- a) State the approximate number of operative personnel (by trade/function/discipline) needed to perform the Joint Venture work under the Contract.

TRADE/FUNCTION/ DISCIPLINE	NUMBER EX AFFIRMABLE JOINT VENTURE PARTNERS	NUMBER EX NON- AFFIRMABLE JOINT VENTURE PARTNERS

(Fill in “ex Affirmable Joint Venture Partner” or “ex non-Affirmable Joint Venture Partner”).

- b) Number of operative personnel to be employed on the Contract who are currently in the employ of partners.

(i) Number currently employed by Affirmable Joint Venture Partners

.....

(ii) Number currently employed by the Joint Venture

.....

- c) Number of operative personnel who are not currently in the employ of the respective partner and will be engaged on the project by the Joint Venture

.....
.....

- d) Name of individual(s) who will be responsible for hiring Joint Venture employees

.....
.....

.....
.....

- e) Name of partner who will be responsible for the preparation of Joint Venture payrolls

.....
.....

.....
.....

11. CONTROL AND STRUCTURE OF THE JOINT VENTURE

Briefly describe the manner in which the Joint Venture is structured and controlled.

.....
.....

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.....

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.....

.....
.....

The undersigned warrants that he/she is duly authorised to sign this Joint Venture Disclosure Form and affirms that the foregoing statements are true and correct and include all material information necessary to identify and explain the terms and operations of the Joint Venture and the intended participation of each partner in the undertaking.

The undersigned further covenants and agrees to provide the Employer with complete and accurate information regarding actual Joint Venture work and the payment therefore, and any proposed changes in any provisions of the Joint Venture agreement, and to permit the audit and examination of the books, records and files of the Joint Venture, or those of each partner relevant to the Joint Venture, by duly authorised representatives of the Employer.

Signature

.....

Duly authorised to sign on behalf

of.....

Name

.....

Address

.....

Telephone.....

.....

Date

.....

Signature
.....

Duly authorised to sign on behalf
of.....

Name
.....

Address
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Telephone.....

Date
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Signature
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Duly authorised to sign on behalf
of.....

Name
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Address
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Telephone.....

Date

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Signature

.....

Duly authorised to sign on behalf

of.....

Name

.....

Address

.....

Telephone.....

Date

.....

(Continue as necessary)

T2.2.16 Midvaal Local Municipality Indemnity

1.The Contractor hereby agrees to indemnify, hold harmless and defend Midvaal Local Municipality and their officers, employees, agents and representatives, from and against the following liabilities arising as a result of the execution of the work:

1.1 Any liability with regard to claims by governmental authorities or others for non-compliance by Contractor of any Act of Parliament, law, ordinance, regulation or by-law made by a lawful authority provided that such compliance therewith was required for the execution of the Contract or at Law.

1.2 Any liability arising from actual or alleged public or private nuisance arising out of negligent acts or omissions to act of Contractor or its Subcontractors, or of their employees.

1.3 Any liability arising from loss or damage to Contractor and/or Subcontractor's equipment and their other property on site.

1.4 Any liability arising from claims with regard to the death of/or injury or sickness or disease to Contractor' employees or the death of/or injury or sickness or disease to third parties.

1.5 Any liability arising from any loss of/or damage to property belonging to a third party.

1.6 Any liability arising from actual or asserted infringement or improper appropriation or use of patents, copyrights, proprietary information or know- how in respect of the work designed by/or under the responsibility of the Contractor.

1.7 Any liability arising from the death or injury or loss or damage to property of third parties or Midvaal Local Municipality's property as a result of the negligent acts or omissions of contractors or its subcontractor's employees.

1.8 Contractor shall indemnify Midvaal Local Municipality against all claims, proceedings, damages and costs of whatsoever nature arising out of contravention of environmental legislation.

I,/463/463/463/463/463/463/463__the undersigned (duly authorised to sign) hereby declare that I have read and understood the abovementioned and agree to all the above.

COMPANY:	
ADDRESS:	
TEL:	
CELL:	

T2.2.17 Municipal Services, Rates and Taxes Clearance Certificate for Supply Chain Purpose

The purpose of this form is to obtain proof that municipal services, rates and taxes of the service provider are not more than three months in arrears with the relevant municipality / landlord in the municipal area where the service provider conduct his / her business. **This form is to be completed only if the service provider's rates and taxes are not in arrears for more than three months.**

PART A – to be completed by the relevant municipality in the case where the service provider is the registered owner of the site / owner pays for municipal services / tenant pays for municipal services

OR

PART B – to be completed by the landlord in the case where the service provider is renting the premises / rental pay by tenant include municipal services.

PART A (TO BE COMPLETED BY THE LOCAL AUTHORITY)	
Name of the Municipality:	
Property Physical Address:	
Registered Name:	
Official's Name: _____	Municipality Stamp Here
Signature : _____	
Date: _____	
Please indicate whether company/owner in arrears or up-to-date	
Rates and taxes : Up-to-date/in arrears for more than 3 months Water:	
	Up-to-date/in arrears for more than 3 months
Electricity:	Up-to-date/in arrears for more than 3 months Refuse
:	Up-to-date/in arrears for more than 3 months
Other services:	Up-to-date/in arrears for more than 3 months
PART B (TO BE COMPLETED BY THE LANDLORD)	
Name of the Landlord:	
Property Physical Address:	
Landlord Signature:	
Date: _____	Landlord's business stamp here
Or an Affidavit from SAPS in the event the landlord does not have a business stamp)	
Please tick whether up-to-date or in arrears	
Rental:	Up-to-date/ in arrears for more than 3 months
Municipal services:	Up-to-date/ in arrears for more than 3 months

SIGNED BY/ON BEHALF OF TENDERER:

NAME

SIGNATURE

DATE

T2.2.18 Declaration of Interest (MBD4)

1. No bid will be accepted from persons in the service of the state.
2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position relation to the evaluating/adjudicating authority.
3. A Person who is an advisor or consultant contracted with the municipality.
4. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

4.1 Full Name of bidder or his or her representative:

4.2

Identity Number:

4.3 Position occupied in the Company (director, trustee, shareholder²):

4.4 Company Registration Number:

4.5 Tax Reference Number:

4.6 VAT Registration Number:

4.7 The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.

4.8 Are you presently in the service of the state?
NO

YES

If so, furnish particulars.

1 MSCM Regulations: "in the service of the state" means to be –

- (a) A member of –
- any municipal council;

- any provincial legislature; or
- the national Assembly or the national Council of provinces;
- (b) a member of the board of directors of any municipal entity;
- (c) an official of any municipality or municipal entity;
- (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the public Finance Management Act, 1999 (Act No 1 of 1999);
- (e) a member of the accounting authority of any national or provincial public entity; or
- (f) an employee of Parliament or a provincial legislature.

² 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.

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

YES

NO

If so, furnish particulars.

4.10 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 so, furnish particulars.

4.11 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 so, furnish particulars.

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

YES NO

If so, furnish particulars.

- 1.2 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 so, furnish particulars.

- 1.3 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 so, furnish particulars.

2. Full details of directors / trustees / members / shareholders.

FULL NAME	IDENTITY NUMBER	STATE EMPLOYEE NUMBER

Please note that The Federal Executive of the DA resolved as follows:

"That no office-bearer or member of the professional staff of the Party, or any company, partnership, close corporation or similar juristic entity in which such office-bearer or member of the professional staff has an interest, may tender for or contract to provide any goods or services to any DA controlled government.

For the purposes of this resolution:

"office-bearer" means any public representative or member of the Federal Executive, a provincial executive, a provincial management committee, a regional executive or a constituency executive;

"an interest" means that the office bearer or member of the professional staff has a 5% of more stake; and

"member of the professional staff" means any person who has an employment contract with the Party, and includes any person who is employed by the Party but who is paid by an organ of state, but does not include any person paid a gratuity or honorarium for services rendered to the Party."

- 6.1 Are you or your company an office-bearer by means of any public representative or member of the Federal Executive, a provincial executive, a provincial management committee, a regional executive or a constituency executive?

YES NO

If so, furnish particulars.

- 6.2 Do you or your company have an interest by means that the office bearer or member of the professional staff has a 5% of more stakes?

YES NO

If so, furnish particulars.

- 6.3 Are you or your company a member of the professional staff by means any person who has an employment contract with the Party, and includes any person who is employed by the Party but who is paid by an organ of state, but does not include any person paid a gratuity or honorarium for services rendered to the Party?

YES NO

If so, furnish particulars.

CERTIFICATION

I, THE UNDERSIGNED (NAME)

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

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

SIGNATURE DATE

POSITION NAME OF BIDDER

T2.2.19 Declaration for Procurement above R10 Million (Vat Included)-MBD5

TENDERERS MUST COMPLETE THE FOLLOWING QUESTIONNAIRE:

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

YES / NO

- 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.

.....
.....

- 1.2. If no, un-audited financial statements must be submitted with your tender.

.....
.....

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

YES / NO

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

- 2.2. If yes, provide particulars.

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

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

YES / NO

- 3.1. If yes, furnish particulars.

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

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME)

.....

.....

CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS 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.

POSITION		SIGNATURE		DATE

T2.2.20 Preference Points Claim Form In Terms of the Preferential Procurement Regulations 2022 (Purchases) (MBD6.1)

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

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

1. GENERAL CONDITIONS

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

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

1.2 To be completed by the organ of state

- a) The applicable preference point system for this tender is the 90/10 preference point system. OR
- b) The applicable preference point system for this tender is the 80/20 preference point system.
- c) Either the 90/10 or 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

1.4 To be completed by the organ of state

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	90
SPECIFIC GOALS	10
Total points for Price and SPECIFIC GOALS	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

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

2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

- (d) “**tender for income-generating contracts**” means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) “**the Act**” means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1 THE 80/20 or 90/10 PREFERENCE POINT SYSTEMS

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

$$P_s = 80 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right) \quad \text{or} \quad P_s = 90 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)$$

Where

P_s = Points scored for price of tender under consideration

P_t = Price of bid under consideration

P_{min} = Price of lowest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1 In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2 If it is unclear whether the 80/20 or 90/10 preference point system applies, the following will apply:—
- an invitation for tender for income-generating contracts, either the 80/20 or 90/10 preference point system will apply and the highest acceptable tender will be used to determine the applicable preference point system; or
 - any other invitation for tender, either the 80/20 or 90/10 preference point system will apply and the lowest acceptable tender will be used to determine the applicable preference point system;
- then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Local Enterprise	5	N/A		N/A
B-BBEE	5	N/A		N/A

DECLARATION WITH REGARD TO COMPANY/FIRM

- 4.3 Name of company/firm _____
- 4.4 Company registration number _____
- 4.5 TYPE OF COMPANY/ FIRM
- ☐ Partnership/Joint Venture / Consortium
 - ☐ One person business/sole propriety
 - ☐ Close corporation
 - ☐ Public Company
 - ☐ Personal Liability Company
 - ☐ (Pty) Limited
 - ☐ Non-Profit Company
 - ☐ State Owned Company
- [TICK APPLICABLE BOX]
- 4.6 I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:
- i) The information furnished is true and correct;
 - ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
 - iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
 - iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

T2.2.21 Declaration Of Bidder's Past Supply Chain Management Practices (MBD 8)

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

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

Item	Question	Yes	No
4.1	Is the bidder or any of its directors listed on the National Treasury's Database 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.	Yes ☐	No ☐
4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? 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.	Yes ☐	No ☐
4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes ☐	No ☐
4.3.1	If so, furnish particulars:		
Item	Question	Yes	No
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes ☐	No ☐

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

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME) _____

CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM TRUE AND CORRECT.

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

SIGNATURE

DATE

POSITION

NAME OF BIDDER

1. This Municipal Bidding Document (MBD) must form part of all bids¹ invited.
2. Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).²² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
3. Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
 - a. take all reasonable steps to prevent such abuse;
 - b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
 - c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
4. This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
5. In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid:

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

Contract No: 8/2/2/463: BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029.

I certify, on behalf of: _____ that:
(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been

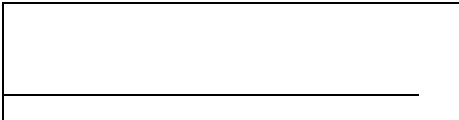
authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;

5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
- (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or 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; or
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the

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

products or services to which this bid invitation relates.

1. 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.
2. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No. 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No. 12 of 2004 or any other applicable legislation.


SIGNATURE


DATE





POSITION

NAME OF BIDDER

T2.2.23 Specific Details of Tenderer

Tenderer:

Address:
.....
.....
.....

Contact Person:

Telephone Number:

Fax Number:

Bank:

Branch:

Name of Cheque Account:

Cheque Account Number:

Contact Person:

Telephone Number:

Guarantee:

Branch:

Contact Person:

Telephone Number:

VAT Registration No:
.....Signe

d Date.....

Name..... Position

Tenderer

T2.2.24 Form Concerning Fulfilment of the Construction Regulations 2003

In terms of regulation 4(3) of the Construction Regulations, 2003 (hereinafter referred to as the Regulations), promulgated on 18 July 2003 in terms of Section 43 of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) the Employer shall not appoint a contractor to perform construction work unless the Contractor can satisfy the Employer that his/her firm has the necessary competencies and resources to carry out the work safely and has allowed adequately in his/her tender for the due fulfilment of all the applicable requirements of the Act and the Regulations.

1. I confirm that I am fully conversant with the Regulations and that my company has
(or will acquire/procure) the necessary competencies and resources to
timeously, safely and successfully comply with all of the requirements of the Regulations.

(Tick)	YES	
(Tick)	NO	

2. Proposed approach to achieve compliance with the Regulations

Own resources, competent in terms of the Regulations (refer to 3 below)	
Own resources, still to be hired and/or trained (until competency is achieved)	
Specialist subcontract resources (competent) - specify:	

3. Provide details of proposed key persons, competent in terms of the Regulations, who will form part of the Contract team as specified in the Regulations (CVs to be attached):
.....
.....
.....

4. Provide details of proposed training (if any) that will be undergone:
.....
.....
.....
.....

5. Potential key risks identified and measures for addressing risks:
.....
.....
.....
.....

6. I have fully included in my tendered rates and prices (in the appropriate payment items provided in the Schedule of Quantities) for all resources, actions, training and any other costs required for the due fulfilment of the Regulations for the duration of the construction and defects repair period. (Tick)

YES	
NO	

SIGNED BY/ON BEHALF OF TENDERER:

NAME		SIGNATURE		DATE

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T2.2.26 Schedule Of Local Labour Content

TENDERER'S PARTICIPATION IN JOB CREATION USING LOCAL LABOUR

The Contractor shall be required to participate in job creation (employment of local labour) by executing various portions of the Works using local labour (unskilled or semi-skilled), recruited from the local community, who are South African Citizens or foreigners in possession of a work visa issued by the Department of Home Affairs (only one such foreigner may be employed on any project). Proof of citizenship or work visa may be audited during the contract period.

The creation of one job shall mean the temporary employment, for any period of time, of one such unskilled or semi-skilled labourer from the local community.

The Tenderer shall note the requirements for Job Creation Reporting for EPWP as set out in the Requirements of the Expanded Public Works Programme (EPWP) of the project specifications.

The number of jobs to be created using such local labour is inclusive of the local labour employed to execute various portions of the Works by both the main Contractor and any subcontractors, including the small development subcontractors.

The number of jobs to be created using such local labour shall include for a minimum percentage allocation to the following individual targeted groups:

- 60% Women.
- 55% Youth; and
- 2% Disabled.

The minimum required content of such local labour for this project shall be calculated as follows:

Minimum required content of such local labour (%)

$$= \frac{(100 \times \text{amount spent on wages for such local labour (excluding VAT)})}{(\text{total value of the project (excluding VAT)})}$$

The minimum required content of such local labour for this project shall be ____%.

(Compiler to insert the target minimum percentage based on detailed calculations of the local labour component anticipated for each scheduled pay item, including the pay items contributing to the provisional sum associated with the construction Works carried out by Targeted Enterprise subcontractors appointed).

For purposes of completing the table on the next page containing the Tenderer's declaration with respect to participation in job creation using local labour, the total value of the project shall be the amount of the Tender Offer.

TENDERER'S DECLARATION WITH RESPECT TO PARTICIPATION IN JOB CREATION USING LOCAL LABOUR:

The Tenderer shall complete the table below reflecting the anticipated local labour force to be employed on this contract, including such local labour employed by subcontractors.

I/We hereby tender to participate in job creation through the employment of local labour by creating the following number of jobs using unskilled or semi-skilled labourers, recruited from the local community, who are South African Citizens or foreigners in possession of a work visa issued by the Department of Home Affairs (only one such foreigner may be employed on any project), including for a minimum allocation of 60% Women, 55% Youth and 2% Disabled

A penalty shall be applied to any shortfall in the local labour content achieved, as set out in the Requirements of the Expanded Public Works Programme (EPWP) of the project specifications. The penalty shall not apply to shortfalls in the allocations to the individual target groups (i.e., Women/Youth/Disabled), only to shortfalls in the total local labour content achieved.

Name:

Duly authorized to sign on behalf of:

/463/463/463/463/463/463/463_
DATE:

Failure to complete, sign and date this form shall result in the tender being considered non-responsive in terms of subclause F.3.8 of the Conditions of Tender and such a tender shall be rejected.

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T2.2.27 Consent And Acknowledgments in Terms of The Protection of Personal Information Act 2013 (POPI)

This section sets out how personal information will be collected, used and protected by Midvaal Local Municipality hereinafter referred to as "MLM", as required by the Protection of Personal Information Act. The use of the words "the individual" for the purposes of this document shall be a reference to any individual (bidder) communicating with MLM and/or concluding any agreement, registration or application, with the inclusion of each of those individuals referred to or included in terms of such agreement, registration or application.

1. What is personal information?

The personal information that MLM requires relate to names and surnames, birth dates, identity numbers, passport numbers, demographic information, education information, occupation information, health information, addresses, memberships, and personal and work email and contact details.

2. What is the purpose of the collection, use and disclosure (the processing) of personal information?

MLM is legally obligated to collect, use and disclose personal information for the purposes of:

- reporting MLM initiatives to the Gauteng Provincial Treasury and Sedibeng District Municipality;
- reporting to National Treasury all contracts awarded;
- obtaining information related to Tax Compliance information from SARS;
- Verifying information on the National Treasury database of defaulters;
- evaluating and processing applications for registration on the database;
- compiling statistics and other reports;
- providing personalised communications;
- complying with the law; and/or
- for a purpose that is ancillary to the above. Personal information will not be processed for a purpose other than what is identified (the purpose) above without obtaining consent beforehand.

3. How will MLM process personal information?

MLM will only collect personal information for the purpose as stated above. Information will be collected in the following manner:

- directly from the individual;
- from service providers who provided with services or goods to MLM;
- from MLM's own records relating to previous supply of services or goods; and/or
- from a relevant public or equivalent entity.

4. To whom will personal information be disclosed?

The personal information may be disclosed to other relevant public or other entities on whose behalf we act as intermediaries, other third parties referred to above in relation to the purpose or who are sources of personal information, service providers such as professional bodies who operate across the borders of this country (transborder flow of information) where personal information must be sent in order to provide the information and/or services and/or benefits requested or applied for. In the event of another party/ies acquiring all of or a portion of MLM's mandate or functions, personal information will be disclosed to that party but they will equally be obliged as we are, to protect personal information in terms of this policy and the law.

5. Consent and Permission to process personal information:

I hereby agree with the policy and provide authorisation to MLM to process the personal information provided for the purpose stated.

- I understand that withholding of or failure to disclose personal information will result in MLM being unable to perform its functions and/or any services or benefits I may require from MLM.
- Where I shared personal information of individuals other than myself with MLM I hereby provide consent on their behalf to the collection, use and disclosure of their personal information in terms of this personal information policy and I warrant that I am authorised to give this consent on their behalf.
- To this end, I indemnify and hold MLM not responsible in respect of any claims by any

other person on whose behalf I have consented, against MLM should they claim that I was not so authorised.

- I understand that in terms of POPI and other laws of the country, there are instances where my express consent is not necessary in order to permit the processing of personal information, which may be related to police investigations, litigation or when personal information is publicly available.
- I will not hold MLM responsible for any improper or unauthorised use of personal information that is beyond its reasonable control.

6. Rights regarding the processing of personal information:

- The individual may withdraw consent to the processing of personal information at any time, and should they wish to do so, must provide MLM with reasonable notice to this effect. Please note that withdrawal of consent is still subject to the terms and conditions of any contract that is in place. Should the withdrawal of consent result in the interference of legal obligations, then such withdrawal will only be effective if MLM agrees to same in writing. MLM specifically draws to the attention that the withdrawal of consent may result in it being unable to provide the requested information and/or services and/or financial or other benefits.
- In order to withdraw consent, please contact the Information Officer at Johannesm@midvaal.gov.za
- A copy of the full MLM policy is available at our offices, situated at Head Office, 25 Mitchell Street, Meyerton, 1961, South Africa.
- Individuals are encouraged to ensure that where personal information has changed in any respect to notify MLM so that our records may be updated. MLM will largely rely on the individual to ensure that personal information is correct and accurate.
- The individual has the right to access their personal information that MLM may have in its possession and are entitled to request the identity of which third parties have received and/or processed personal information for the purpose. Please note however, that any request in this regard may be declined if:
 - the information comes under legal privilege in the course of litigation,
 - the disclosure of personal information in the form that it is processed may result in the disclosure of confidential or proprietary information,
 - giving access may cause a third party to refuse to provide similar information to MLM,
 - the information was collected in furtherance of an investigation or legal dispute, instituted or being contemplated,
 - the information as it is disclosed may result in the disclosure of another person's information,
 - the information contains an opinion about another person and that person has not consented, and/or
 - the disclosure is prohibited by law.

7. Requesting access and lodging of complaints:

- Please submit any requests for access to personal information in writing to MLM's information officer at Johannesm@midvaal.gov.za
- With any request for access to personal information, MLM will require the individual to provide personal information in order to verify identification and therefore the right to access the information.
- There may be a reasonable charge for providing copies of the information requested.
- If any request has not been addressed to satisfaction a complaint may be lodged at the office of the Information Regulator.

SIGNED BY/ON BEHALF OF TENDERER:

NAME		SIGNATURE		DATE

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T2.2.27 Certificate Of Registration Of Contractor

CIDB Contractor Registration Certificate

A Certificate of Contractor's Registration issued by the Construction Industry Development Board (CIDB) shall be attached.

Where a tenderer satisfies CIDB Contractor grading designation requirements through joint venture formation, such tenderers must submit the Certificates of Contractor Registration in respect of each partner.

Volume	1	2				
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T2.2.28 Financial Details, Statements and Bank References

1. FINANCIAL STATEMENTS

I/We agree, if required, to furnish a copy of the latest audited set of financial statement together with my/our Director's and Auditor's report for consideration by the RAL.

2. DETAILS OF TENDERER'S BANK ACCOUNT

MUST BE COMPLETED BY TENDERER'S BANK

- a) Account Holder Name:
- b) Name of Bank:
- c) Branch of Bank
- d) Town/city/suburb where bank is situated
- e) Contact Person at the Bank:
- f) Telephone number of Bank: Code: Number:
- g) Account Number:
- h) Bank rating:.....

SIGNED ON BEHALF OF THE BANK

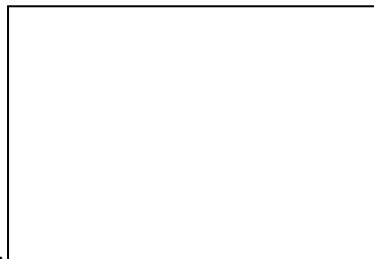
NAME OF BANK OFFICIAL:.....

DESIGNATION:.....

SIGNATURE:.....

DATE:.....

BANK STAMP



- 3. I/We hereby authorise the Employer to approach the above Bank for confirmation.

SIGNED ON BEHALF OF THE TENDERER:.....

DATE:.....

NB: ANY OTHER DOCUMENT WILL NOT BE ACCEPTED

Volume	1	2					
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T2.2.29 Tax Clearance Certificate

An **original** valid Tax Clearance Certificate from the South African Revenue Service (SARS) or proof shall be attached (or proof that the tenderer has made arrangements with SARS to meet his or her outstanding tax obligations).

Each party to a Consortium/Joint Venture shall submit a separate Tax Clearance Certificate, or proof that he or she has made the necessary arrangements with SARS.

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Part	T1	T2	C1	C2	C3	C4

T2.2.30 Occupational Health & Safety Compliance and Health & Safety Plan

Tenderers are to note the requirements of the **Occupational Health and Safety Act, No. 85 of 1993**, the **Construction Regulations, 2014** (issued in terms of Section 43 of the Act), and the **Compensation for Occupational Injuries and Diseases Act, No. 130 of 1993 (COID)**.

The tenderer shall be deemed to have read, understood, and allowed for all costs associated with compliance with the above legislation and regulations.

Tenderers are required to prepare and submit a **Health and Safety Plan** for the Works demonstrating the necessary competencies, systems, and resources to perform the construction work in compliance with the applicable legislation and safety specifications. The Health and Safety Plan shall include, but not be limited to, the following:

- Management structure, site supervision, responsible persons, and succession planning
- Induction training programme for employees, subcontractors, and visitors
- Health and safety precautions and procedures to ensure compliance with the Act, Regulations, and Safety Specifications
- Monitoring and reporting procedures
- Liaison, consultation, and review meetings with relevant parties
- Site security, welfare facilities, and first aid arrangements
- Site rules, fire procedures, and emergency response procedures

The Contractor shall ensure that all subcontractors or other parties engaged in the execution of the Works comply with the Occupational Health and Safety Act and Construction Regulations.

Tenderers shall also attach the following documentation as proof of compliance:

- A **valid Letter of Good Standing** issued by the Compensation Commissioner or an approved compensation insurer in terms of COID
- Proof of registration with a compensation insurer approved by the Department of Employment and Labour
- Disclosure, with supporting documentation, of any **Department of Labour inspections or investigations and their outcomes** conducted within the **36 months preceding the tender closing date**

Tenderers must take into account any additional Occupational Health and Safety requirements contained in the **Scope of Work** when preparing the Health and Safety Plan.

Failure to disclose required information or submit valid supporting documentation may result in the **disqualification of the tender or termination of the contract**.

SIGNED ON BEHALF OF THE TENDERER: /463/463/463/463/463/463/463/463/463

DATE: /463/463/463/463/463/463/463/463/463

Details of the Health and Safety Plan shall be appended to this Schedule.

Number of sheets appended by the tenderer to this Schedule

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Part	T1	T2	C1	C2	C3	C4

CONTRACT NO 8/2/2/463(2026-2029) PAGE (xcv)
 BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF
 AGED WATER RETICULATION PIPELINES AND ASSOCIATED
 INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS
 AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Agreement and Contract Data



VOLUME 1

PART 1: AGREEMENT AND CONTRACT DATA

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CONTRACT NO 8/2/2/463 PAGE (xcvi)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Agreement and Contract Data

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Agreement and Contract Data

C1.1 FORM OF OFFER AND ACCEPTANCE (AGREEMENT)

FORM OF OFFER

THE TENDERER IS TO COMPLETE AND SIGN THE FORM OF 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. 8/2/2/463 BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029.

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 authorized, signing this part of this Form of Offer and Acceptance, the Tenderer offers to perform all of the obligations and liabilities of the Contractor/Service Provider 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 and Pricing data.

THE OFFERED RATES TO PROVIDE THE WORKS, EXCLUSIVE OF VALUE ADDED TAX, ARE AS SET OUT IN THE PRICING DATA

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

Signature(s)

Name(s)

Capacity

For the Tenderer

 (Name and address of organisation)

**Name
signature
witness**

**and
of**

Date _____

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Part	T1	T2	C1	C2	C3	C4

Agreement and Contract Data

C1.1.2 FORM OF ACCEPTANCE

THE EMPLOYER IS TO COMPLETE AND SIGN THE FORM OF ACCEPTANCE

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

The terms of the contract are contained in

- Part 1 Agreement and Contract Data, (which includes this Agreement)
- Part 2 Pricing Data
- Part 3 Scope of Work
- Part 4 Site Information
- Part 5 Drawings

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

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto 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 representative(s) of both parties.

The Tenderer shall within 28 days 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 Contact 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 of 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 the Contractor) within five days after 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 binding contract between the parties,

FOR EMPLOYER OFFICIAL USE ONLY

Signature(s)

Name(s)

Capacity

For the Employer

 (Name and address of organisation)

Name
signature
witness

and
of

Date _____

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Part	T1	T2	C1	C2	C3	C4

Agreement and Contract Data

C1.1.3 SCHEDULE OF DEVIATIONS

Notes:

1. The extent of deviations from the tender documents issued by the employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender;
2. A Tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here;
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here; and
4. Any change or addition to the tender documents arising from the above arrangements and recorded here shall also be incorporated into the final draft of the Contract.

1 Subject _____

Details _____

2 Subject _____

Details _____

3 Subject _____

Details _____

4 Subject _____

Details _____

5 Subject _____

Details _____

6 Subject _____

Details _____

7 Subject _____

Details _____

8 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 the process of offer and acceptance.

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BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Agreement and Contract Data

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 and signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

For the Tenderer:

Signature(s)

Name(s)

Capacity

(Name and address of organisation)

**Name
signature
witness** and
of

Date _____

For the Employer:

Signature(s)

Name(s)

Capacity

(Name and address of organisation)

**Name
signature
witness** and
of

Date _____

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Agreement and Contract Data**C1.2 CONTRACT DATA**

The General Conditions of Contract for Construction Works (2025) published by the South African Institution of Civil Engineering, are applicable to this contract.

Copies of these conditions of contract may be obtained from the South African Institution of Civil Engineering (Telephone number: 011-805 5947) Website: <http://www.saice.org.za>

C1.2.1 PART 1: DATA PROVIDED BY THE EMPLOYER

GCC Clause	Information
1.1.1.15	The name of the Employer is Midvaal Local Municipality
1.2.1	The address of the Employer is: Address Tel: 016 360 5821 25 Mitchell Street, Fax: 086 502 0523 Meyerton, 1961 Email: Midvaal
1.1.1.16	The name of the Employer's Agent is: Director: Technical Support Services Midvaal Local Municipality
1.1.1.17	Employer's Agent's Representative: Shall be communicated in the relevant Works Order.
1.2.1.2	The address of the Employer's Agent: Director- Technical Support Services Address Tel: 016 360 5821 58 Rooibok Street, Fax: 086 502 0523 Highbury, 1961 Email: Midvaal
5.8.1	The special non-working days are All Public Holidays in terms of the Public Holidays Act as amended.
5.8.1	The year end break commences on 16 December until the first working Monday of January of the succeeding year.
6.2.1	The Guarantee is to contain the same wording as indicated in the document included as C1.3 under returnable documents. The Guarantee is to be delivered fourteen days (14) days after the Letter of Acceptance. In the event of failure to submit the guarantee within the stipulated 14 days, the Midvaal Local Municipality reserves the right to cancel the contract and award the Bid to the tenderer who scored the second highest points. The amount of the Guarantee is to be: No surety for projects between R0 and R 500 000 1% surety for projects between R500 000 and R1 million 2,5% surety for projects between R1 million and R2 million 5% surety for projects above R2 million not exceeding R5 million 10% surety for projects above R5 million of the Contract Price.
1.1.1.14	The time for achieving Practical Completion will be dependent on individual works orders.

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Agreement and Contract Data

GCC Clause	Information
5.3.1	The documentation required before commencement with works executed are: • Health and Safety Plan (Clause 4.3) • Guarantee from Bank or Insurance Company (Clause 6.2) • Insurance of Construction Machinery Plant (Clause 8.6) • Insurance of Motor Vehicle liability (Clause 8.6) • Commissioner of COID (Clause 8.6) • Signed Notification to the Department of labour • Construction Permit where applicable
6.8.2	The value of payment certificates is to be adjusted in accordance with the Contract Price Adjustment Schedule, where The value of "x" is 0,150 The values of the co-efficient are: Note : The Project is subjected to "CPA" $(1-x) \left[\frac{aLt}{Lo} + \frac{bPt}{Po} + \frac{cMt}{Mo} + \frac{dFt}{Fo} - 1 \right]$ Fixed : Estimate less than R10 000 000 or period less than 6 months CPA: Estimate more than R10 000 000 or a contract period of more than 6 months. a = 0,30 (labour) b = 0,30 (plant) c = 0,35 (material) d = 0,05 (fuel) "L" is the "Labour Index" and shall be the "Consumer Price Index" for the urban area nearest to the Site as specified by the Engineer in the Appendix to the Tender and as published in the Statistical News Release, P0141, Table 7.1 (previously P0141.1 Table 21) of Statistics South Africa. "P" is the "Plant Index" and shall be the "Civil Engineering Plant Index" as published in the Statistical News Release P0142.1, Table 12 (previously P0142.1 Table 16) of Statistics South Africa. "M" is the "Materials Index" and shall be the "Civil Engineering Materials Index" as published in the Statistical News Release P0142.1, Table 11 (previously P0142.1 Table 15) of Statistics South Africa. "F" is the "Fuel Index" and shall be the "Diesel at wholesale level – Coast/Witwatersrand Index" as published in the Statistical News Release P0142.1, Table 12 (previously P0142.1 Table 16) of Statistics South Africa. The suffix "o" denotes the basic indices applicable to the base month, which shall be the month prior to the month in which the closing date for the tender falls. The suffix "t" denotes the current indices applicable to the month in which the last day of the period falls to which the relevant payment certificate relates. If any index relevant to any particular certificate is not known at the time when the certificate is prepared, the Engineer shall estimate the value of such index. Any correction, which may

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Agreement and Contract Data

GCC Clause	Information
	be necessary when the correct indices become known, shall be made by the Engineer in subsequent payment certificates. The urban area nearest the site is Meyerton The base month is May 2026.
6.8.3	The rates and prices for the special materials shall be furnished by the contractor, which rates and prices ex refinery with the base date specified under 6.8.2 and shall exclude VAT but shall include all other obligatory taxes and levies on the basis specified in the contract price adjustment schedule (paragraph 4(i) and 4(ii)).
6.10.1.5	(80%) percentage claim for materials onsite will be permitted.
6.10.3	The percentage retention on the amounts due to the Contractor is 10%. A Retention Money Guarantee is compulsory. A penalty will be applied for non-delivery of the Retention Money Guarantee as required. The penalty will be 10% of the value of the completion Retention Money Amount per calendar month for late delivery of the said Retention Money Guarantee.
6.10.6	A Retention Money Guarantee is not permitted.
1.1.1.13	The Defects Liability Period is 12 months (52 weeks), from completion of a particular work order or instruction.
10.4.2	Dispute resolution shall be by arbitration if amicable settlement has failed.

C1.2.1.1 Variations

The variations to the General Conditions of Contract are:

GCC Clause	Information
8.6.1.1	for which the Contractor is responsible for the Works in terms of Clause 8.2.1, and
8.6.1.1.2	a sum to cover the value (specified at the time of delivery to the Contractor) of materials supplied by the Employer for incorporation in the Works and not included in the Contract Price, and
8.6.1.1.3	a sum to cover professional fees, not included in the Contract Price, payable in respect of the repair or reinstatement of damage to the Works.
8.6.1.2	Public Liability Insurance which will provide indemnity against legal liability in the event of accidental death of or injury to third party persons and/or loss or damage to third party property arising directly from the execution of the Contract and occurring during the period of Insurance with a limit of indemnity of R10million in respect of all claims arising from any one occurrence or series of occurrences consequent on or attributable to one source or original cause.
8.6.1.3	Following the introduction of legislation affecting the articles of the South African Special Risks Insurance Association (SASRIA) , insurance cover for loss or damage to the Works caused by any event defined as a risk in terms of the insurance offered by SASRIA, will be provided under a certificate issued by SASRIA.

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GCC Clause	Information
8.6.2	The Employer/Contractor/Sub-contractors and/or any other party who obtains indemnity under the policies effected under 35.1.1, 35.1.2 and 35.1.3 above shall become liable for the deductibles (first amount payable) which are applicable in respect of each and every occurrence or series of occurrences attributable to one source or cause giving rise to loss or damage or indemnifiable liability.
8.6.5	The Contractor shall insure all Constructional Machinery and Plant (including tools, offices and other temporary structures and content) and other items, other than those intended for incorporation into the works, owned, leased or hired brought on to the Site against all risks of physical loss or damage for the period such Plant shall be on the Site to the full value thereof. In respect of Plant brought on to the Site by or on behalf of Sub-Contractors the Contractor shall be deemed to have complied with the provisions of this Sub-Clause by ensuring that such Sub-Contractors have similarly insured such Plant and Machinery.
8.6.6	The Contractor and the Sub-contractors shall effect and maintain at their cost insurance under the provision of the Compensation for Occupational Injuries and Diseases Act (COID), 1993 (Act No. 130 of 1993).
8.6.7	The Contractor and the Sub-Contractors shall effect and maintain at their own cost motor vehicle liability insurance with at least indemnification for "balance of third party" risks, including passenger liability with a limit of indemnity of not less than R2,5million.
8.6.10	The Contractor shall give all notices and observe all conditions and requirements imposed by any and all relevant insurance policies which shall be read as being part of the General Conditions of Contract and which shall be binding on the Contractor.
8.6.11	In addition to any statutory obligations, or other requirements contained in the Conditions of Contract, the Contractor shall report in writing to both the Engineer and the Employer's Insurance Brokers every accident within 48 hours of its occurrence, whether such accident is in respect of damage to persons or property. The report shall contain full details of the accident. The Engineer and/or the Employer's Insurers shall have the right to make all and any enquiries either on the Site or elsewhere as to the cause and results of any such accident and the Contractor shall give the Engineer and/or the Employer's Insurers full facilities for carrying out such enquiries.
8.6.12	Negotiations on the settlement of claims under the insurance effected by the Employer shall be conducted by the Contractor/Sub-Contractor with the Insurers through the Employer's Representative
8.6.13	Any claims against the insurance effected by the Employer shall be subject to the Contractor being responsible for the payment of the amount stated in the Policy as being the Deductible (First Amount Payable) as defined in the Policy.
8.6.14	The Employer shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequence of any accident or injury to any workman or other person in the employ of the Contractor or any Sub-Contractor save and except an accident or injury resulting from any act or default of the Employer, its agents or servants and the Contractor shall be deemed to have indemnified and shall keep indemnified the Employer against all such damages and compensation (save and except as aforesaid) and against all claims, demands, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto.

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BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Agreement and Contract Data

GCC Clause	Information
8.6.17	The Contractor shall ensure that all proposed and appointed sub-contractors are fully aware of the contents of Clause 8.6.14
8.6.18	The liability of performance guarantee shall be 10% of the Contract Value

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Agreement and Contract Data**C1.2.1.2. Additions**

The additional Conditions of Contract are:

GCC Clause	Information
2.4	Ambiguity in documents Add clause 2.4 The Employer or the Contractor shall notify the other as soon as either becomes aware of an ambiguity or inconsistency in or between the documents, which are part of this Contract. Governed by the spirit and intention of the Contract, the Employer shall give a binding instruction resolving the ambiguity or inconsistency.
5.9.1	Instructions and drawings Add clause 5.9.1 5.9.1 Source of instructions The Contractor shall neither seek nor accept instructions from any authority external to the Employer, the Engineer or their authorized representatives in connection with the performance of his services under this Contract. The Contractor shall refrain from any action which may adversely affect the Employer and shall fulfill his commitments with fullest regard for the interest of the Employer.
5.9.1	Instructions and drawings Add clause 5.9.1 5.9.1.1 Instructions The Engineer may issue contract instructions to the Contractor regarding: 5.9.1.2 Alteration to design, quality or quantity of the works provided that such contract instructions shall not substantially change the scope of the works. 5.9.1.3 Rectification of discrepancies, errors in description or omissions in contract documents other than this document. 5.9.1.4 Removal of any materials and goods from the site and the substitution of any other materials and goods therefor. 5.9.1.5 Removal or re-execution of any work. 5.9.1.6 Opening up of work for inspection. 5.9.1.7 Provision and testing of samples of materials and goods, specimens of finished and assemblies of elements of the works. 5.9.1.8 Protection of the works. 5.9.1.9 Making good physical loss and repairing damage to the works. 5.9.1.10 Removal from the site of any party employed on the works. 5.9.1.11 Removal from the site of any persons not engaged on or connected with the works. 5.9.1.12 The appointment of nominated subcontractors, the nominated subcontract amounts and the work to be executed thereunder. 5.9.1.13 Proof of payment to nominated subcontractors. 5.9.1.14 Notices to nominated subcontractors. 5.9.1.15 Prime cost amounts and the purchase of materials and goods included therein. 5.9.1.16 Budgetary allowances and work executed by the contractor thereunder.
5.9.13	Instructions and drawings Add clause 5.9.1 5.9.1.17 Default of Contractor in carrying out Engineer's or his duly authorized representative Instructions In case of default on the part of the Contractor in carrying out an instruction of the Engineer or his duly authorized representative, the Employer shall be entitled to employ and pay other persons to carry out the same and all expenses consequent thereon or incidental thereto shall be borne by the Contractor and shall be recoverable from him by the Employer and may be deducted by the Employer from any monies due or which may become due to the Contractor.

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GCC Clause	Information
8.6	Insurances Add clause 8.6 35.9 Special Insurances The Contractor shall provide temporary lateral support insurance where the Employer considers that the execution of the works could cause the weakening of or interference with the support of land adjacent to the site and the consequences thereof.
5.13	Penalties Add clause 5.13 During the Contract Period should the Contractor: 5.13.1.1 Fail to comply with the specifications a) The Employer shall levy a penalty on the Contractor, should the latter fail to perform any ordered Works that complies at minimum with the specification as highlighted per the Scope of Work. b) The value of the penalty shall be determined cumulative as R5 000.00 per day per site, but not exceeding a total amount of R150,000.00. Should the penalty reach the maximum specified limit the Employer shall reserve the right to: 1) terminate the Contract; 2) perform the Works internally or through another Contractor; and 3) deduct additional costs incurred by the Employer from monies owed to the Contractor or from the Contractor's Guarantee. Additional costs incurred by the Employer shall include all claims from Contract affected parties, claims such as but not be limited to claims from customers, any costs associated with the loss of water, and all costs associated with the procurement of an alternative Contractor. No liability in terms of this clause shall be attached to the Contractor if he can prove to the satisfaction of the Employer that the nature of the failure is due to fire, war, riot, strikes, act of God, lockout, accident or other unforeseen occurrence or circumstances beyond the Contractor's control, provided, however, that in all cases the Contractor has notified the Employer in writing within 24 hours of it first coming to his notice, that delivery shall be delayed or become impossible for the above-mentioned reasons. 5.13.1.2 Fail to provide support, management and coordination a) The Employer shall levy a penalty on the Contractor, should the latter fail to provide the undertaken management, coordination and support. b) The value of the penalty shall be determined cumulative as R5,000.00 per day per site, but not exceeding a total amount of R150,000. Should the penalty reach the maximum specified limit the Employer shall reserve the right to: 1) terminate the Contract; 2) perform the Works internally or through another Contractor; and

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GCC Clause	Information
	3) deduct additional costs incurred by the Employer from monies owed to the Contractor or from the Contractor's Guarantee. Additional costs incurred by the Employer shall include all claims from Contract affected parties, claims such as but not be limited to claims from customers, any costs associated with the loss of water, and all costs associated with the procurement of an alternative Contractor. No liability in terms of this clause shall be attached to the Contractor if he can prove to the satisfaction of the Employer that the nature of the failure is due to fire, war, riot, strikes, act of God, lockout, accident or other unforeseen occurrence or circumstances beyond the Contractor's control, provided, however, that in all cases the Contractor has notified the Employer in writing within 24 hours of it first coming to his notice, that delivery shall be delayed or become impossible for the above-mentioned reasons. 5.13.1.3 Fail to complete a works The Employer shall levy a penalty on the Contractor, should they fail to execute the works within a 6 month period The value of the penalty shall be determined cumulative as R5,000.00 per day per site, but not exceeding a total amount of R150,000. Should the penalty reach the maximum specified limit the Employer shall reserve the right to: 1) terminate the Contract; 2) perform the Works internally or through another Contractor; and 3) deduct additional costs incurred by the Employer from monies owed to the Contractor or from the Contractor's Guarantee. Additional costs incurred by the Employer shall include all claims from Contract affected parties, claims such as but not be limited to claims from customers, any costs associated with the loss of water, and all costs associated with the procurement of an alternative Contractor. No liability in terms of this clause shall be attached to the Contractor if he can prove to the satisfaction of the Employer that the nature of the failure is due to fire, war, riot, strikes, act of God, lockout, accident or other unforeseen occurrence or circumstances beyond the Contractor's control, provided, however, that in all cases the Contractor has notified the Employer in writing within 24 hours of it first coming to his notice, that delivery shall be delayed or become impossible for the above-mentioned reasons. 5.13.1.4 Fail to pay SMME's and Labourers on time The Employer shall levy a penalty on the Contractor, should the latter fail to pay SMME's (subcontractors) or labourers on time as per their contract agreements. The value of the penalty shall be determined cumulative as R5000.00 per day late, but not exceeding a total amount of R150 000.00. Should the penalty reach the maximum specified limit the Employer shall reserve the right to: 1) terminate the Contract; 2) pay the SMME's or labourers through another Contractor; and 3) deduct additional costs incurred by the Employer from monies owed to the Contractor or from the Contractor's Guarantee. Additional costs incurred by the Employer shall include all claims from Contract affected parties. 5.13.1.5 Penalties irreversible

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Agreement and Contract Data

GCC Clause	Information
	The Contractor shall note that all penalties once imposed shall be non-recoverable or reversible, even if the default is remedied.
New	Add clause 11: 11 Confidential nature of documents All maps, drawings, photographs, mosaics, plans, reports, recommendations, estimates, documents and all other data compiled by or received by the Contractor under the Contract shall be the property of the Employer and Engineer, shall be treated as confidential and shall be delivered only to the Engineer or his duly authorized representative on completion of the Works; their contents shall not be made known by the Contractor to any person other than the personnel of the Contractor performing services under this Contract without the prior written consent of the Employer.
New	Add clause 12: 12 Officials not to benefit The Contractor warrants that no official of the Employer has been or shall be admitted by the Contractor to any direct or indirect benefit arising from this Contract or the award thereof. The Contractor agrees that breach of this provision is a breach of the Contract.
New	Add clause 13: 13 Prevention of corruption The Employer shall be entitled to cancel the Contract and to recover from the Contractor the amount of any loss resulting from such cancellation, if the Contractor has offered or given any person any gift or consideration of any kind as an inducement or reward for doing or intending to do any action in relation to the obtaining or the execution of the Contract or any other contract with the Employer or for showing or intending to show favour or disfavour to any person in relation to the Contract or any other contract with the Employer, if the like acts shall have been done by any persons employed by him or acting on his behalf whether with or without the knowledge of the Contractor in relation to this or any other Contract with the Employer.
New	Add clause 14: 14 False claims by the Contractor 14.1 Failure, by the Contractor, to demonstrate or present any feature declared during the procurement stage shall constitute grounds for Contract termination or the market related equivalent price discount, if no market related value is available, the Employer shall give a final ruling on the amount. This shall be at the discretion of the Employer based on the implication of such omission. Should the Contractor refuse to accept the Employer's price, the Contract shall be terminated. 14.2 Any false claims, by the Contractor or his staff (with or without his knowledge), based on Works to be performed or completed shall constitute grounds for Contract termination and result in blacklisting on the Employer's database. 14.3 The Contractor shall note that any of the above shall constitute non-performance on the part of the Contractor, further resulting in him forfeiting his full Contract Guarantee.

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GCC Clause	Information
New	Add clause 15: In terms of EPWP requirements, the Contractor is to ensure compliance with the following: • Provide a certified ID copy (13 digit) for each local labourer (Once off) • Provide a certified and legible contract of employment for each local labourer (Once off) • Provide proof of payment of wages (Monthly) • Provide log sheets / timesheets for each local labourer (Monthly) • Provide proof of UIF deduction & contributions (Monthly) • Provide proof of good standing with COIDA (Monthly) Should the contractor fail to comply with the EPWP requirements, the penalties stipulated above for failure to provide support, management and coordination will apply.
New	Add clause 16: In terms of subcontracting / SMME's requirements, the Contractor is to ensure compliance with the following: • Provide a contract agreement indicating the value of the appointment, scope of works and duration of the contract • Provide EPWP required documentation for the subcontractors / SMME's as per Clause 15 Should the contractor fail to comply with the subcontracting / SMME requirements, the penalties stipulated in Penalty clauses above failure to provide support, management and coordination will apply.

C1.2.1.2. Variations to the General Conditions of Contract

The following amendments of the General Conditions of Contract 2015 apply to this contract. The headings in these Special Conditions of Contract shall not be deemed to be part thereof nor be taken into consideration in the interpretation or construction thereof or of the Contract.

4. CONTRACTOR'S GENERAL OBLIGATIONS

4.3 LEGAL PROVISIONS

Add the following sub-sub clauses:

4.3.1.1 Mine Health and Safety Act, number 29 of 1996

The Employer shall obtain the Mining Authorisation for all sites where mining activities, as defined in the Mine Health and Safety Act, number 29 of 1996 as amended, are to be conducted.

4.3.1.2 Mineral Resources Petroleum Development Act, number 28 of 2002

The Contractor shall assume responsibility for the Environmental Management Programme (EMPR) in respect of the sites and shall ensure that the sites are rehabilitated at the conclusion of the contract."

4.4. SUBCONTRACTING

Add the following subclause:

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4.4.8 Convert the subcontract

If the contract shall have been cancelled in terms of clause 9.2, the Employer shall have the right, by written notice given to any Selected Subcontractor not later than 28 days after the said cancellation, to convert the subcontract concerned to a direct contract between the Employer and the Subcontractor.

Provided that:

- (a) the terms of the said direct contract shall mutatis mutandis be those of the subcontract concerned, and
- (b) the Employer shall have the said right, notwithstanding any breach of the subcontract by the Contractor, subject to his forthwith paying to the Subcontractor all amounts then owing to the Subcontractor by the Contractor and perform any obligation which the Contractor has failed to perform."

4.9 CONSTRUCTION EQUIPMENT

Add the following: sub clauses:

"4.9.2 Preclude seizure of construction equipment

In order to preclude seizure by the owner of any constructional plant being held by the Contractor on a hire or hire-purchase agreement for the purposes of the contract, the Employer shall be entitled to pay any such owner the amount of any outstanding instalment or other sum owing under any hire or hire-purchase agreement and in the event of his doing so, any amount thus paid by him shall be a debt payable to the Employer by the Contractor and may be deducted by the Employer from any moneys owing or that may become owing to the Contractor in terms of the contract, or be recovered at law from the Contractor by the Employer.

4.9.3 Constructional plant brought to the site by the subcontractor

When entering into any subcontract agreement for the execution of any part of the works, the Contractor shall incorporate in such subcontract agreement, by reference or otherwise, the provisions of this clause in respect of construction equipment brought to the site by the subcontractor."

5. TIME AND RELATED MATTERS

5.4 ACCESS TO THE SITE

Add the following subclause:

- 5.4.4 "If the site is insufficient for the needs and requirements of the work, the Contractor shall arrange with the owners or tenants for the additional land required and pay all rent and costs in connection therewith. The Contractor shall be responsible for all damage to such land and property, and he shall indemnify the Employer and hold him harmless in respect of all claims, demands proceedings, damages, costs, including attorneys and client costs, charges and expenses arising in respect thereof."

6. PAYMENT AND RELATED MATTERS

6.6 PROVISIONAL SUMS AND PRIME COST SUMS

6.6.1.2.1 In the first line after the word "sums" insert "excluding VAT"

6.6.1.2.2 In the fourth line after the word "amount" insert "excluding VAT"

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BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF
AGED WATER RETICULATION PIPELINES AND ASSOCIATED
INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS
AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Agreement and Contract Data

C1.2.2 PART 2: DATA PROVIDED BY THE CONTRACTOR

GCC Clause	Information
Clause 1.1.1.9	The name of the Contractor is
Clause 1.2.1.2	The address of the Contractor is: Physical Postal Tel: Fax: Email:
Clause 6.8.3	The variation in cost of special materials is Type Unit Rate <i>NOT APPLICABLE</i>

C1.2.3 CIDB Adjudicator's Appointment

This document provides the basis by which the parties to contract may appoint an adjudicator

CIDB Adjudicator's Appointment

(For use with the GCC 2025 contract)

This agreement is made on the Day of Between:

.....(Name of company / organisation)

Of

..... (Address) and

..... (Name of company / organisation)

Of

..... (Address)

(The Parties) and (Name of adjudicator)

Of

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..... (address)
 (the Adjudicator).

Disputes or differences may arise/have arisen* between the Parties under a Contract dated

and known as

and these disputes or differences shall be/have been* referred to adjudication in accordance with the CIDB Adjudication Procedure, (hereinafter called "the Procedure") and the Adjudicator may be or has been requested to act.

*Delete as necessary

IT IS NOW AGREED as follows:

The rights and obligations of the Adjudicator and the Parties shall be as set out in the Procedure.

The Adjudicator hereby accepts the appointment and agrees to conduct the adjudication in accordance with the Procedure.

The Parties bind themselves jointly and severally to pay the Adjudicator's fees and expenses in accordance with the Procedure as set out in the Contract Data.

The Parties and the Adjudicator shall at all times maintain the confidentiality of the adjudication and shall endeavour to ensure that anyone acting on their behalf or through them will do likewise, save with the consent of the other Parties which consent shall not be unreasonably refused.

The Adjudicator shall inform the Parties if he intends to destroy the documents, which have been sent to him in relation to the adjudication, and he shall retain documents for a further period at the request of either Party.

SIGNED by: SIGNED by: SIGNED by:

Name: Name: Name:

who warrants that he / she is duly authorised to sign for and on behalf of the first Party in the presence of
 who warrants that he / she is duly authorised to sign for and on behalf of the second Party in the presence of
 the Adjudicator in the presence of

Witness: Witness: Witness:

Name: Name: Name:

Address: Address: Address:

.....

.....

.....

Date: Date: Date:

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1	The Adjudicator shall be paid at the hourly rate as per ECSA guideline in respect of all time spent upon, or in connection with, the adjudication including time spent travelling.
2	The Adjudicator shall be reimbursed in respect of all disbursements properly made including, but not restricted to: (a) Printing, reproduction and purchase of documents, drawings, maps, records and photographs. (b) Telegrams, telex, faxes, and telephone calls. (c) Postage and similar delivery charges. (d) Travelling, hotel expenses and other similar disbursements. (e) Room charges. (f) Charges for legal or technical advice obtained in accordance with the Procedure.
3	The Adjudicator's fee shall be payable in equal amounts by each Party within 14 days of the appointment of the Adjudicator, subject to an Invoice being provided. This fee will be deducted from the final statement of any sums which shall become payable under item 1 and/or item 2 of the Contract Data. If the final statement is less than the appointment fee the balance shall be refunded to the Parties.
4	The Adjudicator is/is not* currently registered for VAT.
5	Where the Adjudicator is registered for VAT it shall be charged additionally in accordance with the rates current at the date of invoice.

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C1.3 FORMS AND SECURITIES

FORMS FOR COMPLETION BY THE CONTRACTOR

THE FOLLOWING FORMS ARE TO BE COMPLETED BY THE CONTRACTOR AFTER THE TENDER HAS BEEN AWARDED TO THE SUCCESSFUL TENDERER

- a) Form of Guarantee
- b) Agreement in terms of the Occupational Health and Safety Act
- c) Occupational Health and Safety Indemnity Undertaking

The forms will be completed by the Contractor who will be instructed to do so in the Form of Acceptance. The completed forms will become part of the Contract.

The Form of Guarantee is a pro forma document. The Contractor will provide an original document, from a financial institution, with the same text within the time stated in the Contract Data. Only a Bank or approved Insurance Company or Guarantee Corporation is acceptable as Guarantor.

C1.3.1 Form of Guarantee

TO BE PRINTED ON THE OFFICIAL LETTERHEAD OF THE GUARANTOR.

PERFORMANCE GUARANTEE

Contract No. 8/2/2/463 (7CE6CEPE) (2026-2029): BID FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE

WHEREAS Midvaal Local Municipality (hereinafter referred to as "the Employer" or "beneficiary") entered into a Contract with

_____ (hereinafter called "the Contactor")

on the _____ day of _____, 20____, for the construction of

at _____

AND WHEREAS it is provided by such Contract that the Contractor shall provide The Employer with security by way of a guarantee for the due and faithful fulfillment of such Contract by the Contractor;

AND WHEREAS _____ has/have at the request of the Contractor, agreed to give such guarantee; NOW THEREFORE WE, _____

_____ do hereby guarantee and bind ourselves jointly and severally as Guarantor and Co-principal Debtors to The Employer under renunciation of the benefits of division and exclusion for the due and faithful performance by the Contractor of all the terms and conditions of the said Contract, subject to the following conditions:

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1. The Employer shall, without reference and/or notice to us, have complete liberty of action to act in any manner authorized and/or contemplated by the terms of the said Contract, and/or to agree to any modifications, variations, alterations, directions or extensions of the completion date of the works under the said Contract, and that its rights under this guarantee shall in no way be prejudiced nor our liability hereunder be affected by reason of any steps which The Employer may take under such Contract, or of any modification, variation, alterations of the completion date which The Employer may make, give, concede or agree to under the said Contract.
2. This guarantee shall be limited to the payment of a sum of money.
3. The Employer shall be entitled, without reference to us, to release any guarantee held by it, and to give time to or compound or make any other arrangement with the Contractor.
4. This guarantee shall remain in full force and effect until the issue of the Certificate of Completion in terms of the Contract, unless we are advised in writing by The Employer before the issue of the said Certificate of his intention to institute claims, and the particulars thereof, in which event this guarantee shall remain in full force and effect until all such claims have been paid or liquidated.
5. Our total liability hereunder shall not exceed the Guaranteed Sum of _____ (R _____)
6. The Guarantor reserves the right to withdraw from this guarantee by depositing the Guaranteed Sum with the beneficiary, whereupon our liability hereunder shall cease.
7. We hereby choose our address for the serving of all notices for all purposes arising here from as _____

IN WITNESS WHEREOF this guarantee has been executed by us at _____
on this _____ day of _____ 20_____.

As witnesses:

1. _____ Signature _____
2. _____ Signature _____

Duly authorized to sign on behalf of _____

Address _____

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C1.3.2 Health and Safety Contract Between Employer and Contractor In Terms of Section 37(2) Of the Occupational Health and Safety Act No 85 Of 1993

Written agreement between Midvaal Local Municipality (hereinafter referred to as “the

Employer) and _____ (hereinafter referred to as “the mandatory”) as envisaged by Section 37(2) of the Occupational Health and Safety Act, No. 85, of 1993 as amended.

I _____ representing _____ (mandatory) do hereby acknowledge that _____ (mandatory) is an employer in its own right and shall be regarded as the employer for purposes of the contract work specified in the body of the principal agreement with duties as prescribed in the Occupational Health and Safety Act, No. 85 of 1993 as amended so as to ensure that all work will be performed or machinery and plant used in accordance with the provisions of the said Act. I furthermore agree to comply with the requirements of the Employer as contained in the Occupational Health and Safety Specification included with the principal agreement and to liaise with the employer should I, for whatever reason, be unable to perform in terms of this agreement.

Signed this _____ day of _____ at _____

Signature on behalf of mandatory _____

Signature on behalf of Employer _____

Compensation Fund Registration No. of mandatory _____

Good Standing Certificate : ☐ yes ☐ no (tick one box)

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C1.3.3 Health and Safety Contract: General Information

1. The Occupational Health and Safety Act comprises Sections 1 to 50 and all un-repealed regulations promulgated in terms of the former Machinery and Occupational Safety Act No 6 of 1983 as amended, as well as other regulations which may be promulgated in terms of the OHS Act.
2. 'Mandatory' is defined as including an agent, a contractor or a subcontractor for work, but without derogating from his status in his own right as an employer or user of plant and machinery
3. Section 37 of the Occupational Health and Safety Act potentially punishes employers (principals) for the unlawful acts or omissions of mandatories (contractors) save where a written agreement between the parties has been concluded containing arrangements and procedures to ensure compliance with the said Act by the mandatory.
4. All documents attached or referred to in the above agreement form an integral part of the agreement.
5. To perform in terms of this agreement mandatories must be familiar with the relevant provisions of the Act.
6. Mandatories who utilise the services of their own mandatories (subcontractors) are advised to conclude a similar written agreement.
7. Be advised that this agreement places the onus on the mandatory to contact the Employer in the event of inability to perform as per this agreement. The Employer, however, reserves the right to unilaterally take any steps as may be necessary to enforce this agreement.
8. The contractor shall be responsible for the full and proper implementation of the terms and provisions of the Act and its regulations in the area in which the work is to be undertaken by the Contractor.
9. The Contractor shall be responsible for the well-being, in relation to health and safety, of all persons coming upon or into such area in accordance with that legislation, including the implementation of any directives issued by management of the Employer in this respect.
10. The work to be done is _____
11. The area in which the work is to be conducted is _____
12. The Contractor shall familiarise himself with such area and all risks existing thereon and undertakes to report to the representative of the Employer any hazard or risk to health and safety which arises during the contract work in the area concerned and over which the Contractor may have no control. All necessary and appropriate safety / health equipment shall be issued by the Contractor to all persons working on or coming into the area.

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C1.3.3.1 Occupational Health and Safety Indemnity Undertaking

I, the undersigned

in my capacity as

of the firm

1.0 hereby undertake to ensure that I/my firm and/or employees and/or subcontractors and/or his employees -

1.1 comply strictly with the provisions of the Occupational Health and Safety Act of 1993 (as amended) and/or the regulations promulgated in terms thereof, with specific reference to section 37(2) of the said act, as well as any relevant legislation, in the course of the performance/execution of any service and/or work in, to or on any of the Employer's buildings, construction sites and/or premises;

1.2 ensure that consultants and/or visitors comply with any instructions and measures relating to occupational health and safety, as prescribed by the Employer; and

1.3 comply strictly with the statutorily prescribed work systems, operational equipment, machinery and occupational health and safety conditions;

2.0 and as an independent employer and contractor, hereby indemnify, in terms of the above undertakings, the Employer -

2.1 in respect of any costs that I/my firm and/or employees and/or subcontractors and their employees may incur of necessity in compliance with the above undertakings; and

2.2 against any claims that may be instituted against the Employer and/or any liability that the Employer may incur, whether instituted and/or caused by me/my firm's employees, agents, consultants, subcontractors and/or their employees and visitors or the Employer's clients or neighbours in respect of any incidents related to my/my firm's activities and as a result of which the occupational health and safety of the persons involved have been detrimentally affected; and

2.3 against similar claims that I, managers or directors of my firm may have against the Employer and any damages for which I, managers or directors of my firm hold the Employer liable.

3.0 My firm's compensation commissioner number is _____ and I confirm that my firm and its subcontractors' fees have been paid up and obligations in respect of the compensation commissioner have been complied with and further that I shall furnish proof thereof in writing on request.

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4.0 I hereby confirm that I have the authority to sign this indemnity undertaking and that the Employer is not obliged to confirm such confirmation.

Signed at _____ this _____ day
of _____

Signature

Capacity

As witnesses:

1 _____

2 _____

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C2 PRICING DATA

C2.1 PRICING INSTRUCTIONS

C2.1.1 GENERAL PREAMBLE TO THE BILL OF QUANTITIES

- All items in the Schedule of Rates, except where otherwise specified in Clause 8 of a Standardised Specification or in the Project Specification, shall be measured and shall cover operations as recommended in the standard system of measurement of civil engineering quantities, published under the title "Civil Engineering Quantities", by the South African Institution of Civil Engineering.
- The basis and principles of measurement and payment are described in this section (Pricing Instructions) and Clause 8 of each of the Standardised Specifications for Civil Engineering Construction. The applicable SANS 1200 Standardised Specifications are listed in the Scope of Work, Portion 1: Project Specification. Variations and amendments to the Standardised Specifications are contained in the Scope of Work, Portion 2: Variations and Additions to the Standardised Specifications.
- Descriptions in the Schedule of Rates are abbreviated and comply generally with those in the Standardised Specifications. Clause 8 of each Standardised Specification, read together with the relevant clauses of the Scope of Work, set out what ancillary or associated activities are included in the rates for the operations specified. Should any requirements of the measurement and payment clause of the applicable Standardised Specification or the Scope of Work, conflict with the terms of the Schedule of Rates, the requirements of the Standardised Specification or Scope of Work, as applicable, shall prevail.
- The clauses in a specification in which further information regarding the Schedule item may be found are listed in the "Payment Refers" column in the Schedule. The reference clauses indicated are not necessarily the only sources of information in respect of listed items. Further information and specifications may be found elsewhere in the Contract Documents. Standardised Specifications are identified by the letter or letters which follow SANS in the SANS 1200 series of specifications, e.g. G for SANS 1200G.
- Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for waste.
- The quantities set out in the Schedule of Rates are the estimated quantities of the Contract Works, but the Contractor shall be required to undertake whatever quantities may be directed by the Engineer from time to time. The Contract Price for the completed Works shall be computed from the actual quantities of work done, valued at the relevant unit rates and/or prices.
- The rates and/or prices to be inserted in the Schedule of Rates are to be the full inclusive prices for the work described under the several items. Such rates and/or prices shall cover all costs and expenses that may be required in and for the execution of the work described, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the documents, as well as overhead charges and profit. Reasonable charges shall be inserted as these shall be used as a basis for assessment of payment for additional work that may have to be carried out.
- A price or rate is to be entered against each item in the Schedule of Rates, whether the quantities are stated or not. An item against which no price is entered will be considered to be covered by the other prices or rates in the Schedule.

The tenderer shall fill in rates for all items where the words, "rate only" appear in the "Amount" column.

- The units of measurement described in the Schedule of Rates are metric units. Alternatives used are as follows :

mm	=	millimetre	h	=	hour
m	=	metre	kg	=	kilogram
km	=	kilometre	t	=	ton (1000kg)
m ²	=	square metre	No.	=	number
m ² pass	=	square metre pass	sum	=	lump sum
ha	=	hectare	MN	=	meganewton
m ³	=	cubic metre	MN.m	=	meganewtom-metre
m ³ km	=	cubic metre-kilometre	P Csum	=	Prime Cost sum
l	=	litre	Prov sum	=	Provisional sum

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kl = kilolitre % = percent

- j) For the purpose of this Schedule of Rates, where applicable, the following words shall have the meanings hereby assigned to them:
- Unit : The unit of measurement for each item of work as defined in the COLTO Standard Specification for Road and Bridge Works for State Authorities (1998 edition).
- Quantity : The number of units of work for each item.
- Rate : The agreed payment per unit of measurement.
- Amount : The product of the quantity and the agreed rate for an item.
- Lump sum : An agreed amount for an item, the extent of which is described in the Bills of Quantities but the quantity of work of which is not measured in any units.
- k) Arithmetical errors in the Schedule of Rates shall be corrected in accordance with Clause F3.9 of the Conditions of Tender. Should there be any discrepancy between rates and/or prices written in the Assessment Schedule and the Schedule of Rates, the latter shall govern.
- l)
- m) The Schedule of Rates shall be completed by hand in **BLACK PEN INK**.

C2.1.2 Sufficiency of tender

The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his Tender for the construction of the Works and of the rates and prices, which rates and prices shall, except in so far as it is otherwise provided in the Contract, cover all his obligations under the Contract and all matters and things necessary for the proper execution and completion of the Works.

C2.1.3 Special payment conditions

This clause shall be read in conjunction with the 'Penalties' clause(s). Where the penalty clause shall always receive precedence over this clause, should it be found that duplicative financial corrective measures exist.

C2.1.3.1 Applicability of payment items

All payment items forming part of this Contract shall not apply to ordered Works completed by the Contractor under this Contract, where completed Works:

- were not completed to acceptable quality;
- were not issued by the Employer's Agent;
- are still within the defects and liability period; or
- were not accepted by the Engineer or his duly authorised representative.

C2.1.3.2 Provided previously

The Contractor shall **NOT RE-EXECUTE WORKS** under this Contract where he had executed works for the Employer under a previous contract(s).

The Employer shall at his sole discretion decide to re-execute such works.

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C2.1.3.4 Materials and equipment

C2.1.3.4.1 Materials

The Employer shall not provide any materials, as this shall be provided by the Contractor and deemed to have been included in the various provided activity rates and prices.

C2.1.3.4.2 Equipment

The Employer shall not provide any works equipment, as this shall be provided by the Contractor and deemed to have been included in the various provided activity rates and prices.

C2.1.3.4.3 Damage to materials provided by the Employer

Where the Contractor or public damage any materials, provided by the Employer, whilst in the care of the Contractor, he shall immediately report such damage, arrange for the replacement and all replacement costs shall be at his expense.

C2.1.3.5 Permits and way-leaves

All associated costs to obtain permits and way-leaves as required for the execution of the works, where such affect other services, shall be deemed to have been included in the scheduled rates for SANS 1200A or SANS 1200AA or SANS 1200AB where pricing provision for such items have been allowed for in the pricing schedules, alternatively it shall be deemed to be included the various scheduled activity rates or prices provided by the Contractor.

C2.1.3.6 Locating existing service

The cost to locate existing services shall be included in the various works activity pricing rates and/or prices, including any excavations required and the provision and use of service detection personnel and equipment.

C2.1.3.7 Confined space

The Contractor shall note that work activities shall be executed within confined spaces and it shall be deemed that allowance has been made in all provided activity pricing rates and/or prices.

C2.1.3.8 Concrete

Descriptions (prices) of concrete work shall be deemed to include the design of concrete mixes and all testing of concrete and materials other than compressive strength testing of concrete samples from concrete being placed in the works (the Contractor shall only be entitled to payment for those samples and compressive strength tests called for by the Engineer or his duly authorized representative and which pass the test requirements), handling and depositing (by hoisting or lowering) concrete in the forms, working and packing concrete around reinforcement, all "construction joints" other than "designated joints" as defined in SANS 1200G which are given separately, shaping tops of components as required and striking off and curing.

Descriptions (prices) of concrete in surface beds cast in panels shall be deemed to include formwork, fillets and the like in forming the panels.

C2.1.3.9 Smooth formwork

Descriptions (prices) shall be deemed to include for rubbing off all projections at seams etc. after removal of the formwork, making good any defects with 2:1 cement mortar and leaving a smooth surface with all arises slightly rounded, all to the satisfaction of the Engineer or his duly authorized representative.

C2.1.3.10 Reinforcement

Descriptions (prices) for all steel reinforcement to concrete shall be deemed to include cutting and waste, bending, hooked ends, binding at lappings and intersections with annealed wire, all as above described, hoisting or lowering and maintaining in position whilst the concrete is being deposited and cover blocks and spacers in accordance with the relevant SANS Codes of Practice.

Descriptions (prices) of standard fabric reinforcement as included in Table 1 of SANS 1024 shall be deemed to include 300mm wide laps.

The mass of binding wire is not included in the mass of the reinforcement and the cost thereof shall be deemed to be included in the prices for the reinforcement.

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C2.1.3.11 Testing

The cost of testing of the ordered Works shall be included the various applicable Works items. In particular those:

- clearly intended by or provided for in the specifications.
- involving testing or tests to ensure that the design of the whole of the Works or any part of the Works is appropriate for the purpose which it was intended to fulfil.

No additional or separate payment for testing shall be entertained by the Employer.

C2.1.3.12 Cost of samples

All samples shall be supplied by the Contractor at his own cost unless the supply thereof is clearly intended in the specifications or Bill of Quantities to be at the cost of the Employer. Payment shall not be made for samples which do not comply with the specifications.

C2.1.3.13 Assessment of hydrants and/or fittings

The cost of assessing a hydrant and/or fitting(s) not forming part of the ordered Works, whilst executing ordered work shall be included the various Works items. No additional or separate payment for this assessment shall be entertained by the Employer.

C2.1.3.14 Payment ONLY for works completed

The Contractor shall note that payment shall only be made for Works activities successfully (delivering the end result) executed, complying with the quality requirements and provided to the Engineer or his duly authorized representative.

C2.1.3.15 Payment for the Labour-Intensive Component of the Works

Those parts of the works to be constructed using labour-intensive methods are marked in the bill of quantities with the letters LI either in a separate column or as a prefix or suffix against every item so designated. The works, or parts of the works so designated are to be constructed using labour-intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the scope of work, is a deviation from the contract. The items marked with the letters LI are not necessarily an exhaustive list of all the activities which must be done by hand and this clause does not over-ride any of the requirements in the generic labour-intensive specification in the Scope of Works.

Where minimum labour intensity is specified in the design, the contractor is expected to use their initiative to identify additional activities that can be done labour-intensively in order to comply with the set minimum labour intensity targets.

Payment for items which are designated to be constructed labour-intensively (either in this schedule or in the Scope of Works) will not be made unless they are constructed using labour-intensive methods. Any unauthorised use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.

C2.1.3.16 Linkage of Payment for Labour-Intensive Component of Works to Submission of Project Data

The Contractor's payment invoices shall be accompanied by labour information for the corresponding period in a format specified by the employer. If the contractor chooses to delay submitting payment invoices, labour returns shall still be submitted as per frequency and timeframes stipulated by the Employer. The contractor's invoices shall not be paid until all pending labour information has been submitted.

The following information shall be maintained on site and submitted in electronic/hard copy formats:

- Certified ID copies of all locally employed labour
- Signed Contracts between the employer and the EPWP Participants
- Attendance Registers for the EPWP Participants
- Proof of Payment of EPWP Employees
- Monthly Reporting Template as per EPWP requirements

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Pricing Data

C2.1.4 Contractual Requirements

Unit: %

The contractor shall be limited to a percentage of the works order value in order to compensate for the Preliminary and General items in terms of fixed and time related expenses. The percentage shall cover all site establishment and de-establishment requirements, health and safety compliance and environmental completion, supervision and office overheads in terms of SABS1200 8.3.1 and 8.4.1.

C2.1.5 Additional fittings and specials provision and installation

Unit: P.Sum

On the Engineer's instruction, the Contractor shall be required to provide a quotation for the complete provision of additional fittings and specials not allowed for elsewhere in this document as part of this Contract, based on the minimum specification provided elsewhere in this Contract documentation. A provisional sum is provided here, but the unit of measurement shall be based on the various items required.

C2.1.6 Removal and Temporary Storage

C2.1.6.1 Remove and temporarily store paving block units

Unit: m²

The rate shall include the complete (labour, material, plant, equipment and travelling) cost for the removal, transportation and delivery to the storage area of all removed paving block units of various sizes.

The Engineer or his duly authorised representative shall only approve payment for ordered Works, where the Contractor provides proof that the removed paving block units have been stored in the agreed location.

Where the Contractor fails to return any removed paving block units, on completion of the ordered Works, he shall not be paid for the entire ordered Works at the associated property.

C2.1.6.2 Remove and temporarily store grass sods

Unit: m²

The rate shall include the complete (labour, material, plant, equipment and travelling) cost for the removal, transportation and delivery to the storage area of all removed grass sods.

The Engineer or his duly authorised representative shall only approve payment for ordered Works, where the Contractor provides proof that the removed grass sods have been stored in the agreed location.

Where the Contractor fails to return any removed grass sods, on completion of the ordered Works, he shall not be paid for the entire ordered Works at the associated property.

C2.1.6.3 Remove and temporarily store all types of kerbs

Unit: m²

The rate shall include the complete (labour, material, plant, equipment and travelling) cost for the removal, transportation and delivery to the storage area of all types of kerbs.

The Engineer or his duly authorised representative shall only approve payment for ordered Works, where the Contractor provides proof that the removed kerbs have been stored in the agreed location.

Where the Contractor fails to return any removed kerbs, on completion of the ordered Works, he shall not be paid for the entire ordered Works at the associated property.

C2.1.6.3.1 Shore trench opposite structure or service

Unit: m

The rate shall include the complete (labour, qualified operators, material, plant, equipment and travelling) cost of shoring the trenches opposite structures or services as required during construction including commissioning, environmental management, health and safety, and submitting a record of installations to the Engineer.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Pricing Data

C2.1.6.4 Removal of Existing Fire Hydrants and Related Fittings, and Transport to Depot

Unit: No

The work shall entail the complete removal of existing above-ground fire hydrants and all associated fittings (including standpipes, flanges, bolts, nuts, and ancillary connections) from the existing live water reticulation network. The Contractor shall take all necessary precautions to ensure safe working conditions and to avoid damage to the surrounding pipework and network components during removal.

All hydrants and fittings removed shall be carefully handled, loaded, and transported to the designated municipal depot or other storage location as instructed by the Engineer. Proper records shall be kept of the number and type of hydrants removed, and proof of delivery to the depot must be provided to the Engineer for approval of payment.

The rate for this item shall include all labour, tools, plant, equipment, transport, safety measures, and incidental costs necessary to complete the work in accordance with the Engineer's instructions.

C2.1.7 Reinstatement of road crossings, including the supply and installation of asphalt for reinstatement of road crossings, 300mm thick

Unit: m²

The rate shall include the complete (labour, qualified operators, material, plant, equipment and travelling) cost of reinstatement of road crossings including commissioning, environmental management, health and safety, and submitting a record of installations to the Engineer. The rate should also include the complete supply and transportation costs of the asphalt.

C2.1.8 Reinstatements

C2.1.8.1 Reinstale paving block units, complete

Unit: m²

The rate shall include the complete (labour, qualified operators, material, plant, equipment and travelling) cost of reinstatement of paving block units including commissioning, environmental management, health and safety, and submitting a record of installations to the Engineer. The rate should also include the complete supply and transportation costs of the paving block units.

C2.1.8.2 Reinstale paving grass sods, complete

Unit: m²

The rate shall include the complete (labour, qualified operators, material, plant, equipment and travelling) cost of reinstatement of grass sods including commissioning, environmental management, health and safety, and submitting a record of installations to the Engineer. The rate should also include the complete supply and transportation costs of the grass sods.

C2.1.8.3 Reinstale all types of kerbing, complete

Unit: m

The rate shall include the complete (labour, qualified operators, material, plant, equipment and travelling) cost of reinstatement of all types of kerbing including commissioning, environmental management, health and safety, and submitting a record of installations to the Engineer. The rate should also include the complete supply and transportation costs of the kerbing.

C2.1.8.4 Top soiling including trimming, filling, top soiling and levelling of verges, removal of debris, rocks etc. using stockpiled material

Unit: m²

The rate shall include the complete (labour, qualified operators, material, plant, equipment and transport) cost of top soiling including trimming, filling, top soiling and levelling of verges, removal of debris, rocks etc. using stockpiled material.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Pricing Data

C2.1.9 Miscellaneous Items

Unit: Various

The rates shall include the complete (labour, qualified operators, material, plant, equipment and travelling) cost of supplying and installing various items in terms of the specifications including, environmental management and health and safety requirements.

C2.1.10 Removing Debris

Unit: No.

The rate shall include the complete (labour, material and equipment) cost for the removal and disposal of all debris from manholes and chambers of various sizes and shapes for a distance of 0.5m within the entering and existing conduit; Including materials for cleaning and disposal, safety equipment (including that required for the Engineer or his duly authorised representative's sole use) and traffic accommodation equipment.

C2.1.11 Relocation of existing fittings

Unit: No

The rate shall include the complete (labour, qualified operators, material, plant, equipment and travelling) cost of the relocation of existing fittings as required during construction including cutting, threading, jointing (including new washers and gaskets at the joints), testing (including testing in terms SANS 1200LF of sub-clause 7.3.2), commissioning, environmental management, health and safety, and submitting a record of installations to the Engineer for various listed sizes and fitting types.

C2.1.12 Anchor/thrust blocks and pedestals

Unit: No.

The rate shall include the complete (labour, qualified operators, material, plant, equipment and travelling) cost for supply and installations of pedestals, anchors/thrust blocks as per standard drawings.

C2.1.13 Supply and Installation of hydrants and Specials

Unit: No.

The rate shall cover the cost of supplying, handling and installing a hydrant and specials, including labour, transportation, cutting, jointing, testing (including testing in terms SANS 10105-2 for inspection schedules and procedural test requirements, Supported by SANS 1128-1 for equipment performance criteria), commissioning, environmental management, health and safety, and submitting a record of installations to the Engineer.

The Employer will not entertain any claims regarding standing time, if shut-downs with the relevant Midvaal Local Municipality officials have not been arranged timeously in order to facilitate installation of valves and specials. If materials fail to meet specifications it will be for the contractor's expense to rectify.

Unit: No.

C2.1.16 Connecting to Existing pipes

Unit: No

The rate shall include the complete (labour, qualified operators, material, plant, equipment and travelling) cost of exposing the existing water main at the connection, isolating the appropriate section of pipe, cutting into the existing pipe, repairs to the lining and any coating of the pipe (when applicable), and dewatering. The rate shall cover a range of pipe diameters (50mm to 250mm).

The Employer will not entertain any claims regarding standing time, if shut-downs with the relevant Midvaal Local Municipality officials have not been arranged timeously in order to facilitate tie-ins.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO. 8/2/2/463 PAGE (132)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Schedule of Rates

C2.2 SCHEDULE OF RATES

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SIGNED ON BEHALD OF BIDDER :

DATE :

CONTRACT NO.: BID 8/2/2463(2026-2029)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 1

SANS 1200 A - PRELIMINARY AND GENERAL

ITEM No.	PAYMENT REFERS	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R C
	SANS 1200 A	CONTRACTORS ESTABLISHMENT AND PRELIMINARY AND GENERAL				
	8,3	<u>Fixed-charge and value related item</u>				
A1	PSA 8.3.1	Contractual requirements for the provision of all sureties, Insurance of the works and Plant, Third Party Liability Insurance, Unemployment Insurance and, Political riot insurance any other statutory requirements	Sum	1,00		
A2	8.3.2	Establishment of Facilities on Site (Only on the written instruction of the Engineer)				
	8.3.2.2	<u>Facilities for the Contractor</u> All facilities as scheduled in Clause 8.3.2.2 of SANS 1200A				
A8		(a) Offices and storage sheds	Sum	1,00		
A9		(b) Workshops	Sum	1,00		
A10		(c) Laboratories	Sum	1,00		
A12		(e) Ablution and toilet facilities	Sum	1,00		
A13		(f) Tools and equipment	Sum	1,00		
A14		(g) Water supplies, electric power and communications	Sum	1,00		
A15		(h) Dealing with water (see 5.8)	Sum	1,00		
A16		(i) Access (see 5.8)	Sum	1,00		
A17		(j) Plant	Sum	1,00		
A18	PSA 8.3.2.2(c)	(k) PPE for Contractors staff, suppliers, subcontractors and visitors	Sum	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 1

SABS 1200A - PRELIMINARY AND GENERAL

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
A19	PSA 8.3.3	Other fixed-charge obligations	Sum	1,00		
A20	8.3.4	Removal of Site Establishment (On Instruction by Engineer)	Sum	1,00		
A21	PSA 8.3.5	Provision of a Safety Plan in terms of OHS Act and Safety Regulations	Sum	1,00		
	8,4	<u>Scheduled Time-related items</u>				
A22	PSA 8.4.1	Contractual requirements	Sum	1,00		
	8.4.2	Operation and maintenance of facilities for the duration of construction				
A41	PSA 8.4.6	Compliance with approved Safety Plan and Occupational Health and Safety Act Construction Regulations	Month	1,00		
A42	PSA 8.4.7	Compliance with Record of Decision issued by GDARD	Month	12,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: BID 8/2/2463(2026-2029)

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SCHEDULE 1

SABS 1200A - PRELIMINARY AND GENERAL

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	PSA 8.5	<u>SUMS STATED PROVISIONALLY BY CONTRACTOR</u>				
	PSA 8.5.1	Control Testing requested by the Employer				
A43		(i) Provisional Sum		1,00	Sum	10 000,00
A44		(ii) Contractors mark-up on (A) 43 above	%	10 000,00		
A45		Pipe and Manufacturing Inspection		Provisional	Sum	10 000,00
A46		Contractors Mark-up on A45 above	%	10 000,00		
A47		Pipe Site Inspection		Provisional	Sum	10 000,00
A48		Contractors Mark-up on A47 above	%	10 000,00		
A51	PSA 8.5.2	Hire of land for Contractors Camp Site				
A52		(i) Leasing land for campsite, plant etc.	Month	1,00		
	PSA 8.5.2 (a)	Works executed by Nominated Subcontractors				
		(a) Work to be executed by a Nominated Subcontractor.		Provisional	Sum	10 000,00
		(b) Overheads, charges and profit on item (a) above.	%	10 000,00		
A53	8.5.3	CLO's				
		Payment for CLO				
A54		(i) Remuneration of CLO (based on R3650/month incl. traveling allowance)	Month	1,00		
A55		(ii) Cell phone allowance (R150 airtime per month)	Month	1,00		
A56		(iii) Contractors mark-up on items (i) and (ii) above for Contractor's overheads, liaison, making payments and supplying office space and associated facilities within his establishment	%			
	PSA 8.5.4	Training				
A57		(a) Safety rep training per person	No.	1,0		
		(b) Project specific technical skills training per person	No.	1,0		
		(c) Generic and management skills training per person	No.	1,0		
		(d) Training venue per training	No.	1,0		
		(e) Remuneration of workers undergoing skills training per person	No.	1,0		
A58	8.5.5	Security Guards				
A59		Provide Security guard (armed response) for duration of the construction works after hours, and on instruction by the Engineer	Month	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 1

SABS 1200A - PRELIMINARY AND GENERAL

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
A60		TEMPORARY WORKS Provide and maintain access roads and adjacent streets including reinstatement of roads on completion of Works (or accommodation of traffic) Existing services				
A61		Excavate by hand in soft material to expose existing services	m³	1,00		
A62		Temporarily protection of existing services		Provisional	Sum	10 000,00
A63		Contractor's mark-up on A62 above	%	10 000,00		
A64		Cast insitu class 20/19 concrete for encasing of existing services	m³	1,00		
A65		Welded steel reinforcing mesh (Ref 395)	m²	1,00		
A66		Relocation of existing services		Provisional	Sum	10 000,00
A67		Contractor's mark-up on A66 above	%	10 000,00		
A68		POLITICAL UNREST SITUATIONS Allow for all costs which might arise due to the interruption of works and/or standing time in times of political unrest on site (rate to allow for transport of equipment and material)				
A69	PSA 8.6	Dayworks Note: Executed on Instruction of the Engineer Only	Days	1,00		
A70	8.6.1	Labour				
A71		(i) Un-skilled	hr	1,00		
A72		(ii) Semi-skilled	hr	1,00		
A73		(iii) Skilled (artisan - welder plumber etc.)	hr	1,00		
A74		(iv) Engineer	hr	1,00		
A75		(v) Technician	hr	1,00		
A76		(vi) Foreman	hr	1,00		
A77		(vii) Driver (LDV, machine, trucks, etc.)	hr	1,00		
A78		(viii) Certified Blaster	hr	1,00		
A79		(ix) Steelfixer	hr	1,00		
A80		(x) Concretor	hr	1,00		
A81		(xi) Chargehand	hr	1,00		
A82		(xii) Security guard	hr	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 1

SABS 1200A - PRELIMINARY AND GENERAL

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	8.6.2	Plant and equipment				
		(a) Tractor loader backhoe (TLB)				
A83		(i) Tractor Loader Backhoe (Bigger than 45kW but smaller than 70kW)	hr	1,00		
		(b) Crawler Excavators				
A84		(i) Smaller than 93kW (small)	hr	1,00		
A85		(ii) Bigger than 93kW but smaller than 200kW (Medium)	hr	1,00		
A86		(iii) Bigger than 200kW but smaller than 400kW (Large)	hr	1,00		
		(c) Tipper Trucks				
A87		(i) Tipper trucks (3m³) Small	hr	1,00		
A88		(ii) Tipper trucks (5m³) Medium	hr	1,00		
A89		(iii) Tipper trucks (10m³) Large	hr	1,00		
		(d) Flat Bed Trucks				
A90		(i) Flat bed 5t capacity	hr	1,00		
A91		(ii) Flat bed 7t capacity	hr	1,00		
		(e) LDV				
A92		(i) 1t Pick-up	hr	1,00		
A93		(f) Mobile Crane 5t at 3m radius	hr	1,00		
		(g) Walk behind vibrating rollers				
A94		(i) Model - Bomag 60 or similar (small)	hr	1,00		
A95		(ii) Model - Bomag 76 or similar (medium)	hr	1,00		
A96		(iii) Model - Bomag 90 or similar	hr	1,00		
		(h) Plate compactors				
A97		(i) Vipac or similar	hr	1,00		
		(i) Rammers				
A98		(i) Model - Wacker or similar	hr	1,00		
		(j) Concrete mixers				
A99		(i) Volume 100 litre wet (small, towable)	hr	1,00		
A100		(ii) Volume 175 litre wet (medium)	hr	1,00		
A101		(iii) Volume 250 litre wet (large)	hr	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: BID 8/2/2463(2026-2029)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 1

SABS 1200A - PRELIMINARY AND GENERAL

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
		(k) Diesel compressors including hoses and tools				
A102		(i) Capacity smaller than 200 cfm (small)	hr	1,00		
A103		(ii) Capacity bigger than 200 cfm smaller than 400 cfm (medium)	hr	1,00		
A104		(iii) Capacity bigger than 400 cfm (large)	hr	1,00		
		(l) Waterpump				
A105		(i) Capacity smaller than 400 litre/min (medium)	hr	1,00		
A106		(ii) Capacity bigger than 400 but smaller than 600 litre/min (medium)	hr	1,00		
A107		(iii) Capacity bigger than 600 but smaller then 1 100 litre/sec (large)	hr	1,00		
		(m) Low-bed				
A108		(i) Low-bed (suitable for the largest piece of equipment above)	hr	1,00		
A109		(n) Grader (Cat 140 G or similar)	hr	1,00		
A110		(o) Poker vibrator	hr	1,00		
		(p) Water tankers				
A111		(i) Capacity 500 litre (small, towable)	hr	1,00		
A112		(ii) Capacity 8 000 litre (medium)	hr	1,00		
A113		(iii) Capacity 15 000 litre (large)	hr	1,00		
A114		Material to be used during execution of day works		Provisional	Sum	10 000,00
A115		Percentage adjustment to materials and plant not included in Daywork Schedule to cover contractor's expenses with regard to these items	%	10 000,00		
A116	PSA 8.9	Compliance with OHS Act and Regulations	Sum	1,00		
A116 (a)		OHS Safety Officer (Full Time)	Month	1,00		
A117	PSA 8.10	Quality Assurance Management Plan	Sum	1,00		
A118	PSA 8.11	Compliance with the environmental Management Plan	Sum	1,00		
A116 (a)		Environmental Control Officer (Full Time)	Month	1,00		
CARRIED FORWARD TO SUMMARY						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 2

SABS 1200C - SITE CLEARANCE

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C	SABS 1200C	SECTION C: SITE CLEARANCE				
	PSC 8.2.1	Clear and Grub Areas for chambers, structures, etc	m ²	1,00		
C1						
C2		Pipeline route 3m wide	m	4 500,00		
	8.2.2	Remove and grub large trees and tree stumps with girth between:				
C3	8.2.2	(a) Over 0.1m and up to and indicating 1.0m (stumps)	No.	1,00		
C4	8.2.2	(b) Over 0.1m and up to and indicating 2.0m (stumps)	No.	1,00		
C5	8.2.2	(c) Over 0.1m and up to and indicating 3.0m (stumps)	No.	1,00		
	8.2.7	Dismantle and remove pipelines, electricity transmission cables, cables etc. return salvaged material to Municipal stores				
	8.2.7.1	Pipelines regardless of type:				
C6		(a) 50mm Ø up to and including 300mm	m	1,00		
C7		(b) 300mm Ø up to and including 500mm	m	1,00		
C8		(c) 500mm Ø up to and including 750mm	m	1,00		
C9		(d) 750mm Ø up to and including 1 000mm	m	1,00		
C10		(e) 1 000mm Ø up to and including 1500mm	m	1,00		
	8.2.7.2	Cables (incl sleeves) :				
C11		(a) 16mm Ø up to and including 30mm	m	1,00		
C12		(b) 30mm Ø and larger	m	1,00		
	8.2.7.3	Valves complete with all fittings, specials, couplings and fasteners				
C13		(i) Isolation valves	No.	1,00		
C14		(ii) Control Valves	No.	1,00		
C15		(iii) Scour Valves	No.	1,00		
C16		(iv) Air Valves	No.	1,00		
C17		(v) Fire hydrant valves	No.	1,00		
	PSC8.2.8	Demolish and remove structures/buildings and dismantle steelwork, including all necessary appurtenances:				
TOTAL CARRIED FORWARD						

CONTRACT NO.: BID 8/2/2463(2026-2029)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 2

SABS 1200C - SITE CLEARANCE

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
C18		(a) Hawker shed regardless of type and size	m²	1,00		
C19		(b) Brick structures regardless of type and size including floors & foundations	m²	1,00		
		(c) Brickwork Manholes Complete (depth 0-2m) with Longest inside dimension:				
C20		(i) 0m < Ø < 1.5m	No.	1,00		
C21		(ii) 1.5m < Ø < 2.5m	No.	1,00		
C22		(iii) > 2.5m	No.	1,00		
		(d) Circular Precast Concrete Manholes (depth 0-2m)				
		Chamber Sections complete with step irons in sections 250 or 500 or 1000 lengths				
C23		(i) ND 750mm	No.	1,00		
C24		(ii) ND 1 000mm	No.	1,00		
C25		(iii) ND 1 250mm	No.	1,00		
C26		(iv) ND 1 500mm	No.	1,00		
		Reducer Slabs (Reduce to 750 Ø) (0 - 2m depth)				
C27		(i) ND 1 000mm	No.	1,00		
C28		(ii) ND 1 250mm	No.	1,00		
C29		(iii) ND 1 500mm	No.	1,00		
		Concrete Lid - remove:				
C30		(i) ND 560mm heavy duty	No.	1,00		
C31		Base regardless of type, size and thickness.(0 - 2m depth)	No.	1,00		
		(e) Concrete slab: 0mm up to 350mm thick regardless of type, reinforcement or position				
C32		(i) 0m < Ø < 1.5m	No.	1,00		
C33		(ii) 1.5m < Ø < 2.5m	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: BID 8/2/2463(2026-2029)

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SCHEDULE 2

SABS 1200C - SITE CLEARANCE

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
C34		(iii) 2.5m < Ø < 3.5m	No.	1,00		
C35		(f) Break out manhole frame & lid regardless of type, size or arrangement	No.	1,00		
C36		(g) Manhole step irons (0 - 2m depth)	No.	1,00		
		(h) Cast Iron (C.I.) Lid - remove:				
C37		(i) Circular Road manholes (550mm Ø) with C.I. Lid	No.	1,00		
C38		(ii) Circular Road manholes (650mm Ø) with C.I. Lid	No.	1,00		
C39		(iii) Circular Road manholes > 650mm Ø, max. 1m	No.	1,00		
C40		(i) Concrete benching regardless of thickness (0 - 2m depth)	m²	1,00		
		Extra-over item PSC8.2.8(c,d,e,g,i) Manholes for deep excavations				
C41		(i) Depth 2m up to and including 3m	m³	1,00		
C42		(ii) Depth 3m up to and including 4m	m³	1,00		
C43		(iii) Depth 4m and deeper	m³	1,00		
C44		(j) Segmented paving (Stack neatly for reinstatement measured separately)	m²	1,00		
C45	8.2.9	Transport materials and debris to an unspecified site and dump (All haulage = freehaul)	m³	1,00		
C46	PSC8.2.10	Remove topsoil to a nominal depth of 150mm and stockpile	m³	1,00		
C44	PSC8.2.11	(j) Take down and re-erect existing fences	m	1,00		
CARRIED FORWARD TO SUMMARY						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

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SCHEDULE 3

SABS 1200D - EARTHWORKS

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
DA	SABS 1200D	SECTION D: EARTHWORKS				
	PSD 8.3.2	<u>Bulk excavation</u>				
		(a) Excavate in all materials and use for embankment or backfill as ordered				
D1		(i) Necessary excavations	m³	1,00		
		(ii) Designated borrow pits	m³	1,00		
		(iii) c) Commercial sources	m³	1,00		
	PSD	Restricted excavation: Excavate for chambers, restricted foundations, etc in all materials, and use for backfill or embankment, or dispose:				
D1.1		(i) Depth up to 2,0 m	m³	1,00		
D1.2		(ii) Depth over 2,0 m and up to 4,0 m	m³	1,00		
D3		Excavate for gabion boxes or mattresses in all materials, and use for backfill or embankment, or dispose	m³	1,00		
		Extra over items D1 and D3 above for:				
D4		(i) Intermediate excavation	m³	1,00		
D5		(ii) Hard rock excavation	m³	1,00		
D6		(iii) Boulder excavation, class A	m³	1,00		
D7		(iv) Boulder excavation, class B	m³	1,00		
D8		Extra over item D1 and D2 for hand excavation	m³	1,00		
D9	8.3.5	Extra excavation in all materials to provide working space around structure	m³	1,00		
	PSD 8.3.8	Existing services: Hand excavation for locating and exposing existing services:				
D10		(i) In roadways	m³	1,00		
D11		(ii) In all other areas	m³	1,00		
D12	PSD	Topsoiling	m³	1,00		
D13	8.3.11	Grassing or other vegetation cover:				
D13		Planting of grass cuttings	m²	1,00		
D14		Hydroseeding	m²	1,00		
D15	PSD 8.3.14	Extra over item D1 and D2 for temporary stockpiling	m³	1,00		
D16	PSD 8.3.15	Extra over item D1 and D2 for disposing of spoil material on a site provided by the Contractor	m³	1,00		
CARRIED FORWARD TO SUMMARY						

CONTRACT NO.: **BID 8/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 4

SABS 1200 DA, DB, PSDA & PSDB - EARTHWORKS (PIPE TRENCH)

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		SECTION 4 : EARTHWORKS (PIPE TRENCH)				
DB1	SANS 1200 DA, DB, PSDA, PSDB	Excavation				
	8.3.2(a)	Excavation in all materials for trenches 1,2m deep, backfill and compact, and dispose of surplus material for water mains				
DB2		800 mm wide	m	1,00		
DB3	8.3.2(a) PSLF 4	Excavate in all materials for trenches 1,1m deep, backfill, compact and dispose of surplus material for erf connections (gravel road crossings)	m	1,00		
DB4	8.3.2(b)	Excavate in all materials for trenches 0.5m deep, backfill, compact and dispose of surplus material for erf connections inside stands for communication pipes	m	1,00		
	PSDB 8.3.2(c)	Excavate in all materials, backfill and compact to 90% mod AASHTO density, and dispose of surplus and unsuitable materials at spoil site arranged by the contractor, Over 1m and up to 2m wide				
DB6		Pipes over and up to:				
DB7		(i) Over 0 m up to 2,0 m	m	1,00		
DB8		(ii) Over 2.0 m up to 3.0 m	m	1,00		
DB9		(iii) Over 3.0 m up to 4.0 m	m	1,00		
		(iii) Over 4.0 m up to 5.0 m	m	1,00		
	8.3.2(b)	Extra over item D01 for:				
DB10		Intermediate excavation (Provisional)	m ³	1,00		
DB11		Hard rock excavation (Provisional)	m ³	1,00		
DB12		Boulder excavation, Class A)	m ³	1,00		
DB13		Boulder excavation, Class B	m ³	1,00		
	8.3.3	Excavation Ancillaries				
	8.3.3.1	Make up deficiency in backfill material				
DB14	8.3.3.1(a)	From other necessary excavations	m ³	1,00		
DB15	8.3.3.1(b)	By importation from designated borrow pit	m ³	1,00		
DB16	8.3.3.1(c)	By importation from commercial or off-site sources selected by the Contractor	m ³	1,00		
DB17	8.3.3.2	Opening up and closing down of designated borrow pit	Sum	1,00		
DB18	PSDB 8	Extra over item DB4 for cement stabilization of backfill under roads	m ³	1,00		
DB19	PSDB 11	Remove and store block or brick paving	m ²	1,00		
DB20	PSDB 12	Cutting of existing concrete paving	m	1,00		
DB21	PSDB 13	Breaking out of existing concrete paving and dispose	m ²	1,00		
DB22	8.3.3.3	Compaction in road reserves	m ³	1,00		
	8.3.4	Overhaul				
DB23	8.3.3 (a)	Limited overhaul (provisional)	m ³	1,00		
DB24	8.3.3 (b)	Long overhaul (provisional)	m ³ .km	1,00		
DB25	PSDA 3	Excavate by hand	m ³	1,00		
	8.3.4	Particular items				
DB26		a) Shore trench opposite structure	m	1,00		
	8.3.5	EXISTING SERVICES				
DB27	8.3.5.1	Services that intersect a trench including exposing by hand excavation	No	1,00		
TOTAL CARRIED FORWARD						

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SCHEDULE 4

SABS 1200 DA, DB, PSDA & PSDB - EARTHWORKS (PIPE TRENCH)

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
DB28	8.3.5.2	Services that adjoin a trench	m	1,00		
	8.3.6	FINISHING				
	8.3.6.1	Reinstate road surfaces complete with all courses				
DB29		a) Gravel roads	m ²	1,00		
DB30		b) 25mm Asphalt	m ²	1,00		
DB31		c) Double seal	m ²	1,00		
DB32		d) Cement stabilization (2%) of backfill under roads	m ³	1,00		
	PSDA 3					
	8.3.4	Particular items				
DB33		a) Shore trench opposite structure	m	1,00		
		Temporary Works: Control water inflow in various pipelines:				
		(a) For new tie-in connections to existing pipelines and relocation of pipes (liase with authority and close valves):				
DB34		(i) 100 mm dia to 500mm dia uPVC pipe	Prov. Sum	1,00	10 000,00	10 000,00
DB35		(ii) 500 mm dia to 1000mm dia uPVC pipe	Prov. Sum	1,00	10 000,00	10 000,00
DB36		(iii) 1000 mm dia to 1500mm dia uPVC pipe	Prov. Sum	1,00	10 000,00	10 000,00
DB37		(iv) 1500 mm dia to 2000mm dia uPVC pipe	Prov. Sum	1,00	10 000,00	10 000,00
DB38		(v) 2000 mm dia to 3000mm dia uPVC pipe	Prov. Sum	1,00	10 000,00	10 000,00
DB39		(vi) Percentage markup on item (i) to (v) above for handling, transportation and installation	%	50 000		
	PSDB 14	Reinstate paving with stored paving				
DB40		a) Half clay brick	m ²	1,00		-
DB41		b) Full clay brick	m ²	1,00		-
DB42		c) Interlocking concrete block paving	m ²	1,00		
	PSDB 16	Reinstate concrete (Class 20 Mpa) paving up to 100mm thick				
DB43		a) Wood float finish	m ²	1,00		
DB44		b) Steel float finish	m ²	1,00		
DB45		c) Imprint finish (any pattern)	m ²	1,00		
DB46	PSDB 16	Extra over 3.13 for colouring concrete paving to original colour	m ²	1,00		
	PSDB 15	Extra over item 3.12 for supplying paving only where original paving blocks has broken				
DB47		a) Clay bricks	m ³	1,00		
		b) Interlocking concrete bricks				
DB48		(i) 60mm thick	m ³	1,00		
DB49		(ii) 80mm thick	m ³	1,00		
DB50	PSDB 17	Reinstate green grass to the required standard	m ²	1,00		
TOTAL CARRIED FORWARD						

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FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 4

SANS 1200 DA, DB, PSDA & PSDB - EARTHWORKS (PIPE TRENCH)

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	SANS 1200	Provision of bedding material from trench excavation				
	LB					
DB50	8.2.1	a) Selected granular material	m³	1,00		
DB51		b) Selected fill material	m³	1,00		
		Provision of bedding material from commercial sources				
DB52		a) Selected granular material	m³	1,00		
DB53		b) Selected fill material	m³	1,00		
DB54		c) Crushed stone	m³	1,00		
CARRIED FORWARD TO SUMMARY						

CONTRACT NO.: BID 8/2/2463(2026-2029)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 5

SANS 1200 DK - GABIONS AND PITCHING

ITEM NO.	REFERENCE	DESCRIPTION	UNIT	QUANT	RATE R C	AMOUNT R C
DK	SABS 1200DK	GABIONS				
DK 1	8.2.1(a)	Surface preparation for bedding of gabions and mattresses	m ²	1,00		
DK 2	8.2.2	Supply and install 2m long x 1m wide x 1m height, with 80 x 100 Mesh type and 3,0mm ø wire, galvanised to SANS 675 Class A, Gabions, filled with stone as per SABS 1200DK	m ³	1,00		
DK 3	8.2.2	Supply and install 2m long x 1m wide x 0,3m height, with 80 x 100 mesh type and 2,5mm dia. Wire, galvanised to SANS 675 Class A, Reno Mattresses filled with stone as per SABS 1200DK	m ³			
DK 4	8.2.4	Geotextile Supply and installation of U24 geotextile between the face contact of gabions or mattresses and fill material	m ²	1,00		
		Pitching				
		Grouted Pitching for:	m ²	1,00		
		Stormwater V-Drain	m ²	1,00		
DK 5	8.2.5	Pitching	m ²	1,00		
DK 6	8.2.6	Backing for Pitching	m ²	1,00		
DK 7	8.2.7	Weepholes	No	1,00		
CARRIED FORWARD TO SUMMARY						

CONTRACT NO.: BID 8/2/2463(2026-2029)

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SCHEDULE 6

SANS 1200 GA - CONCRETE (Small Works)

ITEM NO.	REFERENCE	DESCRIPTION	UNIT	QUANT	RATE R C	AMOUNT R C
GA	SABS 1200GA	CONCRETE : SMALL WORKS				
	8.2.2	<u>Formwork</u>				
GA1		Rough	m²	1,00		
GA2		Normal	m²	1,00		
GA3		Special	m²	1,00		
	8.2.4	<u>REINFORCEMENT</u>				
	(a)	<u>Mild Steel Bars</u>				
GA4		i) 10mm	t	1,00		
		<u>High - tensile steel bars</u>				
GA5		(i) 10mm	t	1,00		
GA6		(ii) 12mm	t	1,00		
	8.2.5	<u>CONCRETE</u>				
GA7	(a)	Blinding layer in 15Mpa concrete up to a thickness of 75mm	m²	1,00		
GA8	(b)	Strength concrete : 25 Mpa/19mm to:				
GA9		Floor slabs	m³	1,00		
GA10		Walls	m³	1,00		
GA11		Roof Slabs	m³	1,00		
	8.1.4.1	<u>Pipeline</u> <u>Pipe Encasement</u>				
GS12		25MPa concrete bedding and encasing to all diameter of pipes, including shuttering and blinding. Excavation, stramps and reinforcing elsewhere	m³	1,00		
GA13		20MPa concrete bedding and encasing to all diameter of pipes, including shuttering and blinding. Excavation, stramps and reinforcing elsewhere	m³	1,00		
GA14	8.4.3	<u>Mass Concrete</u> 15MPa concrete to thrust blocks and the like, including shuttering. Excavation measured elsewhere.	m³	1,00		
CARRIED FORWARD TO SUMMARY						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

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SCHEDULE 7

SANS 1200G - REINFORCED CONCRETE

ITEM NO.	REFERENCE	DESCRIPTION	UNIT	QUANT	RATE R C	AMOUNT R C
G	SABS 1200G 8,2	REINFORCED CONCRETE				
		<u>FORM WORK</u>				
G1	8,1	<u>Rough Formwork</u> To sides of wall foundations not exceeding 400mm high	m²	1,00		
	8.2.2	<u>Smooth Formwork</u>				
G2		To soffit of roof slab	m²	1,00		
G3		External faces of walls	m²	1,00		
G4		Internal faces of walls	m²	1,00		
G5		External faces of roof slab	m²	1,00		
G6	8.2.5	<u>Narrow widths up to 300mm wide in:</u> Sides of access manholes	m²	1,00		
	8.2.4	Box out openings in walls and allow for casting in once positioning is complete.				
		For pipes:				
G7		700mm dia steel pipe	No	1,00		
G8		600mm dia steel pipe	No	1,00		
G9		500mm dia steel pipe	No	1,00		
G10		450mm dia steel pipe	No	1,00		
G11		400mm dia steel pipe	No	1,00		
G12		350mm dia steel pipe	No	1,00		
G13		300mm dia steel pipe	No	1,00		
G14		250mm dia steel pipe	No	1,00		
G15		200mm dia steel pipe	No	1,00		
G16		150mm dia steel pipe	No	1,00		
G17		100mm dia steel pipe	No	1,00		
	8,3	<u>REINFORCEMENT</u>				
	8.3.1	<u>Mild Steel Bars</u>				
G18		a) 10mm <u>High - tensile steel bars</u>	t	1,00		
G19		10mm	t	1,00		
G20		12mm	t	1,00		
G21		16mm	t	1,00		
G22		20mm	t	1,00		
	8,4	<u>CONCRETE</u>				
G22	8.4.2	Blinding layer in 15Mpa concrete up to a thickness of 75mm	m²	1,00		
G23	8.4.3	Strength concrete : 25 Mpa/19mm to:				
G24		Floor slabs	m³	1,00		
G25		Walls	m³	1,00		
G26		Roof Slabs	m³	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: BID 8/2/2463(2026-2029)

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SCHEDULE 7

SANS 1200G - REINFORCED CONCRETE

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
		<u>Strength Concrete : 30MPa/19mm to:</u>				
		Floors slabs	m³	1,00		
		Walls	m³	1,00		
		Roof slabs	m³	1,00		
G27		<u>Manhole Cover and Frame</u>				
		Supply and cast in concrete roof slab, manhole cover and frame complete with locking device as per attached drawings AC 345/19/SD12	No	1,00		
G28		<u>Ventilators on roof slabs</u>				
		Supply and cast in concrete roof slab inlet and outlet ventilator as indicated as per attached drawings AC345/19/SD01	No	1,00		
G29		<u>Access Ladders</u>				
		Supply and install submerged GMS to Class A ladder or similar fixed to chamber walls as per attached drawings AC345/19/SD16	No	1,00		
CARRIED FORWARD TO SUMMARY						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

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SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
L	SABS 1200L	SECTION L: MEDIUM - PRESSURE PIPELINES				
	8.2.1	Supply, lay and bed pipes complete with couplings and fittings				
	8.2.1.a	uPVC spigot and socket pipe with integral socket and locked-in rubber ring seal				
		uPVC Class 12 with nominal size of:				
L1		(i) 75mm	m	1,00		
L2		(ii) 110mm	m	1,00		
L3		(iii) 125mm	m	1,00		
L4		(iv) 140mm	m	1,00		
L5		(v) 160mm	m	1,00		
L6		(vi) 200mm	m	1,00		
L7		(vii) 250mm	m	1,00		
L8		(viii) 315mm	m	1,00		
L9		(ix) 355mm	m	1,00		
L10		(x) 400mm	m	1,00		
L11		(xi) 450mm	m	1,00		
L12		(xii) 500mm	m	1,00		
		uPVC Class 16 with nominal size of:				
L13		(i) 110mm	m	1,00		
L14		(ii) 125mm	m	1,00		
L15		(iii) 140mm	m	1,00		
L16		(iv) 160mm	m	1,00		
L17		(v) 200mm	m	1,00		
L18		(vi) 250mm	m	1,00		
L19		(vii) 315mm	m	1,00		
L20		(viii) 355mm	m	1,00		
L21		(ix) 400mm	m	1,00		
L22		(x) 450mm	m	1,00		
L23		(xi) 500mm	m	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	8.2.1.b	Class 12.50 HDPE Pipe PE 100 to be Butt-Welded with Nominal Size:				
L24		(i) 75mm	m	1,00		
L25		(ii) 110mm	m	1,00		
L26		(iii) 160mm	m	1,00		
L26		(iv) 180mm	m	1,00		
L27		(v) 200mm	m	1,00		
L28		(vi) 225mm	m	1,00		
L29		(vii) 250mm	m	1,00		
L30		(viii) 280mm	m	1,00		
L31		(ix) 315mm	m	1,00		
L32		(x) 355mm	m	1,00		
L33		(xi) 400mm	m	1,00		
L34		(xii) 450mm	m	1,00		
L35		(xiii) 500mm	m	1,00		
L36		(xiii) 560mm	m	1,00		
L34		(xii) 630mm	m	1,00		
L35		(xiii) 710mm	m	1,00		
L36		(xiii) 800mm	m	1,00		
	8.2.1.b	Class 16 HDPE Pipe PE 100 to be Butt-Welded with Nominal Size:				
L37		(i) 75mm	m	1,00		
L38		(ii) 110mm	m	1,00		
L39		(iii) 160mm	m	1,00		
L40		(iv) 180mm	m	1,00		
L41		(v) 200mm	m	1,00		
L42		(vi) 225mm	m	1,00		
L43		(vii) 250mm	m	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2463(2026-2029)**

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SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
BROUGHT FORWARD							
L44	8.2.4.a	(viii) 280mm	m	1,00			
L45		(ix) 315mm	m	1,00			
L46		(x) 355mm	m	1,00			
L47		(xi) 400mm	m	1,00			
L48		(xii) 450mm	m	1,00			
L49		(xiii) 500mm	m	1,00			
L50		(xiii) 560mm	m	1,00			
L51		(xii) 630mm	m	1,00			
L52		(xiii) 710mm	m	1,00			
L53		(xiii) 800mm	m	1,00			
		Steel Flanges complete to SABS 1123:1977 with all fasteners, gaskets and appurtenances. (Painted as above for corrosion protection). (1600/3)					
L54		DN 80mm	No.	1,00			
L55		DN 100mm	No.	1,00			
L56		DN 125mm	No.	1,00			
L57		DN 150mm	No.	1,00			
L58		DN 200mm	No.	1,00			
L59		DN 250mm	No.	1,00			
L60		DN 300mm	No.	1,00			
L61		DN 350mm	No.	1,00			
L62		DN 400mm	No.	1,00			
L63		DN 450mm	No.	1,00			
L64		DN 500mm	No.	1,00			
L65		DN 600mm	No.	1,00			
L66		DN 80mm Blank flange	No.	1,00			
L67		DN 100mm Blank flange	No.	1,00			
L68		DN 125mm Blank flange	No.	1,00			
L69		DN 150mm Blank flange	No.	1,00			
L70		DN 200mm Blank flange	No.	1,00			
L71		DN 250mm Blank flange	No.	1,00			
L72		DN 300mm Blank flange	No.	1,00			
L73		DN 350mm Blank flange	No.	1,00			
L74		DN 400mm Blank flange	No.	1,00			
TOTAL CARRIED FORWARD							

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L75		DN 450mm Blank flange	No.	1,00		
L76		DN 500mm Blank flange	No.	1,00		
L77		DN 600mm Blank flange	No.	1,00		
		Extra-over item 8.2.4a for other types and sizes of flanges				
L78		(i) Provisional sum		Provisional	10 000,00	10 000,00
L79		(ii) Percentage markup on item (i) above for handling, transportation and installation	%	10 000,00		
	8.2.4b	Viking Johnson Type ('MaxiFit') Flange Adaptors: PN16 to SANS 1123 (1600/3) to fit pipe, step pipe and adapt to different types of material (VJ 'MaxiFit') or similar approved				
L80		DN 80mm	No.	1,00		
L81		DN 100mm	No.	1,00		
L82		DN 125mm	No.	1,00		
L83		DN 150mm	No.	1,00		
L84		DN 200mm	No.	1,00		
L85		DN 250mm	No.	1,00		
L86		DN 300mm	No.	1,00		
L87		DN 350mm	No.	1,00		
L88		DN 400mm	No.	1,00		
L89		DN 450mm	No.	1,00		
L90		DN 500mm	No.	1,00		
L91		DN 600mm	No.	1,00		
L92		DN 80mm Restrained	No.	1,00		
L93		DN 100mm Restrained	No.	1,00		
L94		DN 125mm Restrained	No.	1,00		
L95		DN 150mm Restrained	No.	1,00		
L96		DN 200mm Restrained	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L97		DN 250mm Restrained	No.	1,00		
L98		DN 300mm Restrained	No.	1,00		
L99		DN 350mm Restrained	No.	1,00		
L100		DN 400mm Restrained	No.	1,00		
L101		DN 450mm Restrained	No.	1,00		
L102		DN 500mm Restrained	No.	1,00		
L103		DN 600mm Restrained	No.	1,00		
		Extra-over item 8.2.4b for other types and sizes of flange adaptors				
L104		(i) Provisional sum		Provisional	Sum	10 000,00
L105		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
	8.2.4c	Hydrant Tee: C.I. Flanged to SANS 1123 (1600/3), complete with all fasteners, gaskets & appurtenances				
L106		ND 80mm	No.	1,00		
L107		ND 110mm	No.	1,00		
L108		ND 160mm	No.	1,00		
L109		ND 200mm	No.	1,00		
L110		ND 250mm	No.	1,00		
L111		ND 315mm	No.	1,00		
L112		ND 355mm	No.	1,00		
L113		ND 400mm	No.	1,00		
L114		ND 450mm	No.	1,00		
		Extra-over item 8.2.4c for other types and sizes of hydrant tees				
L115		(i) Provisional sum		Provisional	Sum	10 000,00
L116		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	8.2.4d	Scour Tee: C.I. Flanged to SABS 1123 (1600/3), complete with all fasteners, gaskets & appurtenances				
L117		ND 80mm	No.	1,00		
L118		ND 110mm	No.	1,00		
L119		ND 160mm	No.	1,00		
L120		ND 200mm	No.	1,00		
L121		ND 250mm	No.	1,00		
L122		ND 315mm	No.	1,00		
L123		ND 355mm	No.	1,00		
L124		ND 400mm	No.	1,00		
L125		ND 450mm	No.	1,00		
L126		ND 500mm	No.	1,00		
L127		ND 550mm	No.	1,00		
L128		ND 600mm	No.	1,00		
L129		ND 700mm	No.	1,00		
		Extra-over item 8.2.4d for other types and sizes of scour tees				
L130		(i) Provisional sum		Provisional	Sum	10 000,00
L131		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
	8.2.4e	Equal Tee: C.I. Flanged to SABS 1123 (1600/3) complete with all fasteners, gaskets & appurtenances				
L132		DN 80mm	No.	1,00		
L133		DN 100mm	No.	1,00		
L134		DN 125mm	No.	1,00		
L135		DN 150mm	No.	1,00		
L136		DN 200mm	No.	1,00		
L137		DN 250mm	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L138		DN 300mm	No.	1,00		
L139		DN 350mm	No.	1,00		
L140		DN 400mm	No.	1,00		
		Equal Tee: Spigot and socket complete with all appurtenances				
L141		DN 80mm	No.	1,00		
L142		DN 100mm	No.	1,00		
L143		DN 125mm	No.	1,00		
L144		DN 150mm	No.	1,00		
L145		DN 200mm	No.	1,00		
L146		DN 250mm	No.	1,00		
L147		DN 300mm	No.	1,00		
L148		DN 350mm	No.	1,00		
L149		DN 400mm	No.	1,00		
L150		ND 450mm	No.	1,00		
		Extra-over item 8.2.4e for other types and sizes of equal tees				
L151		(i) Provisional sum		Provisional	Sum	10 000,00
L152		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
	8.2.4f	Reducing Tee: C.I Spigot and socket (PN16) complete with all appurtenances with ND:				
L153		125mm x 110mm	No.	1,00		
L154		140mm x 110mm	No.	1,00		
L155		140mm x 125mm	No.	1,00		
L156		160mm x 110mm	No.	1,00		
L157		160mm x 125mm	No.	1,00		
L158		160mm x 140mm	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L160		200mm x 110mm	No.	1,00		
L161		200mm x 125mm	No.	1,00		
L162		200mm x 140mm	No.	1,00		
L163		200mm x 160mm	No.	1,00		
L164		250mm x 110mm	No.	1,00		
L165		250mm x 125mm	No.	1,00		
L166		250mm x 140mm	No.	1,00		
L167		250mm x 160mm	No.	1,00		
L168		250mm x 200mm	No.	1,00		
		Reducing Tee: C.I. Flanged to SANS 1123 (1600/3) complete with all fasteners, gaskets & appurtenances with ND:				
L169		125mm x 110mm	No.	1,00		
L170		140mm x 110mm	No.	1,00		
L171		140mm x 125mm	No.	1,00		
L172		160mm x 110mm	No.	1,00		
L173		160mm x 125mm	No.	1,00		
L174		160mm x 140mm	No.	1,00		
L175		200mm x 110mm	No.	1,00		
L176		200mm x 125mm	No.	1,00		
L177		200mm x 140mm	No.	1,00		
L178		200mm x 160mm	No.	1,00		
L179		250mm x 110mm	No.	1,00		
L180		250mm x 125mm	No.	1,00		
L181		250mm x 140mm	No.	1,00		
L182		250mm x 160mm	No.	1,00		
L183		250mm x 200mm	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: BID 8/2/2463(2026-2029)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
		Extra-over item 8.2.4f for other types and sizes of reducing tees				
L184		(i) Provisional sum		Provisional	Sum	10 000,00
L185		(ii) Percentage markup on item (i) above for handling, transportation and installation	%	10 000,00		
	8.2.4g	Reducers: C.I. Spigot and socket (PN16) complete with all appurtenances with ND:				
L186		125mm x 110mm	No.	1,00		
L187		140mm x 110mm	No.	1,00		
L188		140mm x 125mm	No.	1,00		
L189		160mm x 110mm	No.	1,00		
L190		160mm x 125mm	No.	1,00		
L191		160mm x 140mm	No.	1,00		
L192		200mm x 110mm	No.	1,00		
L193		200mm x 125mm	No.	1,00		
L194		200mm x 140mm	No.	1,00		
L195		200mm x 160mm	No.	1,00		
L196		250mm x 110mm	No.	1,00		
L197		250mm x 125mm	No.	1,00		
L198		250mm x 140mm	No.	1,00		
L199		250mm x 160mm	No.	1,00		
L200		250mm x 200mm	No.	1,00		
L201		315mm x 250mm	No.	1,00		
L203		Reducers: C.I. Flanged to SANS 1123 (1600/3) complete with all fasteners, gaskets & appurtenances with ND:				
L204		125mm x 110mm	No.	1,00		
L205		140mm x 110mm	No.	1,00		
L206		140mm x 125mm	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L207		160mm x 110mm	No.	1,00		
L208		160mm x 125mm	No.	1,00		
L209		160mm x 140mm	No.	1,00		
L210		200mm x 110mm	No.	1,00		
L211		200mm x 125mm	No.	1,00		
L212		200mm x 140mm	No.	1,00		
L213		200mm x 160mm	No.	1,00		
L214		250mm x 110mm	No.	1,00		
L215		250mm x 125mm	No.	1,00		
L216		250mm x 140mm	No.	1,00		
L217		250mm x 160mm	No.	1,00		
L218		250mm x 200mm	No.	1,00		
L219		700mm x 600mm	No.	1,00		
L220		250mm x 200mm	No.	1,00		
		Extra-over item 8.2.4g for other types and sizes of reducers				
L221		(i) Provisional sum		Provisional	Sum	10 000,00
L222		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
	8.2.4h	Flange adaptors: C.I flange drilled to SANS 1123 (1600/3) with nominal size:				
L223		(i) 80mm	No.	1,00		
L224		(ii) 110mm	No.	1,00		
L225		(iii) 125mm	No.	1,00		
L226		(iv) 140mm	No.	1,00		
L227		(v) 160mm	No.	1,00		
L228		(vi) 200mm	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	8.2.4h	Flange adaptors: C.I flange drilled to SANS 1123 (1600/3) with nominal size:				
L229		(i) 250mm	No.	1,00		
L230		(ii) 300mm	No.	1,00		
L231		(iii) 350mm	No.	1,00		
L232		(iv) 400mm	No.	1,00		
		Extra-over item 8.2.4h for other types and sizes of flange adaptors				
L233		(i) Provisional sum		Provisional	Sum	10 000,00
L234		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
	8.2.4i	Bends - uPVC class 16				
		(a) 90° Bend with OD:				
L235		(i) 80mm	No.	1,00		
	8.2.4i	Bends - uPVC class 16				
		(a) 90° Bend with OD:				
L236		(i) 110mm	No.	1,00		
L237		(ii) 125mm	No.	1,00		
L238		(iii) 140mm	No.	1,00		
L239		(iv) 160mm	No.	1,00		
L240		(v) 200mm	No.	1,00		
L241		(vi) 250mm	No.	1,00		
L242		(vii) 315mm	No.	1,00		
		(b) 45° Bend with OD:				
L243		(i) 80mm	No.	1,00		
L244		(ii) 110mm	No.	1,00		
L245		(iii) 125mm	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L246		(iv) 140mm	No.	1,00		
L247		(v) 160mm	No.	1,00		
L248		(vi) 200mm	No.	1,00		
L249		(vii) 315mm	No.	1,00		
		(c) 22.5° Bend with OD:				
L250		(i) 80mm	No.	1,00		
L251		(ii) 110mm	No.	1,00		
L252		(iii) 125mm	No.	1,00		
L253		(iv) 140mm	No.	1,00		
L254		(v) 180mm	No.	1,00		
L255		(vi) 200mm	No.	1,00		
L256		(vii) 315mm	No.	1,00		
		(d) 11.25° Bend with OD:				
L257		(i) 80mm	No.	1,00		
L258		(ii) 110mm	No.	1,00		
L259		(iii) 125mm	No.	1,00		
L260		(iv) 140mm	No.	1,00		
L261		(v) 160mm	No.	1,00		
L262		(vi) 250mm	No.	1,00		
L263		(vii) 315mm	No.	1,00		
		Extra-over item 8.2.4i for other types and sizes of bends				
L264		(i) Provisional Sum		Provisional	Sum	10 000,00
L265		(ii) Copntractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	8.2.4j	Bends - Steel (drilled to SANS 1123 Table 1600/3, both ends flanged)				
		(a) 90° Bend with ND:				
L266		(i) 80mm	No.	1,00		
L267		(ii) 110mm	No.	1,00		
L268		(iii) 125mm	No.	1,00		
L269		(iv) 140mm	No.	1,00		
L270		(v) 160mm	No.	1,00		
L271		(vi) 200mm	No.	1,00		
L272		(vii) 250mm	No.	1,00		
L273		(viii) 315mm	No.	1,00		
L274		(ix) 355mm	No.	1,00		
L275		(x) 400mm	No.	4,00		
L276		(xi) 450mm	No.	1,00		
		(b) 45° Bend with ND:				
L267		(i) 80mm	No.	1,00		
L268		(ii) 110mm	No.	1,00		
L269		(iii) 125mm	No.	1,00		
L270		(iv) 140mm	No.	1,00		
L271		(v) 160mm	No.	1,00		
L272		(vi) 200mm	No.	1,00		
L273		(vii) 250mm	No.	1,00		
L274		(viii) 315mm	No.	1,00		
L275		(ix) 355mm	No.	1,00		
L276		(x) 400mm	No.	1,00		
L277		(xi) 450mm	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
		(c) 22.5° Bend with ND:				
L278		(i) 80mm	No.	1,00		
L279		(ii) 110mm	No.	1,00		
L280		(iii) 125mm	No.	1,00		
L281		(iv) 140mm	No.	1,00		
L282		(v) 160mm	No.	1,00		
L283		(vi) 200mm	No.	1,00		
L284		(vii) 250mm	No.	1,00		
L285		(viii) 315mm	No.	1,00		
L286		(ix) 355mm	No.	1,00		
L287		(x) 400mm	No.	1,00		
		(d) 11.25° Bend with ND:				
L288		(i) 80mm	No.	1,00		
L289		(ii) 110mm	No.	1,00		
L290		(iii) 125mm	No.	1,00		
L291		(iv) 140mm	No.	1,00		
L292		(v) 160mm	No.	1,00		
L293		(vi) 200mm	No.	1,00		
L294		(vii) 250mm	No.	1,00		
L295		(viii) 315mm	No.	1,00		
L296		(ix) 355mm	No.	1,00		
L297		(x) 400mm	No.	1,00		
L298		(xi) 450mm	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**
 BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS
 FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	8.2.4K	Bends - Steel (drilled to SANS 1123 Table 2500/3, both ends flanged)				
L299		(a) 90 Bend with ND: (ii) 80mm	No.	1,00		
L300		(iii) 150mm	No.	1,00		
L301		(iv) 200mm	No.	1,00		
L302		(v) 250mm	No.	1,00		
L303		(vi) 300mm	No.	1,00		
L304		(vii) 350mm	No.	1,00		
L305		(viii) 400mm	No.	1,00		
L306		(ix) 450mm	No.	1,00		
L307		(x) 500mm	No.	1,00		
L308		(xi) 550mm	No.	1,00		
		(b) 45 Bend with ND:				
L309		(ii) 80mm	No.	1,00		
L310		(iii) 100mm	No.	1,00		
L311		(iv) 150mm	No.	1,00		
L312		(v) 200mm	No.	1,00		
L313		(vi) 250mm	No.	1,00		
L314		(vii) 300mm	No.	1,00		
L315		(viii) 400mm	No.	1,00		
L316		(ix) 450mm	No.	1,00		
L317		(x) 500mm	No.	1,00		
L318		(xi) 550mm	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
		(c) 22.5 Bend with ND:				
L319		(ii) 80mm	No.	1,00		
L320		(iii) 100mm	No.	1,00		
L321		(iv) 150mm	No.	1,00		
L322		(v) 200mm	No.	1,00		
L323		(vi) 250mm	No.	1,00		
L324		(vii) 300mm	No.	1,00		
L325		(viii) 400mm	No.	1,00		
L326		(ix) 450mm	No.	1,00		
L327		(x) 500mm	No.	1,00		
L328		(xi) 550mm	No.	1,00		
		(d) 11.25 Bend with ND:				
L329		(ii) 80mm	No.	1,00		
L330		(iii) 100mm	No.	1,00		
L331		(iv) 150mm	No.	1,00		
L332		(v) 200mm	No.	1,00		
L333		(vi) 250mm	No.	1,00		
L334		(vii) 300mm	No.	1,00		
L335		(viii) 400mm	No.	1,00		
L337		(ix) 450mm	No.	1,00		
L338		(x) 500mm	No.	1,00		
L339		(xi) 550mm	No.	1,00		
		Extra-over item 8.2.4k for other types and sizes of bends				
L340		(i) Provisional sum		Provisional	Sum	10 000,00
L341		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	8.2.4k	Steel End Caps with ND:				
L342		80mm	No.	1,00		
L343		110mm	No.	1,00		
L344		160mm	No.	1,00		
L345		200mm	No.	1,00		
L346		250mm	No.	1,00		
L347		315mm	No.	1,00		
L348		355mm	No.	1,00		
		Extra-over item 8.2.4k for other types and sizes of end caps				
L349		(i) Provisional sum		Provisional	Sum	10 000,00
L350		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
	8.2.4m	Saddle Clamp Complete with bolts, nuts, flat gaskets, stiffened ring. Include drilling hole to DN of fitting Ø. Suitable Polypropylene Copolymer Compression fittings and specials for coupling of HDPE pipes: BSP Include for painting bolts with bituminous corrosion resisting paint :				
L351		80mm	No.	1,00		
L352		110mm	No.	1,00		
L353		160mm	No.	1,00		
L354		200mm	No.	1,00		
		Extra-over item 8.2.4m for other types and sizes of saddles				
L355		(i) Provisional sum		Provisional	Sum	10 000,00
L356		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
	8.2.4n	Steel Repair couplings with ND:				
L358		80mm	No.	1,00		
L359		110mm	No.	1,00		
TOTAL CARRIED FORWARD						

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SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L360		80mm	No.	1,00		
L361		110mm	No.	1,00		
L362		160mm	No.	1,00		
L363		200mm	No.	1,00		
L364		250mm	No.	1,00		
L365		315mm	No.	1,00		
		Extra-over item 8.2.4n for other types and sizes of repair couplings				
L366		(i) Provisional sum		Provisional	Sum	10 000,00
L367		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
	8.2.4O	HDPE specials, fittings and couplings				
		(a) HDPE Segmented bends 90° with nominal Size:				
L368		(i) 80mm	No.	1,00		
L369		(ii) 110mm	No.	1,00		
L370		(iii) 160mm	No.	1,00		
L371		(iv) 180mm	No.	1,00		
L372		(v) 200mm	No.	1,00		
L373		(vi) 225mm	No.	1,00		
L374		(vii) 250mm	No.	1,00		
L375		(viii) 280mm	No.	1,00		
		(ix) 315mm	No.	1,00		
L376		(x) 355mm	No.	1,00		
L377		(xi) 400mm	No.	1,00		
		(b) HDPE Segmented bends 45° with nominal size:				
L378		(i) 80mm	No.	1,00		
TOTAL CARRIED FORWARD						

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SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L379		(ii) 110mm	No.	1,00		
L380		(iii) 160mm	No.	1,00		
L381		(iv) 180mm	No.	1,00		
L382		(v) 200mm	No.	1,00		
L383		(vi) 225mm	No.	1,00		
L384		(vii) 250mm	No.	1,00		
L385		(viii) 280mm	No.	1,00		
L386		(ix) 315mm	No.	1,00		
L387		(x) 355mm	No.	1,00		
L388		(xi) 400mm	No.	1,00		
		(c) HDPE Seamless bends 90° with nominal size				
L389		(i) 80mm	No.	1,00		
L390		(ii) 110mm	No.	1,00		
L391		(iii) 160mm	No.	1,00		
L392		(iv) 180mm	No.	1,00		
L393		(v) 200mm	No.	1,00		
L394		(vi) 225mm	No.	1,00		
L395		(vii) 250mm	No.	1,00		
L396		(viii) 280mm	No.			
L397		(ix) 315mm	No.	1,00		
L398		(x) 355mm	No.	1,00		
L400		(xi) 400mm	No.	1,00		
L401		(x) 450mm	No.	1,00		
L402		(xi) 500mm	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

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SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
		(c) HDPE Seamless bends 90° with nominal size				
L403		(i) 80mm	No.	1,00		
L404		(ii) 110mm	No.	1,00		
L405		(iii) 160mm	No.	1,00		
L406		(iv) 180mm	No.	1,00		
L407		(v) 200mm	No.	1,00		
L408		(vi) 225mm	No.	1,00		
L409		(vii) 250mm	No.	1,00		
L410		(viii) 280mm	No.	1,00		
L411		(ix) 315mm	No.	1,00		
L412		(x) 355mm	No.	1,00		
L413		(xi) 400mm	No.	1,00		
		(d) HDPE Seamless bends 45° with nominal size				
L414		(i) 80mm	No.	1,00		
L415		(ii) 110mm	No.	1,00		
L416		(iii) 160mm	No.	1,00		
L417		(iv) 180mm	No.	1,00		
L418		(v) 200mm	No.	1,00		
L419		(vi) 225mm	No.	1,00		
L420		(vii) 250mm	No.	1,00		
L421		(viii) 280mm	No.	1,00		
L422		(ix) 315mm	No.	1,00		
L423		(x) 355mm	No.	1,00		
L424		(xi) 400mm	No.	1,00		
L425		Extra-over item 8.2.4o (a,b,c,d) for other types and sizes of bends				
L426		(i) Provisional sum		Provisional	Sum	10 000,00
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L427		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
		(e) HDPE Tees with nominal size:				
L428		(i) 80mm	No.	1,00		
L429		(ii) 110mm	No.	1,00		
L430		(iii) 160mm	No.	1,00		
L431		(iv) 180mm	No.	1,00		
L432		(v) 200mm	No.	1,00		
L434		(vi) 225mm	No.	1,00		
L435		(vii) 250mm	No.	1,00		
L436		(viii) 280mm	No.	1,00		
L437		(ix) 315mm	No.	1,00		
L438		(x) 355mm	No.	1,00		
L439		(xi) 400mm	No.	1,00		
		Extra-over item 8.2.4n (e) for other types and sizes of tees				
L440		(i) Provisional sum		Provisional	Sum	10 000,00
L441		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
		(f) HDPE reducing tees with nominal size:				
L442		125mm x 110mm	No.	1,00		
L443		140mm x 110mm	No.	1,00		
L444		140mm x 125mm	No.	1,00		
L445		160mm x 110mm	No.	1,00		
L446		160mm x 125mm	No.	1,00		
L447		160mm x 140mm	No.	1,00		
L448		200mm x 110mm	No.	1,00		
L449		200mm x 125mm	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

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SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L450		200mm x 140mm	No.	1,00		
L451		200mm x 160mm	No.	1,00		
L452		250mm x 110mm	No.	1,00		
L453		250mm x 125mm	No.	1,00		
L454		250mm x 140mm	No.	1,00		
L455		250mm x 160mm	No.	1,00		
L456		250mm x 200mm	No.	1,00		
		Extra-over item 8.2.4n (f) for other types and sizes of reducing tees				
L457		(i) Provisional sum		Provisional	Sum	10 000,00
L458		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
		(g) HDPE stub flange with nominal size:				
L459		(i) 80mm	No.	1,00		
L460		(ii) 110mm	No.	1,00		
L461		(iii) 160mm	No.	1,00		
L462		(iv) 180mm	No.	1,00		
L463		(v) 200mm	No.	1,00		
L464		(vi) 225mm	No.	1,00		
L465		(vii) 250mm	No.	1,00		
L466		(viii) 280mm	No.	1,00		
L467		(ix) 315mm	No.	1,00		
L468		(x) 355mm	No.	1,00		
L469		(xi) 400mm	No.	1,00		
		Extra-over item 8.2.4n (g) for other types and sizes of tees				
L470		(i) Provisional sum		Provisional	Sum	10 000,00
TOTAL CARRIED FORWARD						

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SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L471		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
		(h) HDPE Reducers with nominal size:				
L472		110mm x 75mm	No.	1,00		
L473		125mm x 75mm	No.	1,00		
L474		140mm x 75mm	No.	1,00		
L475		160mm x 75mm	No.	1,00		
L476		200mm x 75mm	No.	1,00		
L477		250mm x 75mm	No.	1,00		
L478		125mm x 110mm	No.	1,00		
L479		140mm x 110mm	No.	1,00		
L480		140mm x 125mm	No.	1,00		
L481		160mm x 110mm	No.	1,00		
L482		160mm x 125mm	No.	1,00		
L483		160mm x 140mm	No.	1,00		
L484		200mm x 110mm	No.	1,00		
L485		200mm x 125mm	No.	1,00		
L486		200mm x 140mm	No.	1,00		
L487		200mm x 160mm	No.	1,00		
L488		250mm x 110mm	No.	1,00		
L489		250mm x 125mm	No.	1,00		
L490		250mm x 140mm	No.	1,00		
L491		250mm x 160mm	No.	1,00		
L492		250mm x 200mm	No.	1,00		
L493		Extra-over item 8.2.4n (h) for other types and sizes of reducers				
L494		(i) Provisional sum		Provisional	Sum	10 000,00
L495		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
		(i) HDPE end caps with nominal size:				
L496		80mm	No.	1,00		
L497		110mm	No.	1,00		
L498		125mm	No.	1,00		
L499		140mm	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

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SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L494		160mm	No.	1,00		
L495		180mm	No.	1,00		
L496		200mm	No.	1,00		
		Extra-over item 8.2.4n (i) for other types and sizes of end caps				
L497		(i) Provisional sum		Provisional	Sum	10 000,00
L498		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
		(j) Puddle flanges				
L499		DN 80mm	No.	1,00		
L500		DN 100mm	No.	1,00		
L501		DN 150mm	No.	1,00		
L502		DN 200mm	No.	1,00		
L503		DN 225mm	No.	1,00		
L504		DN 250mm	No.	1,00		
L505		DN 300mm	No.	1,00		
L506		DN 375mm	No.	1,00		
L507		DN 450mm	No.	1,00		
L508		DN 500mm	No.	1,00		
L509		DN 600mm	No.	1,00		
		Extra-over item 8.2.4n (j) for other types and sizes of puddle flanges				
L510		(i) Provisional Sum		Provisional	Sum	10 000,00
L511		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
		Extra-over item 8.2.4 for Ductile Iron fittings and specials				
L512		(i) Provisional sum		Provisional	Sum	10 000,00
L513		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: BID 8/2/2463(2026-2029)

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SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	8.2.5	Supply and Place Pipes, Valves & Specials Supply, Install & Finish installation -Suitable Cast Iron, Mild steel (minimum wall thickness of 4,5mm) & uPVC fittings for coupling onto pipes. Complete with bolts, nuts, gaskets, seals & corrosion protection. If flanged : drilled to SANS 1123(1600/3) Boss flanges: Drilled to SANS 1123(1600/4) If screwed: BSP thread Bolts: Stainless steel grade 304 Pipes to SANS 62 Corrosion protection: Powder coated Final surface shall be smooth, glossy and uniform before powder coating, clean the surface - sand blast to Sa 3 Cl. 10.2 Primer: to manufacturer's specification Materials: Powder coating - High build Epoxy (SABS 1217 Type 2): DFT: 300 to 500 micron - Polyurethane (SABS 1578) on G.I DFT: 50 to 100 micron Alternative corrosion protection: Hot-dipped galvanized to SANS ISO 1461 and SANS EN 10240.				
	8.2.5a	Isolating Valves (a) Resilient seal gate valve non-rising spindle with stem cap, flanges drilled to SANS1123 (1600/3) Anti-clockwise closing. Complete with all components and gaskets and appurtenances				
L514		(i) DN 80mm	No.	1,00		
L515		(ii) DN 100mm	No.	1,00		
L516		(iii) DN 150mm	No.	1,00		
L517		(iv) DN 200mm	No.	1,00		
L518		(v) DN 250mm	No.	1,00		
L519		(vi) DN 300mm	No.	1,00		
L520		(vii) DN 350mm	No.	1,00		
L521		(viii) DN 400mm	No.	1,00		
		(b) Resilient seal gate valve non-rising spindle with stem cap, flanges drilled to SANS1123 (2500/3) Anti-clockwise closing. Complete with all components and gaskets and appurtenances				
L522		(i) DN 80mm	No.	1,00		
TOTAL CARRIED FORWARD						

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SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L523		(ii) DN 100mm	No.	1,00		
L524		(iii) DN 150mm	No.	1,00		
L525		(iv) DN 200mm	No.	1,00		
L526		(v) DN 250mm	No.	1,00		
L527		(vi) DN 300mm	No.	1,00		
L528		(vii) DN 400mm	No.	1,00		
L529		(viii) DN 450mm	No.	1,00		
L530		(viii) DN 500mm	No.			
L531		(ix) DN 700mm	No.			
		(c) Resilient seal gate valve non-rising spindle with stem cap, spigot and socket Anti-clockwise closing. Complete with all appurtenances				
L532		(i) DN 80mm	No.	1,00		
L533		(ii) DN 100mm	No.	1,00		
L534		(iii) DN 150mm	No.	1,00		
L535		(iv) DN 200mm	No.	1,00		
L536		(v) DN 250mm	No.	1,00		
L537		(vi) DN 300mm	No.	1,00		
L538		(c) Wedge gate valve non rising spindle PN 16 rated-hand wheel operated, anticlockwise closing, epoxy coated Flanges drilled to SANS 1123 (1600/3) complete with all gaskets and appurtenances				
L538		(i) DN 80mm	No.	1,00		
L539		(ii) DN 100mm	No.	1,00		
L540		(iii) DN 150mm	No.	1,00		
L541		(iv) DN 200mm	No.	1,00		
L542		(v) DN 250mm	No.	1,00		
TOTAL CARRIED FORWARD						

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SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L543		(vi) DN 300mm	No.	1,00		
L544		(vii) DN 350mm	No.	1,00		
L545		(viii) DN 400mm	No.	1,00		
		(d) Wedge gate valve non rising spindle PN 16 rated-hand wheel operated, anti-clockwise closing, epoxy coated Flanges drilled to SANS 1123 (1600/3) complete with all gaskets and appurtenances				
L546		(i) DN 80mm	No.	1,00		
L547		(ii) DN 100mm	No.	1,00		
L548		(iii) DN 150mm	No.	1,00		
L549		(iv) DN 200mm	No.	1,00		
L550		(v) DN 250mm	No.	1,00		
L551		(vi) DN 300mm	No.	1,00		
L552		(vii) DN 350mm	No.	1,00		
L553		(viii) DN 400mm	No.	1,00		
		Extra-over item 8.2.5a for other types and sizes of isolating valves				
L554		(i) Provisional sum		Provisional	Sum	10 000,00
L555		(iii) Contractors mark-up on item (i) above for handling, transportation and installation	%	10 000,00		
	8.2.5b	Scour valves				
		Supply and install complete with all components scour valves, epoxy coated, anticlockwise closing PN16 flanged with all components and gaskets and appurtenances				
L556		(i) DN 80mm	No.	1,00		
L557		(ii) DN 100mm	No.	1,00		
L558		(iii) DN 150mm	No.	1,00		
L559		(iv) DN 200mm	No.	1,00		
L560		(v) DN 250mm	No.	1,00		
L561		(vi) DN 300mm	No.	1,00		
L562		(iii) DN 450mm	No.	1,00		
TOTAL CARRIED FORWARD						

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SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
		Supply and install complete with all components scour valves, epoxy coated, anticlockwise closing PN 25 flanged with all components and gaskets and appurtenances				
L563		(i) DN 350mm	No.	1,00		#REF!
L564		(ii) DN 400mm	No.	1,00		
L565		(iii) DN 450mm	No.	1,00		
L566		(iv) DN 500mm	No.	1,00		
L567		(v) DN 650mm	No.	1,00		
L568		(vi) DN 700mm	No.	1,00		
		Extra-over item 8.2.5b for other types and sizes of scour valves				
L569		(i) Provisional sum		Provisional	Sum	10 000,00
L570		(ii) Contractors mark-up on item (i) above for handling, transportation and installation	%	10 000,00		
	8.2.5c	Control valves				
		(a) Rate of flow control valve CLA-VAL SERIES 40/640 (or similar approved) flanged complete with all components and gaskets and appurtenances				
L571		(i) DN 80mm	No.	1,00		
L572		(ii) DN 100mm	No.	1,00		
L573		(iii) DN 125mm	No.	1,00		
L574		(iv) DN 150mm	No.	1,00		
L575		(v) DN 200mm	No.	1,00		
L576		(vi) DN 250mm	No.	1,00		
L577		(vii) DN 300mm	No.	1,00		
L578		(viii) DN 350mm	No.	1,00		
L579		(xv) DN 400mm	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: BID 8/2/2463(2026-2029)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
		(b) Pressure sustaining valve CLA-VAL SERIES 50/650 (or similar approved) flanged complete with all components and gaskets and appurtenances				
L580		(i) DN 80mm	No.	1,00		
L581		(ii) DN 100mm	No.	1,00		
L582		(iii) DN 125mm	No.	1,00		
L583		(iv) DN 150mm	No.	1,00		
L584		(v) DN 200mm	No.	1,00		
L585		(vi) DN 250mm	No.	1,00		
L586		(vii) DN 300mm	No.	1,00		
L587		(viii) DN 350mm	No.	1,00		
L588		(xv) DN 400mm	No.	1,00		
		(c) Pump control valve CLA-VAL SERIES 60/660 flanged complete with all components and gaskets and appurtenances				
L589		(i) DN 80mm	No.	1,00		
L590		(ii) DN 100mm	No.	1,00		
L591		(iii) DN 125mm	No.	1,00		
L592		(iv) DN 150mm	No.	1,00		
L593		(v) DN 200mm	No.	1,00		
L594		(vi) DN 250mm	No.	1,00		
L595		(vii) DN 300mm	No.	1,00		
L596		(viii) DN 350mm	No.	1,00		
L597		(xv) DN 400mm	No.	1,00		
		(d) Pressure Reducing valve CLA-VAL SERIES 90/690 (or similar approved) flanged complete with all components and gaskets and appurtenances				
L598		(i) DN 80mm	No.	1,00		
L599		(ii) DN 100mm	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L600		(iii) DN 125mm	No.	1,00		
L601		(iv) DN 150mm	No.	1,00		
L602		(v) DN 200mm	No.	1,00		
L603		(vi) DN 250mm	No.	1,00		
L604		(vii) DN 300mm	No.	1,00		
L605		(viii) DN 350mm	No.	1,00		
L606		(xv) DN 400mm	No.	1,00		
		(e) Non Return/Check valve CLA-VAL SERIES 81 (or similar approved) flanged complete with all components and gaskets and appurtenances				
L607		(i) DN 80mm	No.	1,00		
L608		(ii) DN 100mm	No.	1,00		
L609		(iii) DN 125mm	No.	1,00		
L610		(iv) DN 150mm	No.	1,00		
L611		(v) DN 200mm	No.	1,00		
L612		(vi) DN 250mm	No.	1,00		
L613		(vii) DN 300mm	No.	1,00		
L614		(viii) DN 350mm	No.	1,00		
L615		(xv) DN 400mm	No.	1,00		
		Extra-over item 8.2.5c for other types and sizes of Control Valves				
L616		(i) Provisional sum		Provisional	Sum	10 000,00
L617		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
	8.2.5d	Air Valves				
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
		Air and vacuum break valve, Vent-o-Mat Series RBX or similar approved complete with mounting flange gaskets and bolts and nuts and appurtenances				
L618		ND 25 (2511) - Screwed	No.	1,00		
L619		ND 50 (2511) - Screwed	No.	1,00		
L620		ND 80 (1601) - Flanged	No.	1,00		
L621		ND 80 (2501) - Flanged	No.	1,00		
L622		ND 100 (1601) - Flanged	No.	1,00		
L623		ND 100 (2501) - Flanged	No.	1,00		
L624		ND 150 (1601) - Flanged	No.	1,00		
L625		ND 150 (2501) - Flanged	No.	1,00		
L626		ND 200 (1601) - Flanged	No.	1,00		
L627		ND 200 (2501) - Flanged	No.	1,00		
		Extra-over item 8.2.5d for other types and sizes of Air Valves				
L628		(i) Provisional Sum		Provisional	Sum	10 000,00
L629		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
	8.2.5e	Fire Hydrant Valves				
		Supply and install complete with all components and gaskets and appurtenances				
L630		(i) Below ground level type	No.	1,00		
L631		(ii) Above ground level type	No.	1,00		
		Extra-over item 8.2.5e for other types and sizes of fire hydrant valves				
L632		(i) Provisional sum		Provisional	Sum	10 000,00
L633		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L634	8.2.5f	Manzi Lock Supply and install complete to fit onto Resilient Seal Gate Valve stem cap	No.	1,00		
L635	8.2.5g	Pressure Gauge Supply and install complete to it onto G.I pipe complete with couplers and fasteners and appurtenances Pressure Gauge: DN15mm Extra-over item 8.2.5g for other types and sizes of pressure gauges	No.	1,00		
L636		(i) Provisional sum	—	Provisional	Sum	10 000,00
L637		(ii) Contractors markup on item (i) above for handling, transportation and installation	%	10 000,00		
L638	8.2.5h	Fire Hydrant Fittings: above ground level Complete as per Drawing No. AC345/19/FD01	No.	1,00		
L639	8.2.5i	Fire Hydrant Fittings: Below ground level Complete as per Drawing No. AC345/19/FD01	No.	1,00		
L640	8.2.5j	Fire Hydrant Fittings: Woodland type or similar Complete as per Drawing No. AC345/19/FD01	No.	1,00		
L641	8.2.11	Anchor/Thrust blocks and pedestals Complete as per Drawing No. AC345/19/SD/10 Concrete (20MPa/19mm)	m³	1,00		
L642		Formwork	m²	1,00		
L643	8.2.13	Valve and hydrant chambers Valve chamber as per Drawing No. AC345/19/CD01	No.	1,00		
L644		Air Valve chamber as per Drawing No. AC345/19/SD01	No.	1,00		
L645		Scour Valve chamber as per Drawing No. AC345/19/SD03	No.	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

RINGS 1200 - MEDIUM PRESSURE PIPELINES						
ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L646	8.2.13	Formwork	m²	1,00		
L647		Valve and hydrant chambers				
L648		Valve chamber as per Drawing No. AC345/19/CD02	No.	1,00		
L649		Air Valve chamber as per Drawing No. AC345/19/SD02	No.	1,00		
L650		Scour Valve chamber as per Drawing No. AC345/19/SD03a	No.	1,00		
L651	8.2.13	Formwork	m²	1,00		
L652		Valve and hydrant chambers				
L653		Air Valve chamber 1500mm dia. Rings with 650mm dia Composite Fiber lid, painted yellow with 75mm blackstenciled letters, stating chainage and marked AV No.	No.	1,00		
L654		Valve chamber minimum scour pipe of 160mm dia. With 650mm dia. Composite Fiber lid, painted yellow with 75mm black tenciled letters, stating chainage and marked SV No.	No.	1,00		
		Scour Valve chamber as per Drawing No. AC	No.	1,00		
		PSL8.2.15 Special Wrapping (Denso lay flat or similar approved in writing)				
L655		(a) Buried Flanges				
L656		DN50 to DN150	No.	1,00		
L657		DN150 to DN200	No.	1,00		
L658		DN200 to DN250	No.	1,00		
L659		DN250 to DN300	No.	1,00		
L660		DN300 to DN350	No.	1,00		
L661		DN350 to DN400	No.	1,00		
L662		DN400 to DN450	No.	1,00		
L663		DN450 to DN500	No.	1,00		
L664		(b) Viking Johnson Type coupling: Buried				
TOTAL CARRIED FORWARD						

CONTRACT NO.: BID 8/2/2463(2026-2029)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 8

SANS 1200L - MEDIUM PRESSURE PIPELINES

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
L665		DN50 to DN150	No.	1,00		
L666		DN150 to DN200	No.	1,00		
L667		DN200 to DN250	No.	1,00		
L668		DN250 to DN300	No.	1,00		
L669		DN300 to DN350	No.	1,00		
L670		DN350 to DN400	No.	1,00		
L671		DN400 to DN450	No.	1,00		
L672		DN450 to DN500	No.	1,00		
L673		(c) Buried steel pipes: only where directed by Engineer in writing				
L674		DN50 to DN150	m	1,00		
L675		DN150 to DN200	m	1,00		
L676		DN200 to DN250	m	1,00		
L677		DN250 to DN300	m	1,00		
L678		DN300 to DN350	m	1,00		
L679		DN350 to DN400	m	1,00		
L680		DN400 to DN450	m	1,00		
L681		DN450 to DN500	m	1,00		
L682	PSL8.2.16	Marker Posts	No.	1,00		
CARRIED FORWARD TO SUMMARY						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 9

SANS 1200LB - BEDDING

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
LB	SABS 1200 LB	SECTION LB: BEDDING PROVISION OF BEDDING Available from trench within 0,5 km (Subclause 3.4.1)				
LB1	8.2.1	(a) Selected granular material	m³	1,00		
LB2		(b) Selected fill material	m³	1,00		
	8.2.2	Supply only of bedding by Importation				
	8.2.2.2	From Commercial sources (Provisional)				
LB3		(1) Selected granular material	m³	1,00		
LB4		(2) Selected fill material	m³	1,00		
LB5		(3) 19mm stone	m³	1,00		
	8.2.2.3	From Commercial sources (Provisional)				
LB3		(1) Selected granular material	m³	1,00		
LB4		(2) Selected fill material	m³	1,00		
LB5		(3) 19mm stone	m³	1,00		
LB6	PSA	Extra-over items LB3 to LB9 for screening of bedding materials	m³	1,00		
LB7		Extra-over items LB3 to LB 9 for bedding stabilized with 5% cement	m³	1,00		
LB8		Extra-over items LB9 for geotextile (Bidem U19 or similar)	m²	1,00		
LB9	8.2.3	Concrete Bedding Cradle	m³	1,00		
LB10	8.2.4	Encasing of pipes in concrete	m³	1,00		
	8.2.5	Overhaul of material for bedding (Provisional) where ordered Extra-over items LB3 TO LB4				
LB11		a) Selected granular material	m³.km	1,00		
LB12		b) Selected fill material	m³.km	1,00		
	SABS 1200 G 8.3.2	High-tensile welded mesh in the following: Ref 395 in concrete encasing around pipes	m²	1,00	-	
CARRIED FORWARD TO SUMMARY						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**
BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS
FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 10

SANS 1200 LC : CABLE DUCTS

ITEM NO.	REFE- RENCE	DESCRIPTION	UNIT	QUANT	RATE R C	AMOUNT R C
	SANS 1200 LF	SECTION 5 : CABLE DUCTS				
		Supply, Lay, Bed and Prove Duct:				
	8.2.2	Excavation				
LC01		(a) Excavate in all material for trenches, backfill, compact and dispose of surplus	m³	1,00		
LC02		(b) Extra over items (a) above for:				
LC03		(i) Intermediate excavation	m³	1,00		
LC04		(ii) Hard rock excavation	m³	1,00		
LC05		(iii) Boulder excavation, class A	m³	1,00		
LC06		(iv) Boulder excavation, class B	m³	1,00		
LC07	8.2.3	Shore trench at structures	m	1,00		
LC08	8.2.5	Supply, Lay, Bed and Prove Duct:	m	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 11

SANS 1200 LF : WATER -ERF CONNECTION

ITEM NO.	REFERENCE	DESCRIPTION	UNIT	QUANT	RATE R C	AMOUNT R C
	SANS 1200 LF	SECTION 5 : WATER - ERF CONNECTIONS				
LF1	8.2.1	Provide erf connection complete as per drawing AC265/11/10				
LF1.1		a) Double	No	1,00		
LF1.2		b) Single	No	1,00		
LF2	8.2.2	Supply, lay and test erf connection				
LF2.1		a) Type V, Class 12 PN 12.5 PE 80 HDPE pipes including all fittings, couplings and saddles:				
LF2.1		20 mm dia	m	1,00		
LF2.1.1		25 mm dia	m	1,00		
LF2.1.3		32 mm dia	m	1,00		
LF2.2		b) Galvanized mild steel, medium class pipes, including all fittings and couplings:				
LF2.2.1		20 mm dia	m	1,00		
LF2.2.2		25 mm dia	m	1,00		
LF2.2.3		40 mm dia	m	1,00		
LF3	8.2.3	Extra over item 8.2.2 for specials				
LF3.1		a) GMS - 90° Bends				
LF3.1.1		½ "	No	1,00		
LF3.1.2		¾ "	No	1,00		
LF3.2		b) Plasson 90° elbow with male offtake				
LF3.2.1		25 x ¾ "	No	1,00		
LF3.3		c) Plasson 90° elbow with female offtake				
LF3.3.1		32 x 1"	No	1,00		
LF3.4		d) GMS Nipples				
LF3.4.1		½ "	No	1,00		
LF3.4.2		¾ "	No	1,00		
LF3.5		e) Plasson female adapter				
LF3.5.1		25 x ½ "	No	1,00		
LF3.5.2		25 x ¾ "	No	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: BID 8/2/2463(2026-2029)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 10

SANS 1200 LF : WATER -ERF CONNECTION

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
LF3.6		f) Plasson male adapter				
LF3.6.1		25 x ½ "	No	1,00		
LF3.6.2		25 x ¾ "	No	1,00		
LF3.6.3		32 x 1¼"	No	1,00		
LF3.7		g) Plasson 90° Tee with female offtake				
LF3.7.1		25 x 1¼" x 25	No	1,00		
LF3.8		h) Cobra brass ball valve (Ball-o-stop)				
LF3.8.1		¾ "	No	1,00		
LF3.9		i) Plasson saddles				
LF3.9.1		75 x 32 mm	No	1,00		
LF3.9.2		90 x 32 mm	No	1,00		
LF3.9.3		110 x 32 mm	No	1,00		
LF3.9.4		160 x 32 mm	No	1,00		
LF3.9.5		200 x 32 mm	No	1,00		
LF3.9.6		250 x 32 mm	No	1,00		
LF3.10		j) Mild steel saddles				
LF3.10.1		315 x 32 mm	No	1,00		
LF3.10.2		355 x 32 mm	No	1,00		
LF3.10.3		400 x 32 mm	No	1,00		
LF3.11		k) Cast iron saddles				
LF3.11.1		50 x 32 mm	No	1,00		
LF3.11.2		75 x 32 mm	No	1,00		
LF3.11.3		90 x 30 mm	No	1,00		
LF3.11.4		100 x 32 mm	No	1,00		
LF3.11.5		150 x 32 mm	No	1,00		
LF3.11.6		200 x 32 mm	No	1,00		
LF3.11.7		250 x 32 mm	No	1,00		
LF3.12	PSLF 7	l) Collect, store and installation of water meters	No	1,00		
LF3.13	PSLF 8	m) Secure and deliver old of water meters to MLM depot	No	1,00		
LF3.14	PSLF 9	n) Provision of Pillar type meter box complete with Class C 15mm water meter	No	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 10

SANS 1200 LF : WATER -ERF CONNECTION

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
LF3.15		p) 110 mm dia Polyethylene round valve box	No	1,00		
LF.3.16		q) GMS End Caps				
LF3.16.1		½ "	No	1,00		
LF3.16.2		¾ "	No	1,00		
LF3.16.3		1 "	No	1,00		
LF.3.17		r) Plasson End Caps				
LF3.17.1		20 mm	No	1,00		
LF3.17.2		25 mm	No	1,00		
LF3.17.3		32 mm	No	1,00		
LF.4		Ancillaries				
LF4.1		Remove existing water meter	No	1,00		
LF4.2		Connect, new communication pipe at old water meter connection	No	1,00		
CARRIED FORWARD TO SUMMARY						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 11

PSLV - PIPE JACKING AND BORING

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	LG	PIPE JACKING				
	8.2.1	Jacking Establishment				
LG1		(a) Fixed charges	Sum	1,00		
LG2		(b) Time related charges	Sum	1,00		
	8.2.2	Supply of concrete pipes to be jacked - D-Load designation 100D		1,00		
LG3		(a) 300mm Diameter	m	1,00		
LG4		(b) 400mm Diameter	m	1,00		
LG5		(c) 500 mm Diameter	m	1,00		
LG6		(d) 600 mm Diameter	m	1,00		
LG7.12		(e) 700mm Diameter	m	1,00		
LG8		(f) 800mm Diameter	m	1,00		
LG9		(g) 900mm Diameter	m	1,00		
LG10		(h) 1000mm Diameter	m	1,00		
	8.2.3	Jacking of concrete pipes - D-Load designation 100D				
LG11		(a) 300mm Diameter	m	1,00		
LG12		(b) 400mm Diameter	m	1,00		
LG13		(c) 500 mm Diameter	m	1,00		
LG14		(d) 600 mm Diameter	m	1,00		
LG15		(e) 700mm Diameter	m	1,00		
LG16		(f) 800mm Diameter	m	1,00		
LG17		(g) 900mm Diameter	m	1,00		
LG18		(h) 1000mm Diameter	m	1,00		
	8.2.4	Excavation for Jacking				
LG19		(i) soft excavation	m ³	1,00		
LG20		(ii) intermediate excavation	m ³	1,00		
LG21	8.2.5	Extra-Over 8.2.1 and 8.2.4 for unseen rock and boulders	Pov Sum	1,00		10 000,00
	8.2.6	Supply and install Pipeline by Pipe Jacking Method, Complete with Excavation				
LG22		50 mm dia. HDPE PE63 (TYPE IV) Class 12	m	1,00		
LG23		75 mm dia. HDPE PE63 (TYPE IV) Class 12	m	1,00		
LG24		110 mm dia. HDPE PE63 (TYPE IV) Class 12	m	1,00		
LG25		160 mm dia. HDPE PE63 (TYPE IV) Class 12	m	1,00		
LG26		250 mm dia. HDPE PE63 (TYPE IV) Class 12	m	1,00		
LG27		315 mm dia. HDPE PE63 (TYPE IV) Class 12	m	1,00		
LG28		400 mm dia. HDPE PE63 (TYPE IV) Class 12	m	1,00		
LG29		500 mm dia. HDPE PE63 (TYPE IV) Class 12	m	1,00		
LG30		600 mm dia. HDPE PE63 (TYPE IV) Class 12	m	1,00		
LG31		800 mm dia. HDPE PE63 (TYPE IV) Class 12	m	1,00		
LG32		900 mm dia. HDPE PE63 (TYPE IV) Class 12	m	1,00		
TOTAL CARRIED FORWARD TO SUMMARY						10 000,00

CONTRACT NO.: BID 8/2/2463(2026-2029)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 11

PSLV - PIPE JACKING AND BORING

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						10 000,00
LG33	8.2.7	Extra-Over 8.2.6 for length of pipeline greater than 85m	m	1,00		
	8.2.8	Extra-Over 8.2.6 for length of pipeline greater than 85m				
LG33		(a) Using pneumatic tools or other techniques where blasting is not permitted	m	1,00		
LG34		(b) Using explosives, where permitted	m	1,00		
	8.2.9	Stabilization of Unstable Areas or Grouting of Voids where ordered				
LG35		(a) Provision and establishment of equipment on Site, and removal of on completion	Sum	1,00		
LG36		(b) Operation of equipment	Day	1,00		
LG37		(c) Materials used	kg	1,00		
LG38	8.2.10	Standing time for pipe Jacking Gang and the Jacking Equipment covered by 8.2.1	hr	1,00		
TOTAL CARRIED FORWARD						

CONTRACT NO.: **BID 8/2/2463(2026-2029)**

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 TO 30 JUNE 2029

SCHEDULE 12

SANS 0400 - PUMP STATION BUILDING

ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
PSB 1	SANS 0400	<u>BRICKWORK</u>				
		<u>BRICKWORK</u>				
PSB 2		One brick wall in clay bricks , minimum 7MPa compressive strength complying to SANS 227 in cement sand mortar 1:6	m²	1,00		
PSB 3		Brick on edge window cill	m	1,00		
		<u>FACINGS</u>				
PSB 4		Extra over common brick as described above for facebrickwork in dark facebrick 'corobrick country classic traventine.	m²	1,00		
		<u>Builders Work In Connection with</u>				
PSB 5		Form hole in facebrick size 860x860mm for 500mm diameter steel pipe, enclose pipe in concrete (10Mpa) , including all formwork as necessary making good around brickwork and finishing as specified.	no	1,00		
PSB 6		Form hole in common brick size 860x860mm for 500mm diameter steel pipe, enclose pipe in concrete (10Mpa) , including all formwork as necessary making good around brickwork and finishing as specified.	no	1,00		
PSB 7		Pin or build in end of steel joists to brickwork in cement mortar. Cotts' or other equal and approved mesh brick reinforcement lapped at all angles and junctions (measured nett)	no	1,00		
PSB 8		Ref. C2 in one brick walls	m	1,00		
	SANS 0400	<u>Building In</u>				
PSB 9		Set up in position, cross brace and build in pressed steel door frame not exceeding 5 square metres.	no	1,00		
PSB 10		Set up in position, cross brace and build in roller shutter doors.	no	1,00		
PSB 11		Ditto steel louvres	no	1,00		
PSB 12		Set up in position and build in steel window and frame not exceeding 5 square metres.	no	1,00		
		<u>Damp Proofing</u>				
PSB 13		One layer of three ply bituminous felt sheeting laid on walls, lapped and sealed at all angles and junctions on and including a bed of mortar trowelled smooth (measured nett).	m2	1,00		
PSB 14		Ditto laid under cills including dressing as required (ditto)	m2	1,00		
TOTAL CARRIED FORWARD						

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO. 8/2/2/463 (2026-2029) PAGE (192)
 BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF
 AGED WATER RETICULATION PIPELINES AND ASSOCIATED
 INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS
 AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Schedule of Rates

C2.3 SUMMARY TO SCHEDULE OF QUANTITIES

SECTION	DESCRIPTION	AMOUNT (ZAR)
SABS 1200 A	PRELIMINARY AND GENERAL	
SABS 1200 C	SITE CLEARANCE	
SABS 1200 D	EARTHWORKS	
SABS 1200 DB	EARTHWORKS (PIPE TRENCHES)	
SABS 1200 DK	GABIONS	
SABS 1200 GA	CONCRETE (SMALL WORKS)	
SABS 1200 G	REINFORCED CONCRETE	
SABS 1200 L	MEDIUM-PRESSURE PIPELINES	
SABS 1200 LB	BEDDING (PIPES)	
SABS 1200 LC	CABLE DUCT	
SABS 1200 LF	WATER ERF CONNECTION	
SABS 1200 LG	PIPE JACKING & BORING	
SABS 1200 PSB	PUMP STATION BUILDING	
	TOTAL OF SCHEDULE OF QUANTITIES CARRIED TO	

N.B.

1. THREE YEARS FINANCIAL STATEMENTS MUST SUBMITTED WITH THIS BID
2. THE ESTIMATED QUANTITIES IN THIS BILL OF QUATINTIES ARE FOR EVALUATION PURPOSE ONLY
- 3.ALL ITEMS IN THE BILL OF QUANTITIES MUST BE PRICED AS PER THE PRICING INSTRUCTIONS

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO. 8/2/2/463 (2026-2029) PAGE (193)

BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Schedule of Rates

C2.4 CALCULATION OF TENDER SUM

TOTAL SCHEDULE	R
TENDER (CONTRACT) SUM (A)	R
SUB-TOTAL (B)	R
ADD 15% VAT FOR (B)	R
TENDER (CONTRACT) PRICE CARRIED TO FORM OF OFFER OF ACCEPTANCE	R

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

PSA GENERAL

PSA 1 SCOPE

REPLACE THE CONTENTS OF SUBCLAUSE 1.1, INCLUDING THE NOTES, WITH THE FOLLOWING:

"1.1 This specification covers requirements, principles and responsibilities of a general nature which are generally applicable to civil engineering construction and building works contracts, as well as the requirements for the Contractor's establishment on the Site."

PSA 2 INTERPRETATIONS

PSA 2.3 DEFINITIONS

IN THE OPENING PHRASE BETWEEN THE WORDS "specification" AND "the following", INSERT THE WORDS "the definitions given in the Conditions of Contract and".

(a) General

ADD THE FOLLOWING DEFINITIONS:

General Conditions' and 'Conditions of Contract': The General Conditions of Contract specified for use with this Contract, together with the Contract Data.

'Specified': As specified in the Standardized Specifications, the Drawings or the Project Specifications. 'Specifications' shall have the corresponding meaning."

(c) Measurement and payment

REPLACE THE DEFINITIONS FOR "Fixed charge", "Time-related charge" AND "Value-related charge" WITH THE FOLLOWING:

" 'Fixed charge': A charge that is not subject to adjustment on account of variations in the value of the Contract Price or the time allowed in the Contract for the completion of the work.

Time-related charge': A charge, the amount of which varies in accordance with the Time for Completion of the Works, adjusted in accordance with the provisions of the Contract.

Value-related charge': A charge, the amount of which varies pro rata with the final value of the measured work executed and valued in accordance with the provisions of the Contract.' "

PSA MATERIALS

PSA 3.1 QUALITY

ADD THE FOLLOWING AT THE END OF SUBCLAUSE 3.1:

"All manufactured materials supplied shall be new materials unless the contrary is specified. All materials specified to be in accordance with SANS Specifications shall bear the SANS mark, where such a mark is available for the type of product."

PSA 4 PLANT

PSA 4.1 SILENCING OF PLANT

REPLACE THE CONTENTS OF SUBCLAUSE 4.1 WITH THE FOLLOWING:

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

"The Contractor's attention is drawn to the applicable regulations pertaining to noise and hearing conservation, framed under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) as amended.

The Contractor shall at all times and at his own cost, be responsible for implementing all necessary steps to ensure full compliance with such regulations, including but not restricted to the provision and use of suitable and effective silencing devices for pneumatic tools and other plant which would otherwise cause a noise level in excess of that specified in the said regulations.

Where appropriate, the Contractor shall further, by means of temporary barriers, effectively isolate the source of such noise in order to comply with the said regulations."

PSA 4.2 CONTRACTOR'S OFFICES, STORES AND SERVICES

ADD THE FOLLOWING PARAGRAPH BEFORE THE EXISTING FIRST PARAGRAPH IN SUBCLAUSE 4.2:

"The Contractor's buildings, sheds and other facilities erected or utilised on the Site for the purposes of the Contract shall be fenced off and shall contain all offices, stores, workshops, testing laboratories, toilet facilities, etc. as may be required by the Contractor. The facilities shall always be kept in a neat and orderly condition.

No personnel may reside on the Site. Only night-watchmen may be on the Site after hours."

DELETE "and first-aid services" IN THE SECOND PARAGRAPH OF SUBCLAUSE 4.2 AND ADD THE FOLLOWING:

"The Contractor shall provide on the Site and in close proximity to the actual locations where the work is being executed, one toilet per 10 workmen, which toilets shall be effectively screened from public view and their use enforced. Such toilets shall be relocated from time to time as the location of the work being executed changes, so as to ensure that easy access to the toilets is maintained.

The Contractor shall, where applicable, make all necessary arrangements and pay for the removal of night soil."

PSA 5 CONSTRUCTION

PSA 5.1 SURVEY

PSA 5.1.2 Preservation and replacement of survey beacons and pegs subject to the

Land Survey Act

DELETE THE WORDS "in the vicinity of boundaries" IN THE SECOND SENTENCE OF SUBCLAUSE 5.1.2 AND REPLACE THE WORDS "under the direction of" IN THE SAME SENTENCE WITH "in consultation and liaison with".

ADD THE FOLLOWING AFTER THE SECOND SENTENCE OF SUBCLAUSE 5.1.2:

"The Contractor and the **Engineer** shall record on the said list, their concurrence or disagreement (as the case may be) regarding the completeness and accuracy of the details recorded therein."

At the completion of the Contract, the Contractor shall expose all pegs that were listed at the commencement of the construction as being in order and the Contractor shall arrange with a registered Land Surveyor for the checking of the positions of all such pegs and the replacement of those that the Land Surveyor's check reveals have become disturbed or damaged.

The Contractor shall, as a precedent to the issue of the Certificate of Completion, provide to the Engineer, a certificate from the registered land surveyor, certifying that all the pegs listed at the commencement of construction in accordance with the provisions of this clause, have been checked and that those found to have been disturbed, damaged or destroyed have been replaced in their correct positions, all in accordance with the provisions of the said Act.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

- (a) cannot reasonably be re-established in their original positions by reason of the finished dimensions of the permanent works, and

the Contractor can prove beyond reasonable doubt to the satisfaction of the Engineer, were disturbed, damaged or destroyed by others beyond his control."

PSA 5.3 PROTECTION EXISTING STRUCTURES

REPLACE "Machinery and Occupational Safety Act, 1983 (Act No 6 of 1983)" WITH "Occupational Health and Safety Act, 1993 (Act No 85 of 1993), as amended," AND INSERT THE FOLLOWING AFTER "(Act No. 27 of 1956)": "as amended".

PSA5.4 PROTECTION OF OVERHEAD AND UNDERGROUND SERVICES

REPLACE THE HEADING AND THE CONTENTS OF SUBCLAUSE 5.4 WITH THE FOLLOWING

"PSA 5.4 LOCATION AND PROTECTION OF EXISTING SERVICES**PSA 5.4.1 Location of existing services**

Before commencing with any work in an area, the Contractor shall ascertain the presence and actual position of all services which can reasonably be expected by an experienced and competent contractor to be present on, under, over or within the Site.

Without in any way limiting his liability in terms of the Conditions of Contract in relation to damage to property and interference with services, the Contractor shall, in collaboration with the Engineer, obtain the most up-to-date plans as are available, showing the positions of services existing in the area where he intends to work. Neither the Employer nor the Engineer offers any warranty as to the accuracy or completeness of such plans and because services can often not be reliably located from plans, the Contractor shall ascertain the actual location of services depicted on such plans by means of careful inspection of the Site.

Thereafter, the Contractor shall, by the use of appropriate methodologies, carefully expose the services at such positions as are agreed to by the Engineer, for the purposes of verifying the exact location and position of the services. Where the exposure of existing services involves excavation to expose underground services, the further requirements of subclauses 4.4 and 5.1.2.2 of SABS 1200 D shall apply.

The aforesaid procedure shall also be followed in respect of services not shown on the plans but which may reasonably be anticipated by an experienced Contractor to be present or potentially present on the site.

All services, the positions of which have been determined as aforesaid at the critical points, shall henceforth be designated as 'known services' and their positions shall be

indicated by the Contractor on a separate set of drawings, a copy of which shall be furnished to the Engineer without delay.

As soon as any service which has not been identified and located as described above is encountered on, under, over or within the site, it shall henceforth be deemed to be a known service and the aforesaid provisions pertaining to locating, verifying and recording its position on the balance of the site shall apply. The Contractor shall notify the Engineer immediately when any such service is encountered or discovered on the Site.

Whilst he is in possession of the Site, the Contractor shall be liable for all loss of or damage as may occur to

- (a) known services, anywhere along the entire lengths of their routes, as may reasonably be deduced from the actual locations at which their positions were verified as aforesaid, due cognizance being taken of such deviations in line and level which may reasonably be anticipated, and
- (b) any other service which ought reasonably to have been a known service in accordance with the provisions of this clause.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

The Contractor shall also be liable for consequential damage in regard to (a) and (b), whether caused directly by the Contractor's operations or by the lack of proper protection.

No separate payment will be made to the Contractor in respect of his costs of providing, holding available on the Site and utilising the said detecting and testing equipment, nor for any costs incurred in preparing and submitting to the Engineer the Drawings as aforesaid. These costs shall be deemed included in the Contractor's other tendered rates and prices included in the Contract.

Payment to the Contractor in respect of exposing services at the positions agreed by the Engineer and as described above will be made under the payment items (if any) as may be provided for in the respective sections of the specifications pertaining to the type of work involved.

PSA 5.4.2 Protection during construction

The Contractor shall take all reasonable precautions and arrange its operations in such a manner as to prevent damage occurring to all known services during the period which the Contractor has occupation and/or possession of the Site.

Services left exposed shall be suitably protected from damage and in such a manner as will eliminate any danger arising therefrom to the public and/or workmen, all in accordance with the requirements of the prevailing legislation and related regulations.

Unless otherwise instructed by the Engineer, no services shall be left exposed after its exact position has been determined and all excavations carried out for the purpose of exposing underground services shall be promptly backfilled and compacted. In roadways, the requirements of subclause 5.9 of SANS 1200 DB should be observed. In other areas compaction is to be to 93% modified AASHTO density.

PSA 5.4.3 Alterations and repairs to existing services

Unless the contrary is clearly specified in the Contract or ordered by the Engineer, the Contractor shall not carry out alterations to existing services. When any such alterations become necessary, the Contractor shall promptly inform the Engineer, who will either make arrangements for such work to be executed by the owner of the service, or instruct the Contractor to make such arrangements himself.

Should damage occur to any existing services, the Contractor shall immediately inform the Engineer, or when this is not possible, the relevant authority, and obtain instructions as to who should carry out repairs. In urgent cases, the Contractor shall take appropriate steps to minimise damage to and interruption of the service. No repairs of telecommunication cables or electric power lines and cables shall be attempted by the Contractor.

A list of important telephone numbers for use when services are damaged or need to be altered is provided below:

PSA 5.7 SAFETY

REPLACE THE CONTENTS OF SUBCLAUSE 5.7 WITH THE FOLLOWING

"Pursuant to the provisions of the Conditions of Contract, and without in any way limiting the Contractors obligations thereunder, the Contractor shall at his own expense (except only where specific provision (if any) is made in the Contract for the reimbursement to the Contractor in respect of particular items), provide the following:

- (a) Provide to its Employees on the site of the works, all safety materials, clothing and equipment necessary to ensure full compliance with the provisions of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) as amended (hereinafter referred to as the Act) at all times, and shall institute appropriate and effective measures to ensure the proper usage of such safety materials, clothing and equipment at all times;
- (b) Provide, install and maintain all barricades, safety signage and other measures to ensure the safety of workmen and all persons in, on and around the site, as well as the general public;

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

Implement on the site of the works, such procedures and systems and keep all records as may be required to ensure compliance with the requirements of the Act at all times:

- (c) Implement all necessary measures so as to ensure compliance with the Act by all subcontractor engaged by the Contractor and their employees engaged on the works;
- (d) Full compliance with all other requirements pertaining to safety as may be specified in the Contract.

The Employer and the Engineer shall be entitled, although not obliged, to make such inspections on the site as they shall deem appropriate, for the purpose of verifying the Contractor's compliance with the requirements of the Act. For this purpose, the Contractor shall grant full access to the site of all parts of the site and shall co-operate fully in such inspections and shall make available for inspection all such documents and records as the Employer's and/or Engineer's representative may reasonably require.

Where any such investigations reveal, or where it comes to the Engineer's attention that the Contractor is in any way in breach of the requirements of the Act or is failing to comply with the provisions of this clause, the Engineer shall, in accordance with the Conditions of Contract, be entitled to suspend progress on the works or any part thereof until such time as the Contractor has demonstrated to the satisfaction of the Engineer, that such breach has been rectified.

The Contractor shall have no grounds for a claim against the Employer for extension of time and/or additional costs if the progress on the works or any part thereof is suspended by the Engineer in terms of this clause, and the Contractor shall remain fully liable in respect of the payment of penalties for the late completion in accordance with the Conditions of Contract should the Contractor fail to complete the Works on or before the specified due completion date in consequence of the suspension.

Persistent and repeated breach by the Contractor of the requirements of the Act and/or this clause shall constitute grounds for the Engineer to act in terms of the Conditions of Contract and for the Employer to cancel the Contract in accordance with the Conditions of Contract.

PSA 7 TESTING

PSA 7.1 PRINCIPLES

PSA 7.2 APPROVED LABORATORIES

REPLACE THE CONTENTS OF SUBCLAUSE 7.2 WITH THE FOLLOWING:

"Unless otherwise specified in the relevant specification or elsewhere in the Project Specification, the following shall be deemed to be approved laboratories in which design work, or testing required in terms of a specification for the purposes of acceptance by the Engineer of the quality of materials used and/or workmanship achieved, may be carried out:

- (a) Any testing laboratory certified by the South African National Accreditation Systems (SANAS) in respect of the nature and type of testing to be undertaken for the purposes of the Contract;
- (b) Any testing laboratory owned, managed or operated by the Employer or the Engineer;
- (c) Any testing laboratory established and operated on the Site by or on behalf of the Employer or the Engineer.
- (d) Any other laboratory that the Engineer approves in his absolute discretion."

PSA 8 MEASUREMENT AND PAYMENT

PSA 8.1 MEASUREMENT

PSA 8.1.1 Preliminary and General item or section

PSA 8.1.2.1 Contents

REPLACE THE LAST SENTENCE OF SUBCLAUSE 8.1.2.1(b) WITH THE FOLLOWING.

"Separate items will be scheduled to cover the fixed, value-related and time-related components of the Contractor's preliminary and general costs."

PSA 8.1.2.2 Tendered sums

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

REPLACE THE CONTENTS OF THIS SUBCLAUSE WITH THE FOLLOWING:

"Except only where specific provision is made in the Specifications and/or the Bill of Quantities for separate compensation for any of these items, the Contractor's tendered sums under items 8.3 and 8.4 shall collectively cover all charges for:

- * risks, costs and obligations in terms of the Conditions of Contract and of this standardized specification; head-office and site overheads and supervision; profit and financing costs; expenses of a general nature not specifically related to any item or items of the permanent or temporary work; providing such facilities on site as may be required by the Contractor for the proper performance of the Contract and for its personnel, including, but without limitation, providing offices, storage facilities, workshops, ablutions, services such as water, electricity, sewage and rubbish disposal, access roads and all other facilities required, as well as for the maintenance and removal on completion of the works of these facilities and cleaning-up of the site of the Contractor's establishment and reinstatement to not less than its original condition, and providing the facilities for the Engineer and his staff as specified in the Contract and their removal from the site on completion of the Contract."

PSA 8.2 PAYMENT

PSA 8.2.1 Fixed-charge and value-related items

REPLACE THE CONTENTS OF SUBCLAUSE 8.2.1 WITH THE FOLLOWING:

PSA 8.2.1.1 Fixed-charge items

"Payment of fixed charges in respect of item 8.3.1 will be made as follows:

- (a) **EIGHTY PER CENT (80%)** of the sum tendered will be paid when the facilities have been provided and approved;
- (b) The remaining **TWENTY PER CENT (20%)** will be paid when the works have been completed, the facilities have been removed and the site of the Contractor's establishment has been cleared and cleaned to the satisfaction of the Engineer.

No adjustment will be made to the sum tendered in respect of item 8.3.1 should the value of the works finally executed or the time for completion vary in any way from that specified in the tender.

PSA 8.2.1.2 Value-related items

Payment for the sum tendered under item 8.3.2 will be made in three separate instalments as follows:

- (a) The first instalment, which is 40% of the sum, will be paid when the Contractor has fulfilled all his obligations to date under this specification, the General Conditions of Contract and the Special Conditions of Contract, and when the value of work certified for payment, excluding materials on site and payments for preliminary and general items, is equal to not less than 5% of the total value of the work listed in the Bill of Quantities.
- (b) The second instalment, which is **40%** of the sum, will be made when the amount certified for payment, including retention moneys but excluding this second instalment, exceeds 50% of the tender sum.
- (c) The final payment, which is 20% of the sum, will be made when the works have been certified as completed and the Contractor has fulfilled all his obligations to date under this Specification, the General Conditions of Contract and the Contract Data.

Should the value of the measured work finally completed be more or less than the tender sum, the sum tendered under item 8.3.2 will be adjusted up or down in accordance with the provisions of Clause 50 of the Conditions of Contract, and this adjustment will be applied to the third instalment."

REPLACE THE CONTENTS OF SUBCLAUSE 8.2.2 WITH THE FOLLOWING:

"**Subject to the provisions** of subclauses 8.2.3 and 8.2.4, payment under item 8.4.1 (time-related item) will be made monthly in equal amounts, calculated by dividing the sum tendered for the item by the tendered Contract period in months, provided always that the total of the monthly amounts so paid for the item is not out of proportion to the value of the progress of the Works as a whole."

PSA 8.3 SCHEDULED FIXED-CHARGE AND VALUE-RELATED ITEMS

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

REPLACE THE CONTENTS OF SUBCLAUSE 8.3.1 WITH THE FOLLOWING:

"PSA 8.3.1 Fixed preliminary and general charges Unit: sum

The sums tendered shall include full compensation for all fixed-charge preliminary and general charges as described in subclause PSA 8.1.2.2. Payment will be made as described in subclause PSA 8.2.1.1.

PSA 8.3.2 Value-related preliminary and general charges Unit: sum

The sums tendered shall include full compensation for all value-related preliminary and general charges as described in subclause PSA 8.1.2.2. Payment will be made as described in subclause PSA 8.2.1.2."

PSA 8.4 SCHEDULED TIME-RELATED ITEMS

REPLACE THE CONTENTS OF SUBCLAUSE 8.4 WITH THE FOLLOWING:

"PSA 8.4.1 Time-related preliminary and general charges Unit: sum

The sum tendered shall include full compensation for all time-related preliminary and general charges as described in subclause PSA 8.1.2.2. Payment will be made as described in subclause PSA 8.2.2."

PSA 8.5 SUMS STATED PROVISIONALLY BY THE ENGINEER

REPLACE THE CONTENTS OF SUBCLAUSE 8.5 WITH THE FOLLOWING:

"PSA 8.4.5 Works executed by the Contractor Unit:

The Contractor will be reimbursed in substitution of the Provisional Sums (if any) allowed in the Bill of Quantities for work to be executed by the Contractor, in the amounts determined in accordance with the provisions of Clause 45 of the Conditions of Contract.

PSA 8.5.2(a) Works executed by Nominated Subcontractors

(a) Work to be executed by a Nominated Subcontractor.....Unit: Prov Sum

(b) Overheads, charges and profit on item (a) above Unit: % or sum

Subitems (a) and (b) will be provided in the Bill of Quantities for each different Nominated. The Contractor shall be Subcontract included in the Contract.

The Contractor shall be reimbursed under subitem (a), in substitution of the respective Provisional Sums (if any) allowed in the Bill of Quantities, the amounts actually paid or payable by the Contractor to the respective Nominated Subcontractors, in accordance with the provisions of Clause 45 of the Conditions of Contract.

The Contractor shall be paid under subitem (b), either

(a) where the unit of measurement for subitem (b) was specified as being a percentage, the respective percentage, as stated by the Contractor in its tender, of the amount certified by the Engineer for payment under the related subitem (a), all in accordance with the provisions of Clause 45.1.2.1.1 of the Conditions of Contract, or

(b) where the unit of measurement for subitem (b) was specified as being a lump sum, an amount which is in the same proportion to the amount certified for payment under subitem (a) and the tendered lump sum is to the amount of the Provisional Sum stated under subitem (a) in accordance with the provisions of Clause 45.1.2.1.2, provided always that where the Contractor has failed for any reason to insert a percentage or sum (as applicable) for subitem (b) in its tender, or where no provision was made in the tender documents for tenderers to make any such entry, the Contractor will be paid an amount equal to SEVEN AND NE HALF PER CENT (7,5%) of the amount actually certified by the Engineer for payment under subitem (a).

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

The percentage or sum (as applicable) paid under subitem (b) as aforesaid, shall be deemed to include for full and final compensation to the Contractor for all costs as may be incurred and all charges and profits associated with the engagement, supervision, administration and management of the Nominated Subcontractor required of him in fulfilling its obligations under the Contract as the Principal Contractor."

PSA 8.6 PRIME COST ITEMS

REPLACE SUBCLAUSE 8.6 WITH THE FOLLOWING:

"PSA 8.6 PRIME COST SUMS

- (a) Description of item to which Prime Cost Sum applies Unit: PC Sum
- (b) Charge required by Contractor on subitem (a) above Unit: %

Subitems (a) and (b) will be provided in the Bill of Quantities for each different item to which a Prime Cost Sum applies.

The Contractor shall be reimbursed under subitem(s) (a) in substitution of the respective Prime Cost Sums included in the Contract, the actual price(s) paid or payable by him in respect of the goods, materials or services supplied, but excluding any charges for the Contractors labour, profit, carriage, establishment or other charges related to such goods, services or materials.

The Contractor shall be paid under subitem (b), the respective percentage, as stated by the Contractor in his tender, of the amount certified by the Engineer for payment under the related subitem (a). The percentages tendered by the Contractor for each respective subitem (b) included in the Bill of Quantities shall be deemed to be in full and final compensation to the Contractor in respect of any charge by the Contractor for labour, carriage profit, establishment and for any other charges related to the goods, services or materials supplied under the related subitem (a).

If the Contractor shall have omitted within his tender to insert a tendered percentage under subitem (b), or tendered a zero percentage, the Contractor's tendered rate for subitem (b) shall be deemed to be zero and the Contractor shall not be entitled to any payment under subitem (b).

Note in connection with additional tests required by the Engineer:

When a PC sum is included in the Bill of Quantities for additional tests required by the Engineer, the Contractor shall be responsible for both the cost of normal testing as described in C3.4.2.5(b) of the Project Specifications and for the cost of any additional test that indicates that the specifications have not been complied with."

"PSA 8.9 COMPLIANCE WITH OHS ACT AND REGULATIONS

(INCLUDING THE CONSTRUCTION REGULATIONS 20031 Unit: sum

The tendered sum shall include full compensation to the Contractor for compliance with all the requirements of the OHS Act and Regulations (including the Construction Regulations 2003) at all times for the full duration of the Contract, as described in C3.6.1. The successful tenderer shall provide the Engineer with a complete breakdown of this tendered sum.

This sum will be paid to the Contractor in equal monthly amounts subject to proper/substantial compliance.

PSA 8.10 QUALITY ASSURANCE AND MANAGEMENT PLAN Unit: sum

The tendered sum shall include full compensation for compiling and submitting an ISO9000 quality assurance and management plan or similar to the Engineer and for maintaining, implementing, monitoring, recording and complying to the approved plan for the full duration of the Contract. The sum shall include for all specialists required to fulfil the above functions.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

Payment will be made on a successful and approved progress basis.

PSA 8.11 COMPLIANCE WITH THE ENVIRONMENTAL

MANAGEMENT PLAN.....Unit: sum

PSA 8.5.4 FORMAL TRAINING

- (a) Safety rep training.....Unit: hours
- (b) Project specific technical skills training (manhole construction, pipe laying, etc) Unit hours
- (c) Generic and management skills training (storeman, safety, environmental, hygiene, etc) Unit: hours
- (d) Training venue Unit: sum
- (e) Remuneration of workers undergoing skills training Unit: hours
- (f) Contractor's handling costs, profit and all other charges in respect of subitem (a) to (e) above Unit: percentage (%)

Formal training of local labour shall be accredited NQF level applicable training in various skills e.g. life skill training, technical skill training, management skill training, etc, and workers shall be trained throughout the duration of the Contract.

The rates or sums tendered for the scheduled training items shall include full compensation to the Contractor for all training course fees, venues, transport, wages during training, profit, disbursements, stationery and all other material required for the training.

The Contractor shall only be reimbursed for the actual hours of formal training completed by the workers at the rates/sums tendered, plus a percentage to cover his charges and profits.

The accredited training provider must be approved by the Employer prior to any training of workers. Refer to C3.4.2.5 (i) (iii) for 'Training of Targeted Labour.'

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

PSC SITE CLEARANCE

PSC 3 MATERIALS

PSC 3.1 DISPOSAL OF MATERIAL

ADD THE FOLLOWING:

"The Contractor shall obtain his own dumping sites for the disposal of material and all transport costs shall be included in the rates tendered for site clearance."

PSC 5 CONSTRUCTION

PSC 5.1 AREAS TO BE CLEARED AND GRUBBED

ADD THE FOLLOWING.

'Pipeline routes shall be cleared to a distance of 1,5 m on both sides of the pipeline centre line. Route pegs or markers shall not be destroyed or damaged during clearing operations.'

PSC 5.2 CUTTING OF TREES

PSC 5.2.3 Preservation of trees

PSC 5.2.3.2 Individual trees

REPLACE THE LAST SENTENCE WITH THE FOLLOWING:

'An amount of R3 500.00 will be deducted from moneys due to the Contractor as a penalty for every tree that is damaged or removed unnecessarily.' Once trees are removed, they need to be replanted if needs be.

PSC 5.5 RECLEARING OF VEGETATION

ADD THE FOLLOWING:

'When areas have to be recleared on the written instructions of the Engineer, such reclearing shall be carried out at the Contractors own cost and the Contractor is therefore advised not to clear the areas too soon.'

PSC 8 MEASUREMENT AND PAYMENT

PSC 8.2 PAYMENT

PSC 8.2.1 Clear and grub

REPLACE THE FIRST LINE WITH THE FOLLOWING:

'The area designated by the Engineer to be cleared and grubbed will be measured in square metre to the nearest square metre.'

ADD THE FOLLOWING ITEMS IN SUBCLAUSE 8.2:

"PSC 8.2.11 Take down and re-erect existing fences..... Unit: m

The rate shall cover the cost of taking down the fences, coiling wire, sorting, stacking and guarding all materials,

the cost of loading, transporting and off-loading such materials, the cost of re-erecting the fence in its original position using the dismantled material, the cost of temporary bracing of the fencing sections not taken down and the cost of appurtenant materials that may be required to restore the fence to its original condition before dismantling.

PSC 8.2.10 Remove topsoil to spoil site furnished by Contractor..... Unit: cubic metre (m³)

The tendered rate shall include full compensation for removing topsoil to a depth of '150 mm and for loading and transporting the material to spoil sites furnished by the Contractor.'

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

PSD **EARTHWORKS**

PSD 2 **INTERPRETATIONS**

PSD 2.1 **SUPPORTING SPECIFICATIONS**

REPLACE SUBCLAUSE 2 1 2 WITH THE FOLLOWING:

"PSD 2.1.2 Any of the other SANS 1200 specifications may form part of the Contract documents."

PSD 2.3 **DEFINITIONS**

REPLACE THE WORD AND THE DEFINITION FOR 'Borrow' WITH THE FOLLOWING:

"Borrow material: Material, other than material obtained from excavations required for the works, obtained from sources such as borrow pits or the authorised widening of excavations 'Borrow shall have a corresponding meaning."

REPLACE THE DEFINITION FOR "Specified density" WITH THE FOLLOWING:

"Specified density: The specified dry density expressed as a percentage of modified AASHTO dry density."

REPLACE THE DEFINITION FOR "Stockpile" WITH THE FOLLOWING:

"Stockpile (verb): The process of selecting and, when necessary, loading, transporting and off-loading material in a designated area for later use for a specific purpose'

ADD THE FOLLOWING DEFINITIONS:

"Commercial source: A source of material provided by the Contractor, not the Employer, and including any borrow pit, provided by the Contractor

Fill: An embankment or terrace constructed of material obtained from excavations or borrow pits. In roads it includes the earthworks up to the underside of the selected subgrade level.

Fill (material): Material used for the construction of an embankment or terrace

Roadbed: The natural in situ material on which the fill or, in the absence of fill, the pavement layers are constructed"

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

PSD 3 MATERIALS

PSD 3.1 CLASSIFICATION FOR EXCAVATION PURPOSES

PSD 3.1.1 Method of classifying

ADD THE FOLLOWING:

"The classification of material other than 'soft excavation' shall be agreed upon before excavation may commence.

The Contractor shall immediately inform the Engineer if and when the nature of the material being excavated changes to such an extent that a new classification is warranted for further excavation. Failure on the part of the Contractor to advise the Engineer in good time shall entitle the Engineer to reclassify, at his discretion, such excavated material."

PSD 3.2.3 Material suitable for backfill or fill against structures

REPLACE THE CONTENTS OF THIS SUBCLAUSE WITH THE FOLLOWING..

"Material used for backfill behind structures shall generally be the material excavated, subject to the following conditions:

- (a) The material shall not contain an excessive number of stones retained on a 50 mm sieve;
- (b) The material shall not contain large clay lumps that do not break up under the action of the compaction equipment; and
- (c) The liquid limit of the material shall not exceed 40, neither shall the PI exceed 18."

PSD 5 CONSTRUCTION

PSD 5.1 PRECAUTIONS

PSD 5.1.1 Safety

PSD 5.1.1.1 Barricading and lighting

REPLACE 'Machinery and Occupational Safety Act, 1983 (Act 6 of 1983)' WITH "Occupational Health and Safety Act, 1993 (Act 85 of 1993)".

PSD 5.1.1.2 Safeguarding of excavations

REPLACE "Machinery and Occupational Safety Act" WITH "Occupational Health and Safety Act, 1993 (Act 85 of 1993)".

PSD 5.1.2 Existing services

PSD 5.1.2.2 Detection, location and exposure

REPLACE THE CONTENTS OF SUBCLAUSE WITH THE FOLLOWING:

"The exposure by the Contractor of underground services, as required in terms of subclause 5.4 of SANS 1200 A (as amended) shall be carried out by careful hand excavation at such positions and to such dimensions as are agreed to by the Engineer.

Unless otherwise instructed or agreed by the Engineer, no service shall be left exposed after its exact position has been determined and all excavations carried out for the purposes of exposing underground services shall be promptly backfilled and compacted to the following densities:

- a) In roadways: 93% Mod AASHTO density; and

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

b) In all other areas: 93 % Mod AASHTO density.

Where hand excavations to expose underground services have to be carried out in roadways, the Contractor shall reinstate the road layerworks in accordance with the provisions of subclause 5.9 of SANS 1200 DB.

Payment in respect of exposing the services by means of hand excavation as described above, will be made in accordance with subclause PSD 8.3.8.1."

PSD 5.1.2.3 Protection of cables

REPLACE SUBCLAUSE 5.1.2.3 WITH THE FOLLOWING:

"5.1.2.3 Protection during construction

Further to the requirements of subclause 5.4.2 of SANS 1200 A (as amended), major excavating equipment and other plant shall not be operated dangerously close to known services. Where necessary, excavation in close proximity to known services shall be carefully carried out with suitable hand tools, excluding picks wherever their use could damage the services. No additional payment will apply to such more difficult work.

Should any service not being a known service be discovered or encountered during the course of the Contract, the Contractor shall, in addition to complying with the requirements of subclause 5.4.2 of SANS 1200 A (as amended), immediately notify the Engineer thereof and implement such measures as will prevent damage of such service or, if it was damaged in the course of discovery, will prevent and minimize the occurrence of any further damage occurring."

PSD 5.1.2.4 Negligence

DELETE SUBCLAUSE 5.1.2.4.

PSD 5.1.6 Road traffic control

DELETE THE SECOND SENTENCE OF SUBCLAUSE 5.1.6

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

PSD 5.2 METHODS AND PROCEDURES

PSD 5.2.2 Excavation

PSD 5.2.2.1 Excavation for general earthworks and for structures

ADD THE FOLLOWING TO PARAGRAPH (b):

'When the nature of the material precludes the above procedure, additional excavations shall be carried out to provide working space for the erection of formwork. The tendered rate for item 8.3.5 will be deemed to include the cost of a working width of 600 mm, but the Contractor may excavate a greater working width at no additional cost to the Employer.'

REPLACE THE FIRST SENTENCE OF PARAGRAPH (e) WITH THE FOLLOWING:

'Where excavations have been carried below the authorised levels, the Contractor shall backfill such excavations to the correct level with approved gravel compacted to 93 % of modified AASHTO density or to the density of the surrounding material, whichever is the higher density.

Where excavations for structures have been carried out in hard material, the Engineer may direct that over-excavation be backfilled with weak concrete if there is a danger of settlement or differential settlement of the foundations.

Where the sides of excavations against which concrete is to be cast have been over-excavated or have collapsed partially, the Contractor shall retrim the excavations if necessary and, unless other remedial measures are agreed to by the Engineer, shall cast the concrete for the structure, including the additional concrete that may be required as a result of the over-excavation or partial collapse. The cost of the additional concrete or remedial measures shall be for the Contractor's account.'

PSD 5.2.2.3 Disposal

REPLACE THE SECOND SENTENCE WITH THE FOLLOWING

'The Contractor shall provide all necessary spoil sites for the spoiling of all surplus and unsuitable materials and shall make the necessary arrangements with the owner of the site where the material is disposed of, and pay all charges and levies as may be applicable for the use of such spoil sites.

Every spoil site provided by the Contractor shall be approved by the local authority in whose area it is located, and the spoiling shall comply with the applicable statutory and municipal regulations as well as the requirements of the owner of the spoil site

Payment to the Contractor in respect of locating and making arrangements for suitable spoil sites and spoiling material at **the** such sites will be made separately in the applicable items as scheduled.'

ADD THE FOLLOWING SUBCLAUSE IN SUBCLAUSE 5.2.2:

"PSD 5.2.2.4 Selection and stockpiling

Approval or designation of the material in a particular borrow pit or excavation for a particular purpose does not imply that all the material in the borrow pit or excavation is suitable for the particular purpose to which the said approval or designation relates, nor that all material in the borrow pit or source should be used for the particular purpose.

The Contractor shall select suitable material from that borrow pit or source, discard unsuitable material and reserve material. The Contractor shall select suitable material from that borrow pit or source, discard unsuitable material and reserve material for other purposes as necessary.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

to which the said approval or designation relates, nor that all material in the borrow pit or source should be used for the particular purpose. The Contractor shall select suitable material from that borrow pit or source, discard unsuitable material and reserve material for other purposes as necessary.

The Contractor shall organise and carry out his operations in such a manner as will prevent the contamination of suitable embankment and backfill material with unsuitable materials. Any excavated material which becomes, in the Engineers opinion, unsuitable for use in embankments or backfill as a result of contamination, shall be disposed of in a manner acceptable to the Engineer and shall be replaced by the Contractor with materials acceptable to the Engineer, all at the Contractors cost.

When required, or when ordered by the Engineer, material shall be stockpiled for later use. The additional costs for stockpiling material shall be separately paid to the Contractor in the applicable items as scheduled.'

PSD 5.2.5 Transport for earthworks

REPLACE THE CONTENTS OF SUBCLAUSE 5.2.5 WITH THE FOLLOWING:

'The transport of all excavated materials, irrespective of the distance and source, shall be deemed to be free-haul, the cost of which is included in the Contractor's tendered rates and prices for the excavation of the materials. No separate compensation shall apply for the transportation of excavated materials.'

PSD 7 TESTING

PSD 7.2 TAKING AND TESTING OF SAMPLES

REPLACE THE CONTENTS OF THIS SUBCLAUSE WITH THE FOLLOWING:

'The Contractor shall arrange with the approved independent laboratory engaged by the Contractor in terms of C3.4.2.5(b) of the Project Specifications to carry out sufficient tests on a regular basis as agreed between him and the Engineer to determine whether the degree of compaction, and, where applicable, the quality of materials used, comply with the Specifications and shall submit the results of these tests to the Engineer in a form approved by him.

The compaction requirements for fills shall be deemed complied with when at least 75% of the dry-density tests on any lot show values equal to or above the specified density and when no single value is more than five percentage points below the specified value.'

PSD 8 MEASUREMENT AND PAYMENT

PSD 8.3 SCHEDULED ITEMS

PSD 8.3.1 Site preparation

REPLACE SUBCLAUSES 8.3.1.1 AND 8.3.1.2 WITH THE FOLLOWING:

Where site preparation such as clearing, grubbing, the removal of large trees or the removal and stockpiling of topsoil is required, the provisions and scheduled items of SABS 1200 C shall apply.'

PSD 8.3.2 Bulk excavation

REPLACE THE CONTENTS OF ITEM WITH THE FOLLOWING:

a) *Excavate in all materials and use for embankment or backfill as ordered,*

a) *Necessary excavations unit: m³*

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

b) *Designated borrow pits* unit: m³

c) *Commercial sources* unit: m³

The unit of measurement shall be the cubic metre measured in place in accordance with subclause 8.2 of SANS 1200 D.

Separate items will be scheduled for embankments and backfills for different parts of the works.

The tendered rates shall cover the cost of complying with all the precautions required in terms of subclause 5.1 of SANS 1200 D (as amended), in addition to the cost of excavating in all materials, basic selecting, loading, transporting, off-loading, spreading or backfilling, watering, compacting, final grading, complying with the requirements for tolerances, providing for testing, finishing and tidying, all in accordance with the specifications.

In addition to the foregoing, the tendered rate for subitem (b) shall further include for the costs of royalties (if applicable), whilst the tendered rate for subitem (c) shall also include for the costs of finding a source of suitable material, for making arrangements with the owner of the source, for procuring the material, for the payment of all requisite royalties, charges or damages, and for transporting the material to the site regardless of the distance involved. No payment will be made for the removal of overburden or stockpiling at the commercial source and no extra over payment shall apply for excavating in intermediate, hard or boulder material."

(b) Excavate in all materials and dispose
unit m³

The unit of measurement shall be the cubic metre of material excavated, measured in place in accordance with subclause 8.2 of SANS 1200 D.

The tendered rates shall cover the cost of complying with all the precautions required in terms of subclause 5.1 of SANS 1200 D (as amended), in addition to the cost of excavating, basic selecting, loading, transporting, off-loading at the spoil site, maintaining and finishing the spoil site, all in accordance with the specifications.

c) **Extra over subitems PSD 8.3.2(a)(1), PSD 8.3.2(a)(2) and PSD 8.3.2(b) for:**

(i)	Intermediate excavation	Unit: m ³
(ii)	Hard rock excavation	Unit: m ³
(iii)	Boulder excavation, Class A	Unit: m ³
(iv)	Boulder excavation, Class A	Unit: m ³

The rate shall cover the additional cost of the operations enumerated in subclauses 8.3.2.(a) and 8.3.2.(b) above for any portion of the excavation that is classified as intermediate, hard rock, boulder excavation class A or boulder excavation class B as applicable. (See Drawing D-2.).

Extra over item PSD 8.3.2(c)(2) for hand excavation or other method (excluding blasting) to remove rock outcrops or rock underbreak after bulk excavation to form level site (alternative for soilcrete backfilling in rock overbreak) Unit: m³

The unit shall be the cubic metre (including bulking of volume) of rock outcrops removed by hand or other labour intensive method.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

The rate shall cover all additional costs of the operations including labour, plant, equipment, transport etc to break, excavate, load and removal off site of small rock outcrops not successfully removed during the bulk excavation operations.

PSD 8.3.3 Restricted excavation

REPLACE THE WORDS in 1 m increments' AT THE END OF THE FIRST SENTENCE OF SUBITEM

(a) WITH In the increments indicated in the Bill of Quantities".

REPLACE In 5.2.2.1 — 5.2.2.3 (inclusive)" AT THE END OF SUBCLAUSE (a) WITH "in subclauses 5.2.2.1 to 5.2.2.5 (inclusive)!".

ADD THE FOLLOWING SUB-SUBITEM:

"(c) Extra over subitem 8.3.3 (a) for hand excavation Unit: m'

This item shall apply to hand excavation ordered by the Engineer or when the Engineer considers that, owing to circumstances, excavation by mechanical excavators is not practicable. It shall not apply to hand excavation for trimming or finishing an excavation made by mechanical means.

The tendered rate shall include full compensation for the additional cost of excavating by means of hand tools."

PSD 8.3.4 Importing of materials

DELETE SUBITEM (a) OF 8.3.4.

PSD 8.3.6 Overhaul

DELETE SUBCLAUSE 8.3.6.

PSD 8.3.8 Existing services

PSD 8.3.8.1 Location

REPLACE ITEM 8.3.8.1 WITH THE FOLLOWING:

'8.3.8.1 Hand excavation for locating and exposing existing services:

a) In roadways Unit: m³

b) In all other areas Unit: m³

The unit of measurement shall be the cubic metre of material excavated, measured in place according to the authorised or actual dimensions of the excavation, whichever is the lesser.

The tendered rates shall cover the cost of excavating in all materials by means of hand tools within authorised dimensions and at locations approved by the Engineer in accordance with the requirements of subclause PSA 5.4.1 for all precautionary measures necessary to protect the services from damage during excavation and backfilling, and for subsequent backfilling and compacting. Compaction of material in all areas except in roadways shall be to 93 % of the modified AASHTO density.

The tendered rate for hand excavation in roadways shall include compensation for compacting excavated or selected backfill material to 93% of modified AASHTO density. Reinstating layerworks and surfacing shall be measured and paid for in terms of SANS 1200 DB.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

The tendered rates shall also include for keeping excavations safe, for dealing with surface and subsurface water, for removing surplus excavated material from the site, for transporting all material and for supplying adequate supervision during both excavation and backfilling operations.'

PSD 8.3.10 Topsoiling

CHANGE THE UNIT TO 'm³' AND REPLACE THE CONTENTS OF THIS ITEM WITH THE FOLLOWING:

'The unit of measurement shall be the cubic metre and the quantity shall be calculated from the authorised dimensions.

The tendered rate shall include loading of the topsoil from stockpiles, transporting, off-loading, spreading, shaping and lightly compacting the topsoil."

ADD THE FOLLOWING ITEMS IN SUBCLAUSE 8.3.

"PSD 8.3.14 Extra over items PSD 8.3.2.(a)(1) and PSD 8.3.3 for temporary stockpiling Unit: m³

The unit of measurement shall be the cubic metre of material from necessary excavations, temporarily stockpiled by the Contractor on the instructions of the Engineer, before being used in embankments or backfill. Measurements shall be taken in place in compacted embankment or backfill as the case may be.

The tendered rate shall include for the costs, additional to those provided for in PSD 8.3.2(a)(1) and PSD 8.3.3, of off-loading, forming and maintaining the stockpile for as long as is required, reloading and transporting.

Payments to the Contractor under this item will only be made in respect of that material stockpiled on the instructions of the Engineer (which instruction shall state specifically that payments for such stockpiling will be paid for under this item) and no payments will be made to the Contractor under this item in respect of materials stockpiled by the Contractor on his own volition, nor for materials necessarily stockpiled by the Contractor in consequence of the sequence of operations adopted by him in the course of executing the works, whether such stockpiling was avoidable or otherwise.

PSD8.3.15 Extra over items PSD 8.3.2(b) and PSD 8.3.3 for disposing spoil material on a site provided by the Contractor Unit: m³

The unit of measurement shall be the cubic metre measured in accordance with subclause 8.2 of SABS 1200 D of surplus and/or unsuitable material disposed of, on the instruction of the Engineer, at a spoil site or spoil sites provided by the Contractor.

The tendered rate shall include full compensation for the additional cost of providing a spoil site or other means of disposing of surplus spoil material, for transporting the material regardless of the distance involved, for acceptance charges for such material and for all other incidental costs to dispose of the spoil material.'

PSDB EARTHWORKS (PIPE TRENCHES)

PSDB 3 MATERIALS

PSDB 3.5 BACKFILL MATERIALS

ADD THE FOLLOWING PARAGRAPHS TO SUBCLAUSE 3.5:

- (c) Cement-stabilized backfilling

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

Backfilling shall, where directed by the Engineer, be stabilized with 5% cement. The aggregate shall consist of approved soil or gravel containing stones not bigger than 38 mm and with a plasticity index not exceeding 10.

The soil or gravel shall be mixed with 5% cement and shall be compacted in layers of 100 mm thick to 93 % of modified AASHTO density.

(d) Soilcrete backfilling

The aggregate for soilcrete shall be mixed with 5% cement and shall consist of approved soil or gravel containing stones not bigger than 38 mm and with a plasticity index not exceeding 10. The soil or gravel shall be mixed in a concrete mixer with the cement and enough water to acquire a consistency that allows the mixture to be placed with vibrators to fill all voids between the pipe and the sides of the trench. Shuttering shall be used where necessary,"

PSDB 3.7 SELECTION

REPLACE THE WORDS "if he so wishes" IN THE FIRST LINE OF THE SECOND PARAGRAPH WITH THE WORDS "at his own cost".

PSDB 5 CONSTRUCTION

Except only where the Engineer has included in the Bill of Quantities, particular payment items specifically therefor, the Contractor will not be paid directly for the construction and maintenance of temporary access roads and/or the provision and maintenance of bridges as aforementioned, and the costs thereof shall be deemed included in the Contractor's tendered rates for excavation.'

PSDB BACKFILL

PSDB 5.6.3 Disposal of soft excavation material

REPLACE THE WORDS "unless otherwise required in the project specification." AT THE END OF SUBCLAUSE 5.6.3 WITH:

"... or to spoil in accordance with the requirements of subclause PSD 5.2.2.3, as instructed by the Engineer."

PSDB 8 MEASUREMENT AND PAYMENT

PSDB 8.3 SCHEDULED ITEMS

PSDB 8.3.2 Excavation

- a) Excavate in all materials, for trenches, backfill compact and dispose of surplus material

REPLACE 'of 1,0 m" IN THE FIRST SENTENCE OF 8.3.2(a) WITH: "as specified in the Bill of Quantities.'

- b) Extra over item (a) above for:

ADD THE FOLLOWING AT THE END OF THE EXISTING SUB/ITEM 2:

"No payments will be made under subitems (1) and (2) in respect of any materials measured and paid for under subitem 3 below."

AND ADD THE FOLLOWING NEW SUBITEMS .2(b):

(a) Hand excavation where ordered by the Engineer	
(b) Soft material	Unit: m ³
(c) Intermediate material	Unit: m ³
(d) Hard material	Unit: m ³

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

The unit of measurement shall be the cubic metre of material, measured in place according to the authorised dimensions, which was excavated by hand on the specific prior written instructions of the Engineer; provided always that the Engineer's said instruction shall have stated that measurement and payment for such hand excavation will be in accordance with this item.

The tendered rate shall include full compensation for the additional cost, effort and time resulting from excavating in the respective materials using hand methods only.

The Engineer shall not be obliged to authorise payment under this item in respect of any hand excavation carried out (whether ordered in writing or otherwise), which hand excavation was in any case necessary to achieve compliance by the Contractor with his obligations under the Contract to

- (i) utilize construction appropriate to the nature of the specific parts of the works; and/or
- (ii) protect existing structures and/or services; and/or
- (iii) comply with all prevailing legislation and regulations.

- (4) Backfill stabilized with 5% cement where directed
by the Engineer Unit: m³

The unit of measurement shall be the cubic metre of backfill material, measured in place after compaction according to the authorised dimensions, which was stabilized on the Engineer's instructions in accordance with subclause PSDB 3.5(c).

The tendered rate shall include full compensation for supplying the cement and for selecting, mixing, backfilling and compacting the stabilized material to 93 % of modified AASHTO density.

- (5) Soilcrete backfill where directed by the Engineer Unit: m³

The unit of measurement shall be the cubic metre of soilcrete placed on the Engineer's instructions in accordance with subclause PSDB 3.5(d), measured in place according to the authorised dimensions.

The tendered rate shall include full compensation for supplying the cement and for selecting, mixing and placing the soilcrete as well as for the cost of shuttering if required.

PSG 5.2 FORMWORK

PSG 5.2.2 Preparation for formwork

ADD THE FOLLOWING:

'Construction joints shall be positioned as shown on the drawings.'

PSG 5.2.5 Removal of formwork

ADD THE FOLLOWING SUBCLAUSE

- "PSG 5.2.5.7 The Contractor shall make provision for the continued support of beams and slabs while the formwork is being removed and/or for back propping of beams and slabs."

PSG 5.3 HOLES, CHASES AND FIXING BLOCKS

ADD THE FOLLOWING

'Cover blocks for reinforcing and fixtures may be placed into the concrete provided that neither the strength nor any other desirable characteristic (such as the appearance) of the concrete section is affected or impaired in the opinion of the Engineer.'

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

The holes or cavities left by ferrule heads in the concrete of water-retaining structures shall be filled with an approved non-shrink grout applied strictly in accordance with the manufacturers specifications.'

PSG 5.4 PIPES AND CONDUITS

ADD THE FOLLOWING:

'All pipes passing through concrete floors, walls or slabs shall be cast into a concrete member simultaneously with the casting of the member. Openings for pipes shall only be left in concrete members when so directed by the Engineer or when shown on the drawings. Pipes shall be installed in such openings according to the details shown on the drawings.

If watertightness is a requirement where pipes are cast into walls, floors and slabs, the Contractor shall ensure watertightness where smooth-surfaced pipes are used by using an approved method such as tape wrapping the pipes prior to casting in. The cost of such method will be deemed to be included in the rates tendered for item PSG 8.10.

PSG 5.5 CONCRETE

PSG 5.5.1 Quality

PSG 5.5.1.5 Durability

The exposure conditions of the concrete are classified as "severe".

PSG 5.5.1.7 Strength concrete

ADD THE FOLLOWING:

"The concrete mixes shall be designed by the Portland Cement Institute or a similar approved laboratory.

The minimum cement content shall be 325 kg/m'. The maximum water cement ratio shall be 0,55 for ordinary Portland cement (OPC), CEM I 42,5 according to SANS 50197-1, or 0,50 for ordinary Portland cement blended with pulverized fuel ash (**PFA**).

The cement content shall not exceed 400 kg/m' OPC in reinforced concrete or 450 kg/m³ OPC blended with **PFA** in reinforced concrete."

PSG 5.5.3 Mixing

PSG 5.5.3.2 Ready-mixed concrete

ADD THE FOLLOWING:

"Ready-mixed concrete may be used on the Site. The Contractor shall take samples for testing from every load delivered to the Site."

PSG 5.5.5 Placing

ADD THE FOLLOWING:

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

"Concreting of walls between horizontal construction joints shall be carried out in both directions from a point on the wall in order to close the gap with fresh concrete.'
construction joints and the surface of the floor shall be prepared as described for construction joints.

Should the Contractor's method of construction necessitate the placing of a construction or other joint in a position not shown on the drawings, such method of construction and position of the joint shall be approved by the Engineer in writing. The cost of such joint shall be included in the tendered rates and shall include scabbling of the concrete where steel reinforcement is continuous.

The walls shall be cast in lifts of a height that permits each lift to be poured without interruption in one continuous operation during normal working hours.

It is the Contractor's responsibility to ensure that construction joints are watertight. The Contractor's proposed method for ensuring the watertightness of such joints shall be submitted to the Engineer for his approval.

For construction joints at kickers all additional costs for concrete, preparation, etc will be deemed to be included in the rates tendered for concrete in walls or sides and kicker joints or construction joints will not be measured separately."

PSG 5.5.8 Curing and protection

ADD THE FOLLOWING:

"The curing methods of retaining the formwork in place or covering with a waterproof membrane are strongly recommended. Concrete will not be paid for unless properly cured and proof of curing is continuously visible on site.'

PSG 5.5.10 Concrete surfaces

ADD THE FOLLOWING SUBCLAUSE:

"5.5.10.4 Where the surfaces of the concrete are to be additionally hardened or protected, the positions of such surfaces and the method to be used will be shown on the drawings and will be scheduled. Materials or products with a ferrous content will not be allowed."

PSG 5.5.11 Watertight concrete

ADD THE FOLLOWING:

'The minimum cement content shall be 325 kg/m'. The maximum water.cement ration shall be 0,55 for ordinary Portland cement (OPC), CEM I 42,5 according to SANS 50197-1, or 0,50 for ordinary Portland cement blended with pulverized fuel ash (PFA).

The cement content shall not exceed 400 kg/m³ OPC in reinforced concrete or 450 kg/m' OPC blended with PFA in reinforced concrete."

ADD THE FOLLOWING SUBCLAUSE:

PSG 5.5.16 Soilcrete

Where soilcrete is specified for filling under floor slabs, the soilcrete shall comply with the requirements of subclause PSDB 3.5(d) of section 1200 DB as amended and shall be placed as specified in the subclause."

"PSG 5.5.17 Applied loads

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

No crushed-stone covering or any other loads shall be placed on the roof of the structure before the concrete

PSG 5.5.18 Pipes and conduits

All pipes passing through concrete floors, walls or slabs shall be cast into the concrete member simultaneously with the casting of the member. Openings for pipes shall only be left in the concrete members when so directed by the Engineer or when shown on the drawings. Pipes shall be installed in such openings according to the details shown on the drawings.

If watertightness is a requirement where pipes are cast into walls, floors and slabs, the Contractor shall ensure watertightness where smooth-surfaced pipes are used by using an approved method such as tape wrapping the pipes prior to casting in. The cost of such method will be deemed to be included in the rates tendered for in item PSG 8.10."

PSG 6 TESTS

PSG 6.1 FACILITIES AND FREQUENCY OF SAMPLING

PSG 6.1.1 Facilities

ADD THE FOLLOWING:

The Contractor shall provide sufficient storage capacity for the concrete cubes and shall arrange to have them tested by an approved laboratory.

The cost of all testing, including the cost of sampling, storage and transport included in the rates tendered for concrete work."

PSG 7.3 ACCEPTANCE CRITERIA FOR STRENGTH CONCRETE

Test results obtained from the supplier of ready-mixed concrete will not be accepted for evaluation in terms of subclause 7.3, but for testing shall be taken of such concrete at the print of placing.

PSG 8 MEASUREMENT AND PAYMENT

PSG 8.1 MEASUREMENT AND RATES

PSG 8.1.1 Formwork

DELETE "or splays over 20 mm x 20 mm" FROM THE FIRST LINE OF PARAGRAPH 8.1.1.2.

ADD THE FOLLOWING TO PARAGRAPH 8.1.1.2:

"Splays up to and including 25 mm x 25 mm will not be measured separately and will be deemed to be included in the formwork costs."

ADD THE FOLLOWING PARAGRAPHS:

- "8.1.1.7 For construction joints at kickers, all additional costs for formwork to edges up to 300 mm high will be deemed to be included in the rates tendered for vertical formwork to sides of walls and will not be measured separately in narrow widths.
- 8.1.1.8 No formwork will be measured to edges of blinding layers under structures, and the cost thereof (if needed) will be deemed to be included in the rates tendered for concrete in blinding layers.
- 8.1.1.9 Back-shuttering or formwork to top revealed surfaces of sloping or conical formwork will only be measured to surfaces of over 40° and up to 85° to the horizontal.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

8.1.1,10 Formwork to horizontal surfaces in pump stations, valve chambers, manholes or sumps can either be removed through the manhole cover opening or the Contractor may use permanent formwork at his own cost as no claims in this regard will be considered "

PSG 8.1.2 Formwork

REPLACE THE CONTENTS OF THIS SUBCLAUSE WITH THE FOLLOWING:

The unit of measurement for steel bars shall be the ton of reinforcement in place, in accordance with the drawings or as authorised by the Engineer.

PSL MEDIUM-PRESSURE PIPELINES

HDPE Pipes

Specification

The HDPE pipes must be manufactured to SANS ISO 4427. These pipes are grouped in different pressure classes of PE 63, PE 80 and PE 100. The SANS ISO 4427 has grouped together the different pressure classes, produced from different material designations, under common heading known as Standard Diameter (Dimension) Ratio or SDR. HDS (Hydrostatic Design Stress) is obtained by applying a factor of not less than 1.26 to the minimum required strength value of the pipe

Jointing

Permanent jointing of butt welding and electro-fusion is used which allows for transition to detachable joints. Refer to SANS 0269 welding code of practice.

Fittings

The pipe fittings can be plain ended for butt welding or have stubs fitted for flanges. Permissible working pressure is 60% of class of pipe used to fabricate fittings

Storage

Pipe should be stored on level, flat ground, free of stones or sharp protrusions. The height of the stacked pipes should not exceed 5 coils. Normal exposure to sunlight will not damage the pipe

Notes

The HDPE pipe dimensions and pressure classes in the SANS ISO 4427 specifications remain unchanged when compared to the SANS 533: Part 2 and 3 specifications

PSL 3.1 GENERAL

ADD THE FOLLOWING PARAGRAPHS:

'Each type of pipe delivered to the Site shall be of a standard length corresponding to the standard lengths offered by the pipe manufacturer in his catalogue, with a maximum permissible variation in length of $\pm 2\%$.

A pipe that is shorter or longer than the defined standard will be rejected by the Engineer, except when such non-standard lengths are required in terms of the Contract and have been specifically manufactured or cut as such by the pipe manufacturer or supplier."

PSL 5.6 VALVE AND HYDRANT CHAMBERS

PSL 5.6.1 General

REPLACE THE WORDS 'drawing L-r IN THE SECOND LINE WITH "the Drawings"

PSL 5.6.2 Construction of chambers

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

*REPLACE THE WORDS "drawing L-1, L-2 and L-3" IN THE FOURTH LINE WITH "the Drawings" ADD
 THE FOLLOWING SUBCLAUSES.*

PSL 5.11 STANDPIPES

Standpipes shall be erected in the positions and to the details shown on the Drawings.

PSL 5.12 PIPELINE ROUTE MARKERS

Route markers for the various water pipelines shall be erected in the positions and shall be manufactured according to the approved standards."

PSL I TESTING

PSL 7.3 STANDARD HYDRAULIC PIPE TEST

PSL 7.3.1 Test pressure and time of test

PSL 7.3.1.2 The maximum working pressure for the different pipes is indicated by the class of the pipe.

PSL 8 MEASUREMENT AND PAYMENT

PSL 8.2 SCHEDULED ITEMS

PSL 8.2.11 Anchor blocks/Thrust blocks and pedestals

INSERT 'concrete" BEFORE "and' IN THE LAST LINE OF THE LAST PARAGRAPH. ADD

THE FOLLOWING:

"The tendered rates shall also include the wrapping of uPVC pipes and fittings with Densopol 80 or a similar approved material where the pipes and fittings come into contact with concrete."

ADD THE FOLLOWING ITEMS:

"PSL 8.2.16 Valve support assembly (give short description and drawing number):

(a) Specify material:

The rate shall cover the cost and include full compensation for all labour, plant, equipment, material, corrosion protection, transport, etc, manufacturing or providing and installing each item complete as scheduled and shown on the drawings.

PSL 8.2.17 Extra over item 8.2.1 above for on-site cutting of straight pipes to suite fixed change lengths, fittings or specials and chamber positions including site welding, testing and repairing of new joints, for:

(a) Description of pipe Unit: number

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

Separate items will be scheduled for each size of pipe. The rate shall cover the cost of the cutting of the pipe and of the supplying and fitting of the additional coupling and of the delivery of unused off-cuts of pipes to the Employer's store or yard.

The rates shall also cover the cost of 100% radiography testing of all joints as specified.

PSL 8.2.18 Pipeline route markers:

- (a) (Give description with reference to drawing) Unit: number
- (b) Etc for other descriptions

The tendered rate shall include full compensation for all excavation and backfill, labour, equipment and materials to manufacture and install the markers as shown on the Drawings.

PSLB BEDDING (PIPES)

PSLB 3 MATERIALS

PSLB 3.1 SELECTED GRANULAR MATERIAL

REPLACE THE CONTENTS OF THIS SUBCLAUSE W177-1 THE FOLLOWING.

"Selected granular material shall have a PI not exceeding 6 and shall be free from sharp-edged particles exceeding 19 mm."

PSLB 3.2 SELECTED FILL MATERIAL

ADD THE FOLLOWING:

"Selected fill material used for bedding shall, where indicated on the Drawings be stabilized with 5% cement as specified under subclause PSDB 3.5(c)."

PSLB 3.3 BEDDING

ADD THE FOLLOWING:

"uPVC and HDPE pipes are deemed to be flexible pipes for the purposes of this subclause."

PSLB 3.4 SELECTION

PSLB 3.4.1 Suitable material available from trench excavation

REPLACE THE WORDS "(but is not required)" IN THE FIFTH LINE WITH THE WORDS "(at his own cost)".

PSLB 8 MEASUREMENT AND PAYMENT

PSLB 8.1 PRINCIPLES

PSLB 8.1.5 Disposal of displaced material

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Payment References and Descriptions

REPLACE THE CONTENTS OF THIS SUBCLAUSE WITH THE FOLLOWING:

"Material displaced by the pipeline and by imported material from sources other than trench excavation, shall be disposed of at an approved site furnished by the Contractor. No haulage is payable for such material."

PSLB 8.1.6 Free-haul
 DELETE THE WORDS 'of 0,5 km' IN THE FIRST LINE OF THIS SUBCLAUSE

PSLB 8.2 SCHEDULED ITEMS
 ADD THE FOLLOWING ITEM:

"PSLB 8.2.6 Extra over items 8.2.1 and 8.2.2 for bedding stabilized
 with 5% cement Unit: m³The tendered rate shall
 include full compensation for selecting, providing stabilization agent, mixing, backfilling and compacting the
 stabilized material to 93 % of modified AASHTO density.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work



VOLUME 1

PART 3: SCOPE OF WORK

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

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C3 SCOPE OF WORK

GENERAL

This section specifies and describes the supplies, services and engineering and construction works which are to be provided and any other requirements and constraints relating to the manner in which the contract work is to be performed.

SCOPE

The Scope of the Work is set out in two portions:

Portion 1: PROJECT SPECIFICATION covers a general description of the project, the facilities available and the requirements to be met.

Portion 2: VARIATIONS AND ADDITIONS TO THE STANDARDISED SPECIFICATIONS covers variations to the standardised specifications and particular specifications, which are applicable to the contract.

Should any requirement of the Project Specification conflict with any requirement of the standardised or particular specifications, the requirements of the Project Specifications shall prevail.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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Scope of Work

DEFINITIONS

For the purpose of this Contract the following shall have the associated meaning:

- a) Unless inconsistent with the context, an expression which denotes:
 - i) any gender includes the other genders;
 - ii) a natural person includes a juristic person and vice versa; and
 - iii) the singular includes the plural and vice versa.
- b) '**Service Provider**' shall mean either a consultant or contractor appointed to provide a particular service, i.e. investigations, design, labour provision and/or construction.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

ABBREVIATIONS

For the purpose of this Contract the following abbreviations shall have the associated meaning:

ASTM	: American Society for Testing and Materials
BEE	: Black Economic Empowerment
BS	: British Standard
CCD	: Charge-coupled Device
CD	: Compact Disk
CE	: Civil Engineering Works
CIDB	: Construction Industry Development Board
CLO	: Community Liaison Officer
COP	: Code of Practice for Work within the Road Reserve
DS	: Downstream
DVD	: Digital Versatile Disk
ECSA	: Engineering Council of South Africa
EDA	: Enterprise Declaration Affidavit
ELM	: Emfuleni Local Municipality
EMP	: Environmental Management Plan
EPWP	: Expanded Public Works Programme
Ext	: Extension
FH	: Fire Hydrant
GCC	: General Conditions of Contract
GIS	: Geographic Information System
ISO	: International Organisation for Standardisation
Kl	: Kilolitres
l	: Litres
LOS	: Level of Service
MI	: Megalitres
MLM	: Midvaal Local Municipality
Mod AASHTO	: Modified American Association of State Highway and Transportation Officials
PTFE	: Polytetrafluoroethylene
SABS	: South African Bureau of Standards

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

SANS	: South African National Standard
SBR	: Strene-butadiene Rubber
SD	: Standard Definition
SDR	: Standard Dimension Ratio
SOP	: Standard Operating Procedure
WRC	: Water Research Commission
uPVC	: Unplasticised Polyvinyl Chloride
US	: Upstream
VAT	: Value Added Tax

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

PORTION 1: PROJECT SPECIFICATION

PS1 DESCRIPTION OF THE WORKS

PS1.1 Employer's Objectives

The Employer's primary objective is to maintain and improve efficient, reliable, and sustainable water supply infrastructure within its jurisdiction through the replacement and rehabilitation of water reticulation infrastructure that has reached the end of its useful life. These interventions form part of the Municipality's ongoing asset-management and water conservation initiatives aimed at improving service delivery to residents.

The objectives include:

- maintain the integrity and reliability of the water distribution network;
- reduce physical water losses caused by leaks, breakages, and infrastructure failure;
- improve system performance and operational efficiency;
- enhance the quality and reliability of water supply to residents; and
- improve the overall level of service provided by the Municipality.
- Compliance with the Occupational Health and Safety Act during all operations.
- Engagement of EPWP labour in line with municipal job creation objectives.

PS1.2 Overview of the Works

The project requires (at a minimum) the implementation of the following items:

- Site clearance within the work area
- Identification and exposure of existing water reticulation pipelines, valves, and other municipal services, including telecommunications and electrical cables
- Excavation of pipe trenches and stockpiling of suitable excavated material
- Removal and disposal of existing aged or redundant water reticulation infrastructure where required
- Installation of new water reticulation pipelines and associated infrastructure, including valves, fire hydrants, fittings, and connections
- Connection of new infrastructure to the existing water reticulation network
- Backfilling and compaction of excavated trenches in approved layers
- Testing, flushing, and commissioning of installed infrastructure
- Reinstatement of affected surfaces to original or approved condition

This description of the works is not necessarily complete and shall not limit the work to be carried out by the Contractor under this contract.

Approximate quantities of each type of work are given in the applicable section's schedule of Bill of Quantities (BOQ).

The successful tenderer must take note that the standard specifications on which this contract is based are the SANS 1200 and the National Building Regulations SANS 10400.

PS1.3 Location of the Works

The works are located within the Employer's supply and operational area. The exact location of the will be identified on each particular Works Order.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS1.4 Extent of the Works

The project entails but not limited to the following:

- The construction of the water meter chambers, air valve chambers and scour valve chamber.
- Construction of manhole chambers to required standards.
- Conduct environmental control.
- •Reinstatement of roads where installation will occur under road surfaces;
- Conduct geotechnical studies.
- Accommodation of traffic.
- Installation of pipe markers
- Pipe jacking
- Reinstatement of existing services

This description of the Works is not necessarily complete and shall not limit the work to be carried out by the Contractor under this Contract.

PS1.4 Temporary Works

Temporary works shall:

- a) include the works required to locate, verify and protect existing services within the works area.
- b) include the works required to confirm pipe diameters and material where fitting installations and replacements are proposed;
- c) be such to ensure no or limited interruption to vehicular and pedestrian traffic; and
- d) be such as to allow the continued or uninterrupted supply of water.

The Contractor shall further note that no stockpiling of materials, plant, excavated material or any other construction related infrastructure shall NOT be allowed in locations that may interfere with the operations of the Employer and the public in general.

PS2 ENGINEERING

PS2.1 Design

- (a) The Engineer is responsible for the design of the permanent Works as reflected in the Contract Documents unless otherwise stated.
- (b) The Contractor is responsible for the design of the temporary Works and their compatibility with the permanent Works.
- (c) The Contractor shall supply all details necessary to assist the Engineer in the compilation of the as-built drawings.

PS2.2 Employer's Design

The end user design is as detailed in the documentation and on the drawings to be provided.

PS2.3 Contractor's Design

- (a) The Contractor is responsible for the design of the permanent Works as reflected in the Contract Documents and to be clarified in the letter of acceptance unless otherwise stated. Designs shall be reviewed by the Engineer and approved by the Employer. Professional liability for the designs remains with the contractor's design engineer. It is required that the contractors design engineer be professionally registered with the Engineering Council of South Africa (ECSA) and that he certify all drawings issued for construction.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

- (b) The Contractor is responsible for the design of the temporary Works and their compatibility with the permanent Works.
- (c) The Contractor shall compile the as-built drawings which will be certified by the professionally registered engineer.

Where contractor is to supply the design of designated parts of the permanent Works or temporary Works he shall supply full working drawings supported by a professional engineer's design certificate.

PS2.4 Drawings

The Contractor shall use **only** the dimensions stated in figures on the Drawings in setting out the Works, and dimensions shall not be scaled from the Drawings, unless required by the Engineer. The Engineer will, on the request of the Contractor in accordance with the provisions of the Conditions of Contract, provide such dimensions as may have been omitted from the Drawings.

The Contractor shall ensure that accurate as-built records are kept of all infrastructure installed or relocated during the contract. The position of pipe bends, junction boxes, duct ends and all other underground infrastructure shall be given by either co-ordinates, or stake value and offset. Where necessary, levels shall also be given.

A marked-up set of drawings shall also be kept and updated by the Contractor. This information shall be supplied to the Engineer's Representative on a regular basis.

All information in possession of the Contractor, required by the Engineer and/or the Engineer's Representative to complete the as-built/record drawings, must be submitted to the Engineer's Representative before a Certificate of Completion will be issued.

PS2.4 Design Procedure

- The following design procedure (not in any order) must be following:
- Wayleaves will need to be obtained from relevant authorities by the Contractor before any construction work can commence
- Pressure tests to be done
- Existing Services must be located and shown on the drawings
- Design Engineer to produce drawings for Engineer/employers approval
- Environmental and safety considerations
- Any temporary works requirements, in order to protect the works as well as person and property that will be affected by the construction activities.
- All designs and modifications thereto shall be communicated in writing and the contractor and engineer shall maintain lists to record and track all transactions.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS3 PROCUREMENT

PS3.1 Preferential Procurement Procedures

The Contractor's attention is drawn to the following returnable schedule contained in Part T2:

- a) Empowerment and Preferential Procurement Refer to Form T.2.1 (MBD4, MBD5, MBD6.1, MBD8, MBD9)

This schedule contains all requirements with regard to preferential procurement.

PS3.2 Sub-contracting

The Contractor is:

- a) not obliged to utilise any sub-contractors specifically nominated by the Employer.
- b) required to utilise local sub-contractors for the completion of unskilled labour-based sections of the works, where practical.
- c) responsible for all work executed on his behalf or under his supervision and/or management by all sub-contractors, including nominated sub-contractors.

NOTA BENE: *The Employer shall not negotiate directly with sub-contractors and all problems relating to payments, programming, workmanship, etc., are matters between the Contractor and his sub-contractors.*

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS4 CONSTRUCTION

PS4.1 Applicable Standards

PS4.1.1 National standards

The Standard Specifications for all associated civil work applicable to this Contract shall be:

SANS Description

1. SANS 164 Plugs, socket-outlets and couplers for industrial purposes*
2. SANS 241 South African Standard Specification for drinking water
3. SANS 1373 Chain-link fencing and its wire accessories*
4. SANS 10299 Development, maintenance and management of groundwater resources*
5. SANS 10306 The management of potable water in distribution systems*
6. SANS 10400 Application of the National Building Regulations
7. SANS ISO 5667-2 Water quality sampling, part2: Guidance on sampling techniques*
8. OW 371 Specification of Materials and Methods to be used. Fourth revision, October 1993.**
9. Standard Specification for the Electrical Equipment and Installation for Mechanical Services, Issue VIII December 1984**
10. Standard Electrical Specifications, January 1984, GPS 24-0367**
11. Department of Water Affairs and Forestry, Department of Health and the Water Research Commission - Department of Quality of Domestic Water Supplies

* Not issued with this document, but available at the Contractor's expense from the SA Bureau of Standards, Private Bag X191, PRETORIA, 0001.

** Not issued with this document but available from the Director General, Department of Public Works, Private Bag X65, PRETORIA 0001, or any office of the Regional Representative of this Department.

The standard specifications on which this section of the contract is based are the **South African Bureau of Standards Standardized Specifications for Civil Engineering Construction SANS 1200**.

Although not bound in nor issued with this Document, the following Sections of the Standardized Specifications of SANS 1200 shall form part of this Contract:

1. SANS 1200 A GENERAL
2. SANS 1200 AA GENERAL (SMALL WORKS)
3. SANS 1200 AB ENGINEERS OFFICE
4. SANS 1200 AD GENERAL (SMALL DAMS)
5. SANS 1200 AH GENERAL (STRUCTURAL)
6. SANS 1200 C SITE CLEARANCE
7. SANS 1200 D EARTHWORKS
8. SANS 1200 DA EARTHWORKS (SMALL WORKS)
9. SANS 1200 DB EARTHWORKS (PIPE TRENCHES)
10. SANS 1200 DE SMALL EARTH DAMS
11. SANS 1200 DK GABIONS AND PITCHING
12. SANS 1200 DM EARTHWORKS (ROADS, SUBGRADE)
13. SANS 1200 DN EARTHWORKS (RAILWAY SIDINGS)
14. SANS 1200 G CONCRETE (STRUCTURAL)
15. SANS 1200 GA CONCRETE (SMALL WORKS)
16. SANS 1200 GB CONCRETE (ORDINARY BUILDINGS)
17. SANS 1200 GE PRECAST CONCRETE (STRUCTURAL)
18. SANS 1200 GF PRESTRESSED CONCRETE
19. SANS 1200 H STRUCTURAL STEELWORK
20. SANS 1200 HA STRUCTURAL STEELWORK (SUNDRY ITEMS)
21. SANS 1200 HC CORROSION PROTECTION OF STEELWORK
22. SANS 1200 L MEDIUM-PRESSURE PIPE LINES
23. SANS 1200 LB BEDDING (PIPES)
24. SANS 1200 LC CABLE DUCTS
25. SANS 1200 LD SEWERS
26. SANS 1200 LE STORMWATER DRAINAGE
27. SANS 1200 M ROADS (GENERAL)
28. SANS 1200 ME SUBBASE
29. SANS 1200 MF BASE
30. SANS 1200 MFL BASE (LIGHT PAVEMENT STRUCTURES)
31. SANS 1200 MG BITUMINOUS SURFACE TREATMENT

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

- 32. SANS 1200 MH ASPHALT BASE AND SURFACING)
- 33. SANS 1200 MJ SEGMENTED PAVING
- 34. SANS 1200 MK KERBING AND CHANNELLING
- 35. SANS 1200 MM ANCILLARY ROADWORKS

PS4.1.2 Other Standards

Other Standard Specifications for applicable to this Contract shall be:

- a) South African Road Traffic Signs Manual, Chapter 13.
- b) ASTM C150/C150M-09 Standard Specification for Portland Cement.
- c) ASTM E23 - 07ae1 Standard Test Methods for Notched Bar Impact Testing of Metallic Materials.

PS4.2 Particular generic specifications

PS4.2.1 Minimum health and safety requirements

The following requirements shall be deemed minimum compliance requirements to ensure the health and safety of the public and workers during the execution of the Contract:

PS4.2.1.1 Road safety equipment

Work units or teams shall be provided with:

- a) an amber-flashing beacon, which shall comply with and be operated in accordance with any governing road vehicle lighting regulations or similar.
- b) **appropriate sized and quantity of road signs, including delineators and cones which shall be displayed at the works area in accordance with the South African Road Traffic Signs Manual, Chapter 13.**
- c) bright coloured overalls, fluorescent over-jackets and belts for each team member for use at all working times during the day or night.

PS4.2.1.2 Works site safety

The works are to be executed in areas with high volume pedestrian and vehicular traffic. The Contractor shall ensure that:

- a) the workspace required to successfully complete installations shall be kept at a minimum. Thus, plant and equipment not used is to be removed from the work site to minimize disruption to the customer, other traffic and the general public.
- b) the working area shall be free of debris when the Contractor leaves the site at the end of the day or each shift.
- c) open chambers, machinery and standing equipment are to be protected to ensure the safety and convenience of traffic, the general public or other at all times.

PS4.2.2 Traffic control

Traffic (human and vehicular) control and signage shall be in accordance to the South African Road Traffic Signs Manual, Chapter 13. And at minimum include:

- a) a traffic control plan with detailed diagrams showing the location of all traffic control devices and the length of time for all lane closures, as well as location of any flaggers, as necessary.
- b) one lane of traffic in each direction must be maintained at all times and local streets may only be closed with prior approval of the Engineer.
- c) provision and maintenance of lights, guards, fencing and watching when and where necessary or required for the protection of the Works and the materials and equipment utilized therefore or for the safety and convenience of the public or others.
- d) the name and number of the Contractor representatives responsible for traffic control shall be made available to solve traffic problems at each works site location.

PS4.2.3 Metric measurement

All survey recorded dimensions of infrastructure shall be in metric units, including for conduits, chambers.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS4.2.4 Site preparation

Prior to any Works commencement the Contractor shall photograph or video tape entire work area. One copy of which shall be given to the Engineer's authorized representative and one copy shall remain with Contractor for a period of 52 weeks following the issue of a Completion Certificate. This record shall be used to establish accountability for damages during the execution of the Contract.

No alterations beyond what is required for Works are to be made. Contractor shall confine all activities to designated work areas, to the absolute minimum required.

PS4.2.5 HDPE pipes

PS4.2.5.1 Pipe colour

Pipe shall conform to the following:

- Pipe shall only be black.
- Colour shall homogeneous throughout.

PS4.2.6 Pipe handling and storage

Pipe shall be handled and stored in accordance with manufacturer's specifications and these specifications, including:

- Pipes shall be stored on flat level ground or the storage base shall be made level to ensure pipes are stacked level and vertical. Pipes shall be kept securely anchored to prevent movement using timber, timber wedges or sand bags. Pipes shall be placed on timber bearers not more than 1.5m apart. Where pipes are stacked, timber bearers shall be placed between each layer of pipes. It shall also be ensured that the weight of upper units do not cause deformation to pipe in lower units.
- Plastic pipes shall be stored away from contact with chemicals or ground contaminated with chemicals.
- Care shall be taken to prevent scoring and scratching of plastic pipes.
- Rubber rings for pipe joints shall be stored in a cool area, preferably 20°C or less and away from direct sunlight. They shall be protected to ensure that there is no contact with petroleum products. SBR rings shall also be stored away from sources of ozone such as fluorescent lights and electric motors.
- Plastic pipes, and steel pipes with bituminous coatings shall be stored in a shaded area at all times. Where permanent storage structures are not available, pipes shall be stored under shade-cloth canopies manufactured from shade-cloth with shade cover rated at a minimum of 80%, protecting the pipes from direct sunlight from all angles.

PS4.2.7 Inspection of pipes and fittings

Pipe components shall be checked for damage and flaws immediately before installation, where:

- plastic pipes and fittings shall be checked for gouges, cracks, holes, flattening and indentations.
- rubber rings shall be checked for tears or any other damage or flaws before making each joint.

Damaged or flawed pipes and fittings shall only be used if approved by the Engineer. Pipes and fittings considered unsuitable for use by the Engineer shall be removed from the site at the Contractor's expense. The Engineer may approve the repair of any damage where the pipe or joint may be repaired without affecting its performance.

PS4.2.8 Cutting of plastic pipes

- Pipes shall at all times be cut square to the barrel of the pipe. For:
 - rubber ring and solvent cement jointed pipe, the deviation from square shall not be in excess of 5mm.
 - butt or electro-fusion jointed PE pipes the deviation from square shall not be in excess of 1mm.
- Jagged edges shall be removed from pipe ends.
- Cut edges of rubber ring or solvent cemented plastic pipes shall be bevelled in accordance with the manufacturer's instructions.

PS4.2.9 Acceptability of cuts or gouges

Cuts or gouges that reduce the pipe wall thickness in excess of 10% is not acceptable and shall be cut out and discarded (properly disposed from the site).

PS4.2.10 Encountering of water during operations

The Contractor is to provide and maintain a water removal system that has sufficient capacity to remove all encountered water, during Works operations. Such system(s) shall ensure that soil particle removal is kept at a minimum.

PS4.2.11 Site restoration

The Contractor, following all Works completion, shall disassemble all equipment and restore the site to original condition. Any noticeable surface defects, due to the executed Works, shall be repaired by the Contractor.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

All excavations shall be backfilled and compacted to minimum density of 95% MOD ASSHTO, unless otherwise instructed by the Engineer or his duly authorized representative.

PS4.2.12 Locating of services

The Contractor shall locate all services, known and unknown, within the vicinity of the ordered Works, using specialist equipment and if required exposing such by means of hand excavation. This shall be limited to where ordered Works may result in damage of such services, typically as may be the case with the installation of a new meter and/or fitting or repositioning of an existing meter and/or fitting.

PS4.2.13 Excavation

All secondary mains, erf connection, meter and fitting excavations shall be with SANS 1200DB but performed by hand, unless the Contractor can demonstrate to the satisfaction of the Engineer or his duly authorized representative that hand excavation is impossible and/or impractical.

PS4.2.14 Replacement of an existing meter or fitting

In-situ replacement of an existing meter or valve or fitting shall occur where such has been identified as defunct and the Contractor ordered to execute its replacement. The Works shall include removing the defunct meter or valve or fitting, cleaning existing pipework and fittings and installation of replacement meter or fitting.

New and existing pipe(s) and fitting(s) shall be properly bedded as per SANS 1200LB on a Class B bedding and excavations shall be backfilled and compacted to minimum 90% MOD AASHTO.

During the replacement activity any defunct meter, valves, pipes, fittings, surface box or chamber, within the Works area and forming part of the Employer's infrastructure shall be identified by the Contractor and prior written approval shall be obtained for its replacement.

Testing of the complete connection affected by the ordered Works shall be in accordance to SABS 1200L sub-clause 7.3.

PS4.2.15 Chamber frame and cover replacement

The Contractor shall replace an existing chamber frame and cover with a new frame and cover, including: removing the existing frame and cover, cleaning of frame and cover, check integrity of existing brickwork, removing loose brickwork, preparing area to patch brickwork or concrete, and placing and leveling the new frame and cover in mortar per the standard detail drawings.

PS4.2.16 Spoiling of material

No indiscriminate spoiling of material by the Contractor shall be allowed. All surplus or unsuitable material shall be spoiled at a site located by the Contractor, deemed by the Engineer as compliant with legislative requirements.

PS4.2.17 Chamber appurtenances

PS4.2.17.1 Frames and covers

Chamber frames and covers shall conform to the applicable standard SANS 558 requirements, however such covers and frames shall:

- be blue polymer reinforced concrete castings for water;
- be for the appropriate duty (for the installation location; i.e. light, medium and heavy) watertight type and bolt-hinged lid as noted on the standard detail drawings;
- have a cover and seat that shall have machined bearing surfaces to prevent rocking and rattling;
- have the Employer's brand (logo only) cast on;
- be solid; and
- have a concealed pick hole for all water chambers.

PS4.2.17.2 Chamber step irons

Chamber step irons shall conform to the applicable standard SANS requirements, but shall be:

- spaced at 300mm centres;
- distanced not exceed 600mm between the top of casting and the first step; and
- plastic or similar approved.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS4.2.18 Chamber bedding

a) Precast chamber forms

Precast chamber form bases shall be bedded on granular material or acceptable undisturbed foundation material.

b) Cast-in-place chambers

Concrete bases shall be poured on 50mm leveling screed.

PS4.2.19 Concrete, formwork and reinforcement

NOTA BENE: All in situ concrete work (mass and reinforced) shall comply with SANS 1200G ("8.Measurement and Payment" is not applicable) supplemented by the clauses in this section. Where:

- SANS 1200G and the clauses in this section are in conflict, the clauses in this section shall take precedence.
- the term "plain concrete" appears in SANS 1200G it shall be read as "mass concrete".

PS4.2.19.1 Cement

Cement shall be Portland cement (or similarly approved) complying with the requirements of SANS 50197-1/EN 197-1 or SANS 5831.

Samples of cement from any one, or from every consignment, may be required by the Engineer or his duly authorized representative for test purposes. Cement in any consignment from which a sample may have been taken for testing shall not be used until it has been approved. Allowance shall be made for possible delay in that tests may take 10 days to carry out.

Bags of cement shall be stacked in a waterproof, solidly constructed shed with a central door and a floor rendered damp-proof with a tarpaulin. The bags of cement shall be closely stacked (but not against walls) in order to reduce air circulation in such a manner that the cement is used in the order in which it was received, *i.e. first in first out*.

Unless otherwise specified in the these documents the use of ordinary Portland cement blended with ground granulated blast furnace slag complying with SANS 1491, or ordinary Portland Cement blended with Pulverised Fly Ash complying with SANS 50197-1/EN 197-1 shall be allowed in certain instances as an alternative, after acceptance of tender offer, but only with the approval of and at the sole discretion of Engineer. If not so specified in the documents the Contractor must demonstrate a saving in favour of the Employer together with this alternative.

PS4.2.19.2 Sand (Fine aggregate)

The fine aggregate shall comply with the requirements of SANS 1083. Other aggregates may be approved if they have a satisfactory history and/or test results.

No aggregate may be used until it has been approved. Samples having a mass of 25kg (16,5l) of the aggregate proposed to be used may be required by the Engineer or his duly authorized representative for test purposes. Samples having a mass of 25kg shall be forwarded every 3 months during concreting work and also if the source of supply is changed. Allowance must be made for possible delay in that the tests may take 14 days to carry out.

PS4.2.19.3 Stone (Coarse aggregate)

a) The coarse aggregate shall comply with the requirements of SANS 1083. No aggregate may be used until it has been approved. Samples having a mass of 25kg (16,5l) of the aggregate it is proposed to use may be required by the Engineer or his duly authorized representative for test purposes. Samples shall be forwarded every 3 months during concreting work and also if the source of supply is changed. Allowance must be made for possible delay in that the tests may take 14 days to carry out.

NOTA BENE: Certain fine grained sand and stone originating from the Beaufort Series and Karoo Systems which are known by reputation, local experience or tests, to exhibit excessive shrinkage when used in concrete, may be deemed unacceptable by the Engineer or his duly authorized representative.

b) A certificate of proof is required from the Contractor that the aggregates are not alkali-reactive. The cost of testing and certification are to be borne by the Contractor.

PS4.2.19.4 Concrete

Concrete shall be of the classes given in the following table. The proportions of the ingredients and the nominal size of the coarse aggregate for each class shall be as laid down therein:

Class	Cement	Aggregate			Strength (MPa)
	Part	Fine Part	Coarse Part	Size	
A	1	4	8	50	10
B	1	3	6	38	15
C	1	3	6	19	15

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO. 8/2/2/463(2026-2029) PAGE (238)
 BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF
 AGED WATER RETICULATION PIPELINES AND ASSOCIATED
 INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS
 AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Scope of Work

D	1	2	4	38	25
E	1	2	4	19	25
F	1	1 ½	3	19	30
G	1	1	2	19	40

The strength given in the above table shall be the minimum required at 28 days. Unless otherwise specified Class B concrete shall be used for mass concrete and Class E concrete for reinforced concrete.

Maximum concrete slumps acceptable for different types of construction concrete are as follows:

- a) Vibrated reinforced concrete = 50mm
- b) Un-vibrated reinforced concrete = 75mm
- c) Mass concrete = 75mm

When so required by the Engineer or his duly authorized representative, and whilst concreting is in progress, the consistency of the mixture shall be ascertained by means of the slump test as later described herein.

PS4.2.19.5 Volume batching

The coarse and fine aggregate shall be measured by volume and, unless otherwise directed, cement shall be measured by mass: the volume of a 50 kg bag of cement shall be taken as 33l. Suitable measuring boxes for the coarse and fine aggregates shall be provided to the approval of the Engineer or his duly authorized representative.

The proportions given above are approximate only, and should the Engineer or his duly authorized representative consider that the voids in the coarse aggregate require more or less matrix than is formed by the proportions specified, he may vary the quantities of coarse and fine aggregates to obtain the required density and workability of the concrete, provided that the proportion of cement to the total volume of the aggregate shall not be less than that specified.

When the sand is not completely dry, allowance must be made for bulking due to the moisture content. The amount of bulking shall be determined by the Contractor in the presence of the Engineer or his duly authorized representative.

The amount of water shall never exceed 34l to every bag of cement used, including the water contained in the sand.

Effective screens shall be provided to protect the mixing of concrete during windy weather.

PS4.2.19.6 Weigh batching

The proportioning of the coarse and fine aggregates by mass shall be permitted, providing the method used is approved by the Engineer or his duly authorized representative.

- a) All requests received by the Engineer or his duly authorized representative to make use of weigh batching shall be submitted to the Structural Engineer for approval.
- b) If the weigh batching process is preferred to volume batching, the proposed mix proportions are to be equivalent to the relevant volumetric mixes as documented previously herein and be based on a minimum cement content.
- c) The following procedures must be complied with:
 - i) The Contractor must timeously obtain written approval for the use of weigh batching and submit all information as set out below, with his application.
 - ii) The mix transformation from volume to weigh batching shall be carried out at an approved laboratory.
 - iii) Weigh batching equipment must be calibrated and a certificate of accuracy must be submitted before such equipment may be used. On contracts of long duration and/or requiring large quantities of concrete, new calibration certificates may be required every four months.
 - iv) The cement to aggregate ratio by volume for the following mixes shall apply:
 - Class C (15 MPa) - c/a = 1:9
 - Class E (25 MPa) - c/a = 1:6
 - Class F (30 MPa) - c/a = 1:4.5
 - Class G (40 MPa) - c/a = 1:3
 - v) The following cement/water ratios by mass must also be complied with:
 - Class C (15 MPa) - c/w = 1.30 to 1.35
 - Class E (25 MPa) - c/w = 1.65 to 1.80
 - Class F (30 MPa) - c/w = 1.90 to 2.05
 - Class G (40 MPa) - c/w = 2.30 to 2.50

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS4.2.19.7 Ready mixed concrete

Any application to use ready mixed concrete shall be submitted by the Contractor at an early stage for approval by the Structural Engineer. Only suppliers on the Employer's approved list shall be considered. New applications must be submitted to the Employer, well in advance.

PS4.2.19.8 Strength concrete

The Contractor shall be responsible for the design of strength concrete and for the measurement of the constituent materials to produce concrete that complies with the specified requirements.

a) Trial mixes

The Contractor shall ensure that samples of the constituent materials of the concrete, together with evidence that they comply with the provisions, are supplied for approval in good time and provide the Engineer or his duly authorized representative with:

- i) a statement from an approved independent laboratory of the results of tests; or
- ii) an authoritative and acceptable report, or record of the previous use of and experience with, the material concerned.

The cement, types of aggregate and their origins shall not be changed throughout the duration of the Contract without giving prior notification to the Engineer who shall verify that the above requirements are complied with and that the important qualities of the concrete shall not be impaired.

b) Consistency

Unless otherwise indicated by the general workability of the concrete, method of transportation, conditions of placement or otherwise specified by the Engineer, the suggested slump values, for different mixes of concrete shall be as specified in this document.

c) Workability

Ensure that the concrete is of such workability that it can be readily compacted into the corners of the formwork and around reinforcement without segregation of the materials and without excessive "bleeding" of free water at the surface.

PS4.2.19.9 Expansion alkali-aggregate reaction

The use of some local aggregates may lead to an expansive alkali-aggregate reaction if the concrete in the structure shall be exposed to continual dampness, or shall be subject to alternate wetting and drying.

Alkali reactive aggregates, i.e. certain granites, quartzites and Malmesbury hornfels (shale), shall not be used in conjunction with high alkali cement for concrete in any part of the works. Where a high alkali cement shall be one in which the equivalent alkali content exceeds 0,60% by mass of the cement.

If the Contractor chooses to use one of the aggregates stated above in lieu of stone as described in this document he shall:

- a) ensure that no high alkali cement is delivered to the site. Any such high alkali cement shall be rejected and the cost of its removal and replacement with cement having an acceptable alkali content shall be borne by him.
- b) provide certificates stating the alkali content of each delivery of cement to the site, based on tests carried out at a laboratory approved by the Engineer. The cost of testing, including sampling, transporting of samples and issuing of certificates, shall be borne by him.
- c) be entitled to use an approved brand of cement as a means of ensuring that the permissible alkali content is not exceeded. Where he shall make allowance for the higher price of such approved brand, if he chooses to use this method.

PS4.2.19.10 Pumping of concrete

The placing of concrete by pumping in any section of the works shall be subject to the written approval of the Engineer or his duly authorized representative. The Contractor shall furnish full details regarding the mix proportions of the concrete that he intends to place by pumping.

PS4.2.19.11 Admixtures to concrete

The use of admixtures in concrete shall only be considered should special circumstances warrant this and only with the prior written approval of the Engineer. The Contractor shall provide the following information:

- a) the trade name of the mixture, its source and the manufacturer's recommended method of use;
- b) typical dosage rates and possible detrimental effects of both under and over dosage; and
- c) the expected average air content of freshly mixed concrete containing an admixture which causes air to be entrained when used at the manufacturer's recommended rate of dosage.

PS4.2.19.12 Slump test

The apparatus and the method of determination of the slump of freshly mixed concrete shall comply with SANS 5862-1.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

a) Apparatus

i) A mould in the form of a frustum of a cone and having the following nominal internal dimensions:

- Bottom diameter : 200mm
- Top diameter: 100mm
- Height : 300mm

The mould shall:

- be of a metal (other than brass or aluminum) of side thickness at least 1.6 mm and shall have a smooth internal surface.
- have suitable base plate and handles to facilitate lifting it from the test specimen in a vertical direction.

ii) The tamping bar shall have a nominal diameter of 16mm, a length of 600mm and with sharp corner rounded off at one end.

b) Procedure:

The test shall be carried out in an area that is free from vibration and shocks. Ensure that the internal surfaces of the mould are free from set concrete and are clean and dry.

Place the mould with the bottom on a smooth, horizontal, rigid, non-absorbent surface and hold the mould firmly in place while it is being filled as follows:

- i) in four layers, each thickness approximately one-quarter of the height of the mould. Tamp each layer with 25 strokes uniformly spaced over the cross-section of the mould. Tamp the bottom layer throughout its depth and ensure that when tamping the second and subsequent layers the strokes penetrate into the underlying layer.
- ii) after the top layer has been tamped, strike off the concrete level so that the mould is exactly filled. Clean off any concrete that may have leaked out between the mould and the supporting base-plate surface. Remove the mould from the concrete immediately by slowly and carefully raising it in a vertical direction. This shall allow the concrete to subside. Immediately measure the slump, to the nearest 5mm, by determining the difference between the height of the mould and the height of the specimen. Regard the test as invalid, if a slump specimen collapses or shears off laterally, discard the result and repeat the test.

PS4.2.19.13 Concrete cubes

The apparatus for making and testing of concrete cubes shall comply with SANS 5863.

a) Apparatus

Cubic metal moulds shall:

- be steel;
- be machined and adequately strengthened to resist distortion;
- have an internal distance between faces of 150mm;
- be constructed so as to facilitate the easy removal without damage of the moulded specimen; and
- have a metal base plate which shall be attached to the mould by springs or screws.

When assembling the mould for use, the joints between the sections of the mould, the contact surfaces between the bottom of the mould and the base plate, and the internal faces of the assembled mould shall be thinly coated with a grease or oil that shall prevent leakage of water through the joints and adhesion of the concrete to the mould.

The tamper must be a steel bar of length 400mm and mass 1.8kg, and having a 25mm square ramming face.

b) Sampling and making cubes

Sampling shall comply with SANS 5861-2.

One set of 3 cubes shall be required for every 40m³, or part thereof, of concrete cast. The sample taken from a batch of concrete and sufficient to make 3cubes shall be placed in a tray or on a platform and mixed thoroughly.

The moulds shall each be filled in 3 layers of approximately 50mm thick concrete. Each layer shall be compacted with the tamping rod, with at least 35 blows to give full compaction of the concrete.

After the top layer has been compacted, strike off the surface of the concrete with a trowel, level with the top of the mould.

Any small hollows shall be filled in with additional concrete. Cement/sand slurry shall not be worked into the surface.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

At this stage, the identity of each sample shall be placed on the moulded cube, by means of a label of absorbent material and not by scouring of the surface of the concrete.

c) Curing cubes on site

Cover the test cubes in their moulds with an impervious sheet or wet sacking and store indoors in a place that is free from vibration, excessive draughts, cold and direct sunlight.

After 24 hours the cubes shall be demoulded, remarked with a waterproof crayon or marker and placed in a curing tank for 7 days before being transported to the laboratory.

The Contractor shall supply the curing tank which shall incorporate a thermostat to control the water temperature at 22 to 25°C and shall be kept within a building.

d) Testing of cubes

The testing of all concrete cubes shall be done in accordance with SANS 5863 by a laboratory approved by the Engineer.

A suitable testing machine of sufficient capacity having an accuracy and repeatability that comply with the requirements for Grade A machines of BS 1610 "Method for the load verification of testing machines" shall be used to test the compressive strength of each cube.

The Contractor is responsible for the provision of the cube moulds and for timeous delivery of the cubes to the laboratory.

PS4.2.19.14 Concrete quality

Should the Contractor dispute any results obtained from concrete test cubes, the concrete represented by the cubes shall be considered acceptable if the Contractor, at his own cost, proves to the satisfaction of the Engineer that the estimated actual strength of cores taken from the structure (by an approved independent testing laboratory and determined in accordance with SANS 5865 is not less than the specified strength. If the concrete fails to meet the strength criteria stipulated, the Engineer may at his sole discretion and in addition to the options listed in SANS 1200G:

- a) accept the concrete subject to approved remedial measures being undertaken by the Contractor at his own cost; or
- b) permit the concrete to remain, subject to reduced payment for lower strength concrete.

PS4.2.19.15 Concreting

It is essential that the Contractor representative who has charge of the construction of all concrete work, whether reinforced or not, shall be skilled in this class of work, and shall personally supervise the whole construction, paying special regard to:

- a) the quality, testing and mixing of the materials;
- b) the laying of the material in place and the thorough compaction of the concrete to ensure solidity and freedom from voids;
- c) the construction and removal of formwork; and
- d) the sizes and positions of the reinforcement.

Particular care shall be taken to work concrete against formwork and around reinforcement. Internal vibrators may be used with the approval of the Engineer or his duly authorized representative but external vibrators which act only on the formwork WILL NOT be permitted.

Concrete to be reinforced shall be deposited in such quantities as shall permit of it being properly compacted around the reinforcement.

The placing of concrete shall be completed within ½ hour after mixing or within ½ hour after agitating and within 2,5 hours after mixing in the case of ready mixed concrete. Under no circumstances shall concrete be incorporated into the work after it has attained its initial set.

Care shall be taken to prevent, as far as possible, the formation of laitance or scum. Laitance is to be understood to mean the scum of strengthless and inert material which forms on the surface of concrete.

Concrete shall not be dropped into position from a height greater than 2.5m unless prior approval is obtained from the Engineer.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO. 8/2/2/463(2026-2029) PAGE (242)
 BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF
 AGED WATER RETICULATION PIPELINES AND ASSOCIATED
 INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS
 AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Scope of Work

If an inclined chute is used for transporting concrete, it shall be of such slope as shall ensure a continuous flow of concrete without the use of an excessive quantity of water and without segregation of the aggregates. The chute must be flushed out and properly cleaned before and after each working period. All waste from flushing shall be discharged outside the formwork.

In beams, each portion of a successive layer shall be placed as soon as the concrete below has been properly worked around reinforcement and against formwork. Concreting shall be carried forward in irregular steps, that is to say, one layer shall not be completed over the whole section before the succeeding layer is commenced. Concreting of slabs and beams shall, as far as possible, be carried forward in one operation. When concreting has to be interrupted the concrete shall be left with a level, rough top surface with ends vertical. The concrete shall not be merely sloped down. On resuming concreting, the old surface shall be roughened and all laitance thoroughly and carefully removed before any new concrete is deposited. This must be carried out by brushing the surface of the concrete while it is still green. Great care must be taken to avoid any weakness at the junction of old and new concrete, and the old surface shall be coated with a thin layer of cement and sand mortar, in the same proportions as that of the adjoining concrete. While the concrete is setting it shall not be disturbed or shaken by traffic, either on the concrete itself or upon adjoining formwork.

No holes in concrete elements shall be patched or filled in without inspection, instruction and approval of the Engineer or his duly authorized representative.

No concreting shall be carried out when the air temperature is below 4°C when it is rising and 8°C when it is falling.

Before concreting is commenced the Contractor shall give the Engineer or his duly authorized representative 24 hours notice of his intention to do so. On sites further than 200km from the Engineer or his duly authorized representative, 48 hours notice must be given.

Concrete surface beds, excluding heavy industrial floors etc. shall be Class C concrete and shall be laid in suitable size panels not exceeding 20m² in area and with the length of any panel not exceeding 4.5m.

Where concrete beams are supported on concrete columns, the columns are to be concreted up to the underside of such concrete beams and then concreted up to the top of the beams, integral with the beams.

NOTA BENE: Any finish applied to the surface of concrete floors, is to be understood as being additional to the thickness of the concrete described or shown on the drawings.

PS4.2.19.16 Curing of concrete

After the concrete has been placed, all exposed surfaces shall be kept continuously damp for at least 10 days by methods as may be approved by the Engineer or his duly authorized representative, such as covering with approved building paper, or by means of wet canvas, wet sacks, wet sand, by continuous hosing or ponding with water.

PS4.2.19.17 Concrete lintels (cast in-situ)

Concrete lintels cast *in-situ* shall be of Class E concrete, reinforced with steel reinforcement as well as of depths specified in the table hereunder. Each lintel shall be the full thickness of walls into which they are cast and 450mm longer than width of openings.

Clear or daylight span	Depth in brick courses	Reinforcement
< 1m	3	Nil
≥ 1m ≤ 1.5m	3	One 12mm diameter mild steel rod, 40mm up from bottom, for each half brick width of soffit.
> 1.5m ≤ 2m	4	One 16mm diameter mild steel rod, 40mm up from bottom, for each half brick width of soffit.
> 2m	To detail	To detail.

PS4.2.19.18 Building on concrete footings and beams

No brickwork, stone walling or other structure shall be built on concrete footings until at least 3 days after placement of the concrete in the case of mass concrete footings and after 7 days in the case of reinforced concrete footings or as may otherwise be directed by the Engineer or his duly authorized representative.

No brickwork, stone walling or other structure shall be built on reinforced concrete beams or similar members until the formwork and all propping or supports have been removed.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS4.2.19.19 Slip joints between concrete and brickwork

Slip joints shall be provided between brickwork and concrete slabs and beams by levelling up and trowelling smooth the bearing surfaces of brickwork with 3:1 cement mortar and covering the bearings before the concrete is cast, with two layers of one side smooth tempered hardboard, with the smooth sides in contact.

The ends and sides of beams and edges of concrete slabs shall be separated from the brickwork with 13 mm thick bitumen impregnated softboard or expanded polyethylene strips placed vertically against the brickwork before the concrete is cast.

Similar slip joints shall be provided between brickwork and concrete lintels cast *in situ*, but without softboard or expanded polyethylene strips at ends.

PS4.2.19.20 Movement joints

All movement joints are to be filled in with approved bitumen impregnated softboard or expanded polyethylene strip unless otherwise specified or detailed on drawings. Form similar movement joints where pathways adjoin structures externally.

PS4.2.19.21 Cutting, punching or hacking concrete

No reinforced concrete shall be cut or hacked without the approval of the Engineer or his duly authorized representative.

PS4.2.19.22 Forming key to concrete for plaster and other finishes

Where rough formwork has been used, surfaces of concrete to receive plaster and other finishes, shall, immediately after the formwork has been removed, be well wetted and wire brushed whilst the concrete is still green and then slushed over with 2:1 cement grout to form a key for the finish, all to the approval of the Engineer or his duly authorized representative. The slushing is to be allowed to set hard before the finish is applied.

Where smooth formwork is used, surfaces of the concrete to receive plaster and other finishes shall be hacked, on the distinct understanding that hacking of concrete shall be at no extra cost.

Surfaces of concrete receiving plaster or other finishes shall not be plastered or finished until the Engineer or his duly authorized representative has signified his opinion that the surfaces are suitable to receive plaster or other finishes.

PS4.2.19.23 Sleeves pieces

Where it is necessary to leave plugs or holes in beams, slabs or any other reinforced concrete, all such plugs or holes must be situated in positions approved by the Engineer or his duly authorized representative before concreting. Where it is necessary to carry pipes, bolts, wires or any other fittings through reinforced concrete members, approved pipe sleeves must be provided and placed in position before concreting.

Where waste, ventilation, water, heating or other pipes less than 100mm diameter pass through concrete slabs and beams, uPVC (class 16) sleeve pieces of diameters shown or required shall be cast into such concrete slabs and beams.

Chases shall be formed in edges of slabs or slots shall be formed in the slabs, of sizes required, where two or more pipes pass through together.

All necessary bolts, plugs, brackets, cramps, etc. shall be cast into the concrete as the work proceeds.

PS4.2.19.24 Ties

Where brickwork abuts against concrete, the brickwork is to be tied to the concrete with galvanized hoop-iron ties 1.6mm thick by 3mm wide and approximately 600mm long to every third course of brickwork with one end of each tie cast approximately 150mm deep into the concrete. Where such fixing is impossible, i.e. where steel formwork is used, the ties are to be gun-nailed against concrete with steel nails not less than 38mm long.

PS4.2.19.25 Bagged finish to concrete

Concrete surfaces to receive bagged finish shall be prepared by removing sharp projections and making good defects with 3:1 cement mortar. Finish by rubbing over the whole area with wet rough sacking and cement grout to obtain an even surface.

PS4.2.19.26 Power floated finish

Power floated finish to floors or slabs means that surfaces shall be floated mechanically to a smooth and even finish before the concrete has set. Small areas inaccessible to the machine are to be floated by hand. Under no circumstances is cement mortar to be added while floating the concrete.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS4.2.19.27 "No-fines" concrete

"No-fines" concrete, for grading flat concrete roofs and the like to falls, shall be in the proportion of 12 parts 19 iron cubical stone to 1 part cement mixed with 20l water per bag of cement and be laid to falls of not less than 15mm per linear metre for mastic asphalt and not less than 20mm per linear metre for sheet roof covering. For heavy load applications special mix designs may be required.

a) Fillets against upstands

Form triangular fillets, size 75 x 75mm, in corners with walls, kerbs, etc. neatly mitred at angles, stopped where necessary and finished smooth ready to receive waterproofing.

b) To raised floors, bases and other

"No-fines" concrete for raised floors, bases, etc. shall be in the proportions specified. Finish smooth with 3:1 sand/cement screed to receive waterproofing.

PS4.2.19.28 Cellular concrete

Cellular concrete, for grading flat concrete roofs and the like to falls, shall be laid in situ in required layers; the bottom layer having a density of 400kg/m³, dressed to falls by varying the thickness, and a 20mm thick top layer having a density of 960kg/m³.

PS4.2.19.29 Formwork

Formwork shall include all shuttering, casing and centring of material required for the laying and forming of concrete floors, slabs, beams, lintels, walls, steps, columns, piers, pilasters and any other concrete work requiring moulds or forms and shall embrace all cleats, battens, fillets, wedges, struts, trestles, braces, props, shores and other requirements of material for keeping all in correct position. All materials used for formwork must be suitable and substantial and all joints must be tight enough to prevent leakage of liquid matrix.

All formwork must be designed by the Contractor and if requested to do so, he must submit fully detailed and dimensioned working drawings to the Engineer or his duly authorized representative for checking purposes. Acceptance of the proposals shall not relieve the Contractor of his responsibility for the safety and stability thereof nor for any loss or damage arising out of defective design, materials and/or workmanship.

The formwork must be so constructed that its partial removal can be carried out to the satisfaction of the Engineer or his duly authorized representative and in such stages as are required by the working conditions. As far as possible, wedges and clamps must be used in preference to nails. All formwork in its various sections for floors, beams, etc. must be so arranged that the whole may be raised or lowered either independently or together with other sections by means of wedges or other approved methods.

Immediately before concreting is begun, the formwork in contact with the concrete must be thoroughly cleaned, wetted and kept damp whilst the concrete is being placed.

Great care must be taken to keep the formwork wedged up to its correct height and this must be checked by taking levels immediately before concreting is commenced and immediately after it has been completed.

All beams shall have a camber of 6mm to every 3m of length.

The minimum periods that the formwork to the various parts of the structure is to remain in position after concreting shall be as stated in the following table:

Description	Normal cement		Rapid hardening cement	
	Weather		Weather	
	Normal	Cold	Normal	Cold
Beam sides, walls, unloaded columns	2 days	4 days	1 days	2 days
Slabs with props left under	4 days	7 days	2 days	4 days
Beam soffits with props left under including ribbed Slabs	7 days	12 days	3 days	5 days
Removal of slab props	10 days	17 days	5 days	9 days
Removal of beam props	14 days	28 days	7 days	12 days

When determining the stripping time for formwork the weather shall be considered to be "normal" when the temperature is above 18°C and "cold" when the temperature is between 5°C and 10 °C, these being the average

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

daily temperatures of the atmosphere adjacent to the concrete. When the average daily temperature lies between the above values for "normal" and "cold" weather the minimum period for stripping of formwork shall be determined by the Engineer or his duly authorized representative.

Notwithstanding the above minimum periods, formwork may be struck immediately, once the concrete in the various parts of the concrete work has attained the crushing strengths required by the Engineer or his duly authorized representative. The crushing strengths must be determined by proper tests, which shall be carried out by the Contractor.

No formwork of any nature shall be struck, either after the elapse of the minimum periods stated in the above table or on the attainment of the required crushing strengths of the concrete, without the prior consent of the Engineer or his duly authorized representative. Such consent shall not absolve the Contractor of his responsibility for the safety of the works.

In structures having either in whole or in part, two or more reinforced concrete floors, props shall be provided under the soffits of any beam or slab of any floor which is being used to support the formwork and wet concrete of the floor above, all to the approval of the Engineer or his duly authorized representative. The props shall not be removed until the formwork supporting the concrete of the floor above has been struck.

Under no circumstances shall steel formwork be oiled where concrete is to receive plaster.

PS4.2.19.30 Smooth formwork

Smooth formwork shall be any material approved by the Engineer or his duly authorized representative which is to be used to leave concrete surfaces smooth when removed and where no other finish is to be applied.

PS4.2.19.31 Reinforcement rods

a) Mild steel

Mild steel shall comply with the requirements of SANS 920, Type A or B.

b) High tensile steel

High tensile steel shall comply with the requirements of SANS 920, Type C or D.

PS4.2.19.32 Concrete reinforcement

a) Rod reinforcement

Bending and hooking of rods shall be done in accordance with SANS 282. Rods shall be bent cold in an effective bending machine, or properly designed rod-bender using a steady pressure and not by hammering.

Diameters, lengths and positions of rods as shown on the drawings must be strictly adhered to. Joints in rods in beams, stairs, etc. shall be permitted only where shown on drawings.

Before being placed in position, the rods shall be thoroughly cleaned of all grease, dirt, bituminous material, scale and loose rust.

All distribution rods shall be straight and shall extend at least 150mm into beams or other support. Unless otherwise shown on the drawings, all joints in reinforcing rods shall be lapped 40 times the diameter of the rod. The laps shall be securely tied with 1.25mm diameter annealed mild steel binding wire.

Reinforcement for piles, column footings, columns and walls shall be tied at every intersection, or as directed or shown on drawings, with similar binding wire. Reinforcement in beams shall be tied at alternate intersections in a diamond pattern, unless circumstances demand every intersection.

Great care must be taken to retain the reinforcement in its correct position during the entire period of concreting. Blocks of fine concrete, size approximately 40 x 40mm, or plastic spacers, shall be provided on the formwork to soffits of beams to ensure that the rods are retained in position and that the correct concrete covering to the main reinforcing rods is provided. The blocks shall be of thickness required and shall be placed under the main reinforcing rods at approximately 600mm centres.

Reinforcement in the top of slabs and the like shall be retained in position by means of cradles (stools), formed of steel reinforcing rod as follows:

- R10 for height range 100-300mm and maximum width of 300mm.
- R12 for height range 310-500mm and maximum width of 45 mm.

Recommended spacing of supports for horizontal bars in slabs:

- not further than 600mm apart (cradles ± 1000 mm c/c in both directions) for bar diameters up to 12mm.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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Scope of Work

- not further than 1,000mm apart (cradles ± 1 500 mm c/c in both directions) for bar diameters of 16mm and over.

Stools are to be placed on the bottom layer of reinforcement, securely retained in position and with correct concrete cover as specified. Cradles are to be securely wired to the slab reinforcement with binding wire. Beam rods in different layers shall be separated by means of steel spacer bars of suitable diameters and lengths.

Double mats in concrete walls shall be kept in their respective positions by means of suitable steel clips.

Recommended spacing of supports for vertical bars in walls:

- 1,000mm centres in both directions for bars up to 12mm diameter; and
- 1,500mm centres in both directions for bars of 16mm diameter and over.

Supports can be spaced more closely by the design Engineer, depending upon the circumstances.

All stirrups shall be properly fastened to the rods so as to retain their relative positions during the entire period of concreting.

Welding of main rods shall not be permitted unless approval has been given by the Engineer or his duly authorized representative. Spot welding in lieu of wiring may be used to secure rods and stirrups in position.

The concrete covering the main reinforcement, unless otherwise specified, shall not be less than that stated in the following table:

Position	Amount of cover
Soffit of slabs	The diameter of the main rods, but never less than 15mm (mm)
End of beams	40
Soffits of beams	40
Sides of beams	40
Sides of columns	40
Slab underground	40
Concrete walls	25
Walls exposed to ground	40
Ground beams	40
Foundations	75
Water retaining structures and within 1 km from coast	50

In cases not included in the above table the cover shall be not less than 25mm. Depending on the condition of exposure and fire resistance requirements, concrete cover can be varied by the Engineer but in no case shall the concrete cover be less than the diameter of the rod to be covered.

The cover shall be measured from the face of the concrete to the outside of main reinforcement nearest the face of the concrete, and shall exclude plaster and similar finishing materials.

Three samples of each diameter of reinforcing rods, each approximately 600mm long, must be taken from each consignment of rods of similar diameter, for testing. If any sample is found unsatisfactory, the whole consignment of rods from which the samples were taken shall be rejected.

Top reinforcement in cantilever slabs to be kept in position with a first row of stools or chairs 300mm from the beam or support, and thereafter at a maximum of 40 bar diameters under each bar.

The cover blocks, spacers, bars and stools or chairs are to be placed and/or wired in position by the steel fixer.

Welded steel fabric reinforcement

All welded steel fabric reinforcement shall comply with the requirements of SANS 1024. The preferred dimensions are as follows:

1	2	3	4	5	6
Fabric Reference number	Nominal pitch of wires	Nominal diameter of wires		Nominal mass*	
	Longitudinal (mm)	Cross (mm)	Longitudinal (mm)	Cross (mm)	kg/m2

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

617	200	200	10.0	10.0	6.17
500	200	200	9.0	9.0	5.00
395	200	200	8.0	8.0	3.95
311	200	200	7.1	7.1	3.11
245	200	200	6.3	6.3	2.45
193	200	200	5.6	5.6	1.93
100	200	200	4.0	4.0	1.00
772	100	200	10.0	7.1	7.72
655	100	200	9.0	7.1	6.55
517	100	200	8.0	6.3	5.17
433	100	200	7.1	6.3	4.33
341	100	200	6.3	5.6	3.41
289	100	200	5.6	5.6	2.89
278	100	300	6.3	4.0	2.78
226	100	300	5.6	4.0	2.26
133	100	300	4.0	4.0	1.33

*These mass values are based on the wires having mass of 0,00785 kg/mm² per metre of length.

The actual mass of the fabric should not differ from the nominal value by more than 6%.

PS4.2.20 Precast concrete

PS4.2.20.1 Materials

Cement, water, aggregates and reinforcement shall be as described under the concrete section.

PS4.2.20.2 Concrete, formwork and reinforcement

PS4.2.20.3 Concrete

Concrete shall be as described under the applicable concrete section(s). Unless otherwise specified a Class E concrete shall be used but with coarse aggregate of an appropriate size.

PS4.2.20.4 Mould units

The whole of this work is to be carried out by a specialist, who has appropriately skilled workers in this class of work.

All materials and finishes are to be to the approval of the Engineer or his duly authorized representative.

The moulds are to be properly constructed in the best and most up to date practice, made up in suitable sections with all necessary reinforcement, cramps, bands, bolts, etc. for fastening together and are to be constructed so that castings can be easily removed and the moulds re-used without distorting.

Those sections of the moulds which shall produce the finished faces of the units are to be specially prepared, perfectly smooth, except where the finish is of exposed aggregate, true to shape and coated with a suitable solution which shall prevent units adhering to the moulds, while not in any way discolouring the finished surfaces.

All cast units are to be properly cured and no units are to be fixed or built in until 28 days after casting.

Units are to be properly protected from the elements while curing and are to be kept wet for at least 10 days after casting by frequent spraying with clean water.

Form all necessary checkings, mortices, lugs, etc. for cramps and dowels when casting.

PS4.2.20.5 Smooth finish

Where described as "finished smooth from the mould" such surfaces shall have a layer composed of 1 part (volume) cement and 4 parts (volume) clean fine sand, packed against the faces of the mould before placing the concrete backing. The concrete backing shall be deposited into the moulds in a wet state (not dry pressed) whilst the facing is still wet.

Projections shall be rubbed off and faces shall be of even colour and free from blemishes, cracks and other imperfections. Salient angles shall be arris rounded.

PS4.2.20.6 Sizes

Sizes given are approximate, the Contractor shall be responsible for ascertaining the exact sizes based on actual measurements.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS4.2.20.7 Reinforcement

Unspecified reinforcement required for manufacturing, handling and erection purposes and for reinforcing projecting and other unwieldy portions of blocks shall be provided by the Contractor at his discretion, but such action shall be highlighted to the Engineer.

PS4.2.20.8 Bedding, joint and pointing

Blocks shall be bedded and jointed solidly in cement mortar composed of 3 parts (volume) of sand and 1 part (volume) of cement and shall be pointed with slightly keyed joints.

PS4.2.21 Masonry

(Including brickwork and stone masonry)

NOTA BENE: Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick.

PS4.2.21.1 Cement

Cement shall be as specified in the concrete section.

PS4.2.21.2 Sand

Sand shall comply with the requirements of SANS 1090, unless specialist advice is obtained. A sample of 25kg must be delivered to an approved laboratory for testing purposes.

PS4.2.21.3 Burnt clay bricks

- Burnt clay bricks shall comply with the requirements of SANS 227, and shall be equal in all respects to the selected samples.
- Clay bricks for foundations shall be as described in (a) above, but extra hard burnt.
- Where bricks with holes are used, the holes in such bricks must only be filled in solid with mortar where specifically specified.
- All bricks that do not carry the SABS Mark, must be tested by an approved laboratory.

PS4.2.21.4 Firebricks

Firebricks shall be of well burnt refractory fireclay, resistant to spalling and cracking and of same size as ordinary bricks.

PS4.2.21.5 Local stone

Local stone shall be from an approved quarry, free from defects and to the satisfaction of the Engineer or his duly authorised representative.

PS4.2.21.6 Freestone

All freestone shall be the best and most durable of its kind, free from vents, loose beds, oxide veins and other imperfections to the satisfaction of the Engineer or his duly authorised representative and shall be set on its natural quarry bed.

PS4.2.21.7 Mortar tests

a) Sampling

The frequency of sampling shall be decided by the Representative/Agent. Sufficient mortar shall be taken from each of the points of laying to prepare a composite sample to make a set of three mortar cubes.

b) Moulding

Cube moulds with a nominal size of 100mm, that comply with SANS 5863 must be used.

Fill each mould with mortar in three equal layers and compact each layer by means of a tamper. The tamper must be made of hard wood with a flat tamping surface with nominal dimensions of 50 x 25mm and shaped to provide a round stem of approximately 25mm diameter and long enough to afford sufficient hand grip. Immerse the tamper in water for 15 minutes before use.

Each layer of mortar must be compacted by means of 8 evenly spaced pressing strokes of the tamper. After the final layer has been tamped, the excess mortar must be struck off level with the top edges of the moulds.

c) Curing

Cover the test cubes (in their moulds) with an impervious sheet followed by wet matting, sacks or similar material, and store them in a place free from vibration, excessive draughts and direct sunlight.

After 24 hours mark each cube so that it can be identified. After 48 hours the cubes shall be removed from their moulds and placed into water in a curing tank at 22 to 25 °C for a minimum period of 7 days before they are transferred

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

to the approved testing laboratory. Ensure that loss of moisture is prevented during transportation and that they are well protected against damage.

d) Testing of cubes

The testing of all mortar cubes shall be done by a laboratory approved by the Engineer and in accordance with SANS 5863.

PS4.2.21.8 Cement mortar

Cement mortar shall be composed of 6 parts (by volume) of sand and 1 part (by volume) of cement. The material shall be mixed dry until of uniform colour and then water added and the mixture turned over until the ingredients are thoroughly incorporated. Cement mortar shall be produced in such quantities as can be used before commencing to set as no cement mortar that has once commenced to set shall be used in any way.

Care shall be taken in mixing cement mortar to remove from the mixing machine or platform any old mortar that has already set as such mortar may not be incorporated into any new batch.

Mortar should achieve the minimum required strength (in MPa) for the classes of mortar as set out in the National Building Regulations.

PS4.2.21.9 Compo mortar

Compo mortar shall be composed of 6 parts (by volume) of sand — depending on the quality of the sand available, 1 part of lime and 1 part of cement (by volume). The lime and sand shall be mixed dry, then mixed wet, before the cement is added, approximately ½ hour before using and the adding of the necessary additional water as required.

Compo mortar shall be produced in such quantities as can be used before commencing to set, as no compo mortar that has once commenced to set shall be used in any way.

Mortar should achieve the minimum required strength (in MPa) for the classes of mortar as set out in the National Building Regulations.

PS4.2.21.10 Brickwork

Brickwork shall be:

- wherever practicable, built in English bond. No false headers shall be used and none but whole bricks employed, except where legitimately required to form bond.
- built level and plumb with mortar as specified.
- laid on a solid bed of mortar and all joints thoroughly grouted up solid throughout the whole width of each course.
- carried up in a uniform manner, no one portion being raised more than 1.2m above another at any one time.

Clay bricks shall be well saturated with water, in the stack or dump, approximately 2 hours before being used. The tops of walls left unfinished shall be well wetted before work recommences.

NOTA BENE: *Cement or concrete bricks shall not be wetted.*

All rough and fair cutting, cutting of splays, skewbacks, chamfers, etc. shall be properly performed. Form or leave all necessary openings for pipes etc. and make good after pipes etc. are fixed in position.

PS4.2.21.11 Brickwork in cement mortar

- All brickwork below damp course level, all isolated piers three bricks wide and under, half brick thick walls and chimney stacks above ceiling level, shall be built in cement mortar as specified.
- Brick arches and brick lintels shall be built in cement mortar as specified, but in the proportion of 3:1.

NOTA BENE: *This clause is essential where compo mortar has been specified.*

PS4.2.21.12 Mortar joints

Mortar joints to brickwork generally shall be 10mm in thickness with level bedding joints.

The joints in brickwork:

- receiving plaster, tiling or similar finishes shall be raked out whilst the mortar is soft to form key for the plaster or mortar backing. The depth of the raking out shall depend on the condition of the bricks; i.e. the rougher the bricks on face the shallower the raking out and the smoother the bricks the deeper the raking out.
- shall be flushed off where walls are to be bagged, in readiness for the bagging.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS4.2.21.13 Grout in joints in brick foundation walls

All joints in brick foundation walls shall be grouted in solid with 3:1 liquid cement mortar to obviate any crevices for ant (termite) tracks.

PS4.2.21.14 Brickwork thicknesses

Walls built in two or three half brick thicknesses shall only be built where bonded brickwork (as specified) proves impractical or where required due to the prescribed bond of faced brickwork, all tied together with metal ties in accordance with SANS 28, of the Butterfly Types only, of sufficient length to allow not less than 75mm of each end to be built into brickwork. Ties shall be evenly spaced at not more than 1m apart to every third course and staggered.

PS4.2.21.15 Brickwork in linings

Brick linings to concrete shall be tied thereto with 4mm diameter galvanized crimped wire ties bent at ends and of necessary length to allow 75mm to be cast into concrete and 75mm of the other end to be built into brickwork and evenly spaced at not more than 1m apart to every third course and staggered.

PS4.2.21.16 Half brick thick walls

Half brick thick walls shall be built in cement mortar (as specified) and reinforced with 75mm wide brick reinforcement (as specified), 1 row to every 8 course in height, and built 100mm into main connecting walls. The reinforcement shall be lapped 150mm at end joints, where these are necessary, and 75mm at angles.

Brickwork shall be built level and plumb.

PS4.2.21.17 Beam filling

Beam filling shall be half brick thick, built up in mortar as used in the walls below, cut in between roof timbers and carried hard up to underside of roof covering and flushed up with mortar.

PS4.2.21.18 Reinforced brick lintels

Reinforced brick lintels shall be built with sound machine made bricks in 3:1 cement mortar with all vertical and horizontal joints filled solid with mortar throughout the required number of courses and to a distance of at least 330mm on either side of the clear opening.

The number of courses in lintels over the various size openings shall be as specified in the table hereunder and reinforcing steel wires or rods shall be built into the first horizontal joint over the bottom course to the number specified in the following table:

Clear or daylight span	Number of courses	Reinforcement
< 1m	4	One row 75mm wide brick reinforcement as described below, for each brick width of soffit.
≥ 1m ≥ 1.5m	6	Ditto
> 1.5m ≤ 2m	7	Three 6.3mm diameter mild steel rods for each half brick width of soffit.
> 2m ≤ 3m	8	Ditto

Brick reinforcement shall be of hard drawn mild steel comprising two 2.8mm diameter main wires spaced 75mm apart and 2.5mm diameter cross wires spaced at not exceeding 300mm apart, welded to main wires.

The reinforcing wires and rods shall be of length at least equal to the width of the clear opening plus 330mm at each end. The reinforcement shall be evenly spaced in the brick joints with the outer wires or rods having at least 20mm cover from face of brickwork.

Brick lintels in 270mm thick cavity walls shall be built with inner face of outer thickness, for a depth of three courses above soffit, covered with sheeting as for dampcourse, the full length of lintels, and space between the two thicknesses for the depth of the sheeting filled in solid with Class E concrete.

Where cavities continue above lintels, the sheeting shall be taken up and turned on to top of first course of brickwork to inner thickness of wall above the concrete filling in lintels. The sheeting is not required in lintels protected from the weather.

The lintels, except where built over pressed steel door frames and the like, shall be supported on temporary turning pieces of suitable and substantial construction left in position for at least 14 days for long spans (1 to 3m).

PS4.2.21.19 Hollow tile lintels

Hollow tile lintels shall be formed with approved 300 x 220 x 110mm burnt clay hollow tiles each having not more than 3 cavities. The tiles shall be set end to end and the cavities filled up solid with Class E concrete.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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Scope of Work

Lintels shall have bearings of not less than 220mm on walls at ends.

The lintels over the various size openings shall be reinforced as specified in the following table:

Clear or daylight span	Reinforcement
≤ 1m	One 12mm diameter mild steel rod in upper and lower cavities
> 1m ≥ 1.5m	One 16mm diameter mild steel rod in upper and lower cavities

The reinforcing rods shall be placed 12mm from top and bottom edges of concrete filling to upper and lower cavities respectively.

Lintels over openings not exceeding 1m wide in 1 brick thick walls shall be on flat and in all other cases shall be on edge using 2 or more lintels in walls 1 brick thick and over, built side by side, to make up the thickness of walls.

Lintels in 270mm thick cavity walls shall be in two 110mm thicknesses with inner face of outer thickness covered with sheeting as for damp-course, the full length and depth of lintel, and the space between the two thicknesses filled in solid with Class E concrete. Where cavities continue above lintels the sheeting in lintels shall be taken up and turned on to top of first course of brickwork to inner thickness of wall.

Lintels shall be made not less than 21 days before building in and shall be cured for at least 14 days by being kept damp in a shaded position.

The lintels shall be hoisted into position and bedded and grouted in solid in cement mortar.

PS4.2.21.20 Pre-stressed lintels

Pre-stressed lintels shall be vibrated concrete reinforced with stressed high tensile steel wires, or of burnt clay blocks with similar reinforcing wires embedded in grooves in the blocks in 1:3, cement:sand mortar, or of other approved form of construction.

Concrete in lintels shall attain a crushing strength of at least 34MPa at 28 days for ordinary and at 7 days for rapid hardening cement.

The reinforcing wires shall be of ductile high tensile steel wire not less than 4mm diameter and of tensile strength of at least 1,350MPa and shall be stressed to not less than 850MPa.

The lintels may be in a single width to the thickness of wall or may be in two widths, placed side by side, and shall have a depth of not less than 60mm. Top surface of lintels shall be suitably roughened, indented or shaped to give a good bond between the lintels and the mortar for the first course of brickwork above,

Lintels shall have bearings of not less than 225mm on walls at each end.

The number of reinforcing wires in lintels for the various wall thicknesses and spans shall be not less than specified in the table hereunder, and brick courses over lintels of the number indicated in the table and for the full length of lintels shall be built in 3:1 cement mortar with all joints filled solid with mortar:

Nominal wall thickness (mm)	Clear or daylight span	Number of wires (in total number of lintels used)	Number of brick courses over lintel
90 – 110	≤ 1.8m	2	3
90 – 110	> 1.8m ≤ 3m	3	4
180 – 230	≤ 1.8m	6	4
180 – 230	> 1.8m ≤ 3m	6	5
270	≤ 1.8m	7	4
270	> 1.8m ≤ 3m	7	5
340	As described for 1 of 230mm plus 1 of 110 mm, or 3 of 110 mm		

Lintels in 270mm thick cavity walls shall be in 2 widths with joint between the two arranged directly over the window or frame below, and the brickwork above shall be built in 2 x ½ brick thickness with inner face of the outer thickness covered with sheeting as for damp-course, the full length and depth of lintels, and taken down between the 2 widths of pre-stressed lintels. The cavity to height of lintel courses shall be filled with Class E concrete, and where cavities continue above the lintel courses the sheeting shall be taken up and turned on to top of first course of brickwork to inner thickness of wall above the lintel course. The sheeting is not required in lintels protected from the weather.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS4.2.21.21 Bagged finish to brickwork

Bagging to walls is to be carried out after the mortar in joints has set. The wall surfaces shall be rubbed over with wet rough sacking until all joints and crevices are filled up and an even surface is obtained. Cement grout shall be added if necessary to fill up the joints and crevices.

PS4.2.21.22 Raking out for and pointing flashings

Brick joints shall be raked out where required for fixing cover flashings and flashings, which shall be pointed in 3:1 cement mortar.

PS4.2.21.23 Mastic pointings

Where steel door and window frames are specified to be pointed with mastic compound they shall be pointed all round externally with an approved waterproofing compound of such composition that it shall not stain surrounding surfaces and that it shall adhere steadfastly, remain plastic without sagging or running, be capable of accommodating any normal movement of the joint sealed, and shall receive paint without "bleeding". The pointing material shall be forced into the joints, which shall have been previously prepared to receive same, by means of a pressure gun or by other suitable method, all in accordance with the manufacturer's instructions.

PS4.2.21.24 Building in

Ends of timbers, holdfasts, cramps, gratings, air bricks, dowels, etc. shall be built-in in cement mortar. Door and window frames, lift door frames and the like shall be set up in position for building in and securely strutted to prevent distortion whilst the brickwork, lintels, etc. are being built.

Pressed steel door frames and lift door frames shall be grouted in solid at back with cement mortar as the work proceeds.

Wood slips, fixing bricks, hoop iron roof ties, etc. shall be built in as the work proceeds.

PS4.2.21.25 Bedding

All door, window and similar frames shall be bedded and pointed in 1:3 (cement:sand) cement mortar. All wall and floor plates shall be set true and level and bedded in 1:6 (cement:sand) cement mortar.

PS4.2.21.26 Pointing of brickwork

Clean and point at the end of each working day all exposed masonry work including nail holes, existing brickwork shall be pointed, thus Pointing, repairing eroded and cracked mortar joints, shall be executed on existing and new brick where and when shown by the Engineer or his duly authorized representative. All disintegrated joints (erosions and/or cracks) shall be cleaned of all existing mortar for the full depth of the deterioration but not less than to a depth of 25mm. All joints shall be:

- brushed and washed (under pressure) clean prior pointing;
- kept wet during pointing; and
- pointed to the full depth of the cut, tooled to match existing.

Steel door and window frames shall be carefully pointed all round and made perfectly watertight.

Joints greater than 25mm shall be stage-pointed.

PS4.2.21.27 Faced brickwork

Faced brickwork shall be built fair and pointed with a keyed or recessed joint as specified. Keyed joint shall mean that the joints are to be pointed with a round jointing tool, well pressed into the joints as the work proceeds.

"Recessed joint" shall mean that the joints are to be square recessed to a depth of approximately 6mm formed with a rectangular jointing tool well pressed into the joints as the work proceeds.

Facing bricks shall be sorted by the brick manufacturer at his yard or by the Contractor on the site to ensure that proper mixing of the bricks within the colour range of each type of facing brick being used is obtained. Sudden changes in the general colour of face work in any 1 type of facing brick shall not be acceptable.

PS4.2.21.28 Fibre cement sills

Sills shall where in any way possible be in single lengths, cut between reveals, fitted with fixing lugs and solidly bedded in 1:3 (cement:sand) cement mortar with a slight projection beyond the finished wall face below.

Internal sills shall be level. External sills shall be set sloping on cut brickwork.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS4.2.21.29 Patching brickwork

Patching of existing walls and closing of openings shall be as shown. All brick shall be keyed to the existing or stepped every course with all surfaces flush with the existing surface and all joints kept on line.

PS4.2.21.30 Protect face brickwork

All face brickwork, stonework, tiling, etc. liable to damage shall be covered up and protected during the progress of the remaining work and any damage done shall be made good to the satisfaction of the Engineer or his duly authorized representative.

All face brickwork, stonework, tiling, etc. shall be cleaned down as the work proceeds and shall be covered up with paper, pasted on, or by other approved means where necessary to prevent soiling of the surfaces during the progress of the remaining work. At completion of the works the coverings shall be removed and the surfaces again cleaned down to the satisfaction of the Engineer or his duly authorized representative.

PS4.2.21.31 Cleaning

On completion of the work all masonry must be carefully cleaned down, removing all large particles of mortar with a putty knife or chisel. If acid is required for the removal of mortar stains (see note below), it shall be hydrochloric (muriatic) and not stronger than one volume of the commercial acid to nine volumes of water. Before the acid solution is applied, the surface should be thoroughly soaked with clear water, otherwise the mortar stain may be drawn into the pores causing a permanent dulling of the rich natural masonry colors. The acid solution should be applied with a long-handled stiff fiber brush, with proper precautions as to covering of clothing, hands and arms to prevent burns. It should not be placed over an area greater than 1.5 to 2.0m² before the wall is again thoroughly washed down, or preferably hosed, with clear water immediately after cleaning. It is important to remove all trace of the acid before it attacks the mortar joint. All frames, trim, sills, or other installations adjacent to the masonry must be carefully protected against contact with the acid solution.

All paving shall be thoroughly cleaned off after laying to remove all traces of mortar and other substances, covered up and protected from damage during the progress of the works and again cleaned off at completion.

Any detergent or other materials used in the cleaning down of face brickwork etc. shall be of such nature that it shall not harm adjoining paint and other finishings in any way.

NOTA BENE: *Whenever possible, smooth, light colored units should be scrubbed with warm water and soap powder in lieu of acid cleaning.*

PS4.2.22 General product requirements

PS4.2.22.1 Local content

Preference shall be given to materials fully manufactured in South Africa with South African raw materials.

PS4.2.22.2 Site service

The manufacturer shall be expected to supply samples free of any other additional charge, and the services of a qualified technical representative on all of the building sites pertaining to the particular contract in order to train the placing team in the correct application methods of the product during initial placing upon 1 week's notice.

Circumstances may necessitate follow-up inspections.

PS4.2.22.3 Shelf life

The shelf life of the offered product shall be stated and the expiry date displayed on each bag. The Contractor shall ensure that the product supplied shall survive the Contract Period, or replace the product at his cost.

PS4.2.22.4 References

The Contractor shall submit names and locations of projects in South Africa where the offered product has been in successful use for a period of at least 5 years under similar conditions and at similar rates. The Contractor shall:

- i) make arrangements with the project owners for access for such visits, if the Engineer or his duly authorized representative wish to inspect such reference project sites.
- ii) provide an acceptable alternative at the same accepted financial rate of the original proposed product, should the Engineer or his duly authorized representative find the product unacceptable.

PS4.2.22.5 Approved products

Only products that have been tested and which have been approved by the SABS shall qualify.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS4.2.22.6 Application rates

As specified by the manufacturer.

PS4.2.22.7 Control testing

The Contractor shall be required to conduct control testing as and when requested by the Engineer or his duly authorized representative, proving the quality of the product used.

PS4.2.23 Specific work-related instructions

PS4.2.23.1 Return of removed meters and fittings

On completion of the ordered Works, the Contractor shall return all removed meter and/or fittings to the Employer's Ffennel Road Depot Laboratory, and all other fittings are to be returned to the applicable area depot.

PS4.2.23.2 Avoidance of contamination

The Contractor shall:

- take reasonable care to avoid contamination of the mains whilst works are executed.
- not stack pipes in the street or stormwater channels or surface watercourses or such place that may result in its contamination.

The open ends of all new pipes shall be protected to prevent entry of foreign materials or particles to the satisfaction of the Engineer or his duly authorised representative, until such pipes are connected to the existing operational main or lead and commissioned.

PS4.2.23.3 Damage to persons and property

The Contractor shall (except if and so far as the Contract provides otherwise) indemnify and defend at his own expense the Employer, its officers, agents, employees and servants from and against all suits, claims, demands, proceedings, and liability of any nature or kind, including costs and expenses, for injuries or damages to any person or any property whatsoever which may arise out of or in consequence of acts or omissions of the Contractor or his agents, employees, servants or sub-contractors in the execution of the Contract. The provision of this clause shall extend to suits, claims, demands, proceedings and liability in the nature of workmen's compensation claims and arising out of the use of patented inventions and devices. Provided always that nothing herein contained shall be deemed to render the Contractor liable for or in respect of or with respect to:

- The right of the Employer to construct the Works or any part thereof on or through any land.
- Interference whether temporary or permanent with any right of water or other easement which is the unavoidable result of the construction of the Works in accordance with the Contract.
- Death, injuries or damage to persons or property resulting from any act or neglect of the Employer, his agents, servants or other contractors, done or committed during the validity of the Contract.

PS4.2.23.4 Interference with property access and traffic

All operations necessary for the execution of the Works and for the Construction of any Temporary Works shall, so far as compliance with the requirements of the Contract permits, be carried on so as not to interfere unnecessarily or improperly with the public convenience, or the access to, use and occupation of, public or private roads and footpaths to or of properties whether in the possession of the Employer or of any other person. The Contractor shall hold harmless and indemnify the Employer in respect of all claims, demands, proceedings, damages, costs, charges and expenses whatsoever arising out of or in relation to any such matters in so far as the Contractor is responsible therefore.

PS4.2.23.5 Contractor to keep site clean

During the progress of the Works, the Contractor shall keep the Site reasonably free from all unnecessary obstruction and shall store or dispose of any Constructional Plant and surplus materials and clear away and remove from the Site any rubbish or Temporary Works no longer required.

PS4.2.23.6 Clearance of site on practical completion

On the practical completion of the Works, the Contractor shall clear away and remove from the Site all Constructional Plant surplus materials, rubbish and Temporary Works of every kind and leave the whole of the Site and Works clean and in a workmanlike condition to the satisfaction of the Engineer or his duly authorized representative.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS4.2.23.7 Testing

Testing of the various parts of the works shall be in accordance to the relevant standard specifications, or as required by the material manufacturer.

PS4.2.23.8 Contractor's responsibility

The Contractor shall be held responsible for damage to street or road surfaces, kerbing, storm water drainage channels (gutters), existing utilities, etc. that result from his negligence during the implementation of all works. The Contractor shall repair, at his cost, any damage resulting there from, which shall be subject to approval by the owner of such asset and the Engineer or his duly authorized representative.

PS4.2.23.9 No disturbance

The Contractor shall be required to perform Works at all surface boxes and chambers with limited and approved disturbance to the existing service provision.

PS4.3 Plant and materials

The Contractor is required to provide all plant and materials necessary to carry out the works as specified and required. No additional allowances other than those already specified in the Schedule of Rates shall be allowed for with respect to plant and materials.

PS4.4 Construction equipment

See clause PS4.3.

PS4.5 Existing services

The Contractor:

- must make provision for the possible existence of numerous services (e.g.: Stormwater, Sewer, Eskom, City Power, Egoli Gas, Rand Water, Telkom, and the like) within and in close proximity to the work areas.
- is to obtain way leaves indicating the location of existing services from all affected service providers prior to the commencement of construction. The Contractor is to comply with the conditions of the way leaves received from the various service providers.
- is to ensure the protection and integrity of all existing services exposed and encountered through the course of construction activities. Adequacy in terms of protection of existing services shall be at the discretion of the Engineer. The Contractor is to make good the protection of and any breakages to existing services. The Contractor is to record on as built drawings the location of existing services or services which have been relocated during Contract Period.
- must inform the relevant service provider immediately (within 2 hours of incident) such that procedures for the reinstatement of the service can be effected, should he damage or break an existing service (whether known or unknown).
- is responsible to provide his own equipment in order to determine the location of existing services.

NOTA BENE: Drawings indicating other existing services in the vicinity of the Works are not guaranteed as being accurate, as all other services may not have been recorded or properly recorded. It shall remain the responsibility of the Contractor to perform preoperational work, to locate existing services in advance of the commencement of the Works.

PS4.6 Site establishment, facilities available and required

As the works areas are diverse and spread throughout the Midvaal Local Municipality, no provision has been made for site establishment. Storage and transport of fittings, materials and equipment shall be the responsibility of the Contractor.

Site will be established as per scope of work issued to the contractor, after the set scope is completed, the contractor will have to de-establish site.

PS4.7 Site usage

Site usage shall be limited to hours as specified in the Contract Data.

PS4.8 Permits and wayleaves

The Contractor shall be required to obtain permits and wayleaves from all the applicable service providers within the jurisdiction of the Midvaal Local Municipality.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS4.9 Alterations, additions, extensions and modifications to existing works

The Contractor is required to verify the accuracy of all drawings and levels provided by the Engineer prior to commencing with any construction activities

PS4.10 Inspection of adjoining properties

The Contractor shall carry out inspections and evidence collection, as he deems appropriate, of properties adjoining the works to ensure that in the event of a claim arising from any of the owners of the adjoining properties for damage to property and the like, the Contractor has substantial evidence to support or refute such claims. The Contractor accepts full liability and responsibility for damage which he causes to adjoining properties as well as any costs involved in refuting or processing such claims.

PS4.11 Water, sanitation and electricity for construction purposes

PS4.11.1 Water

The Contractor shall make his own arrangements with the Midvaal Local Municipality to obtain a potable water metered standpipe connection for which at least 14 days' notice shall be given. The size of the connection provided will be as specified in the Water and Sanitation By-laws.

PS4.11.2 Sewer

The Contractor shall provide, maintain, move to positions as required and finally remove proper sanitary accommodation at each work front. Sanitary accommodation shall be properly screened and its use strictly enforced.

The situation of sanitary accommodation prescribed in terms of the Sanitary General By-Laws shall be approved by the Engineer as being convenient for the person for whose use it is intended. The sanitary accommodation provided must be adequately ventilated, properly disinfected and kept in a thoroughly clean condition at all times.

The Contractor shall bear all costs associated with the provision of sanitary accommodation. Compensation for these costs will be made under the relevant item in the Schedule of Quantities.

PS4.11.3 Power

The Contractor shall make arrangements with the relevant authority for the supply and distribution of power for purposes of this Contract, the cost of which shall be deemed to be included in the rates inserted in the Schedule of Quantities.

Power used for carrying out of the works in accordance with these Specifications will not be subject to measurement or payment.

PS4.11.4 Survey control and setting out of the works

The Contractor is to confirm the levels and coordinates of all benchmarks prior to commencing with construction.

PS4.12 Building in Pipework

Where pipework is to pass through or be set into concrete work, any external coating on the portion of pipe within the concrete work shall be removed, and the surface thoroughly cleaned.

The pipework shall be set into exact position in the shutters before the concrete is placed and the concrete thoroughly compacted and worked around the pipework. Alternatively, at the discretion of the Engineer and at no extra cost unless specifically provided for in the Bill of Quantities, holes may be left in the concrete into which the pipework shall be set, whereupon the space around the pipework shall be caulked with mortar having just sufficient water to ensure cohesion and water tightness and thereafter the caulking shall be properly cured. Pipework for final alignment may only be built into concrete by the alternative method.

PS4.13 Testing, disinfecting and scouring

This clause must be read in conjunction with clause 5.10 of SABS 1200L. Before trenches are filled in over joints, all pipelines are to be hydraulically tested by the Contractor to a pressure fixed by the Engineer, but not exceeding 75% of the pipe test pressure at the factory. All such tests are to be carried out in the presence of the Engineer at such times and in such sections as the Engineer may direct. The Engineer shall be given not less than three days' notice of readiness to test.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

The Contractor shall provide the force pumps, pressure gauge, all necessary tools and fittings and the labour required for testing. He shall ensure that all valves in the section under the test are properly secured and closed and that no pipe or fitting will move.

The section to be tested shall be filled with water, care being taken that all air is expelled. The test pressure shall then be applied slowly by means of the force pump and shall be maintained by continuous pumping for at least 30 minutes or such longer period as may be necessary to permit thorough examination of all joints and fittings. There shall be no perceptible leak throughout the whole length under test and the amount of water pumped into the pipeline to maintain the test pressure shall not exceed one litre per hour per 10mm diameter of pipe per kilometre of length being tested. Any defect revealed by the test shall be made good and the section shall be re-tested until a satisfactory test is obtained.

The length of pipe laid but not satisfactorily tested shall not exceed 600 metres, except with the permission of the Engineer.

Should the Engineer not be satisfied with the care taken by the Contractor in cleaning out the pipework before laying and excluding foreign material, the Contractor shall, after completion of testing, scour out the pipelines to remove foreign matter to the satisfaction of the Engineer. Thereafter disinfect the pipelines by filling them with heavily chlorinated water containing not less than 10 p.p.m. (parts per million by weight) of available chlorine, which shall be kept in the ice for 24 hours. The Contractor shall provide the necessary chlorine (Chlorine gas, chlorinated lime, calcium hypochlorite or other approved compound), all plant equipment and labour required to introduce the chlorine into the pipelines and do everything necessary for disinfecting the pipelines and refilling them with potable water. On completion of disinfecting the pipelines shall be scoured out, using at least twice the volume of water contained in the pipe work.

On completion, the pipelines shall be left full.

Only potable water obtained from an approved source shall be used for filling, testing, disinfecting and scouring the pipelines.

PS4.14 Work on live mains

The Council will provide guidance and assistance of a practical nature for the Contractor in matters related to the closing down and recharging of the existing water system when it is necessary for him to work on the system.

The Contractor shall give 24 hours written notice to the Engineer of his intention to operate on the live water system, stating fully the proposed plan for isolating, draining, cutting, connecting, recharging and opening up the mains.

The Contractor shall also provide each affected consumer with at least 24 hours written notice in advance of his intention to close the system down. The total period of shut down including drainage and re-charging may not exceed 4 hours. All such work must be carried out between the hours of 8 a.m. and 4 p.m. The extent and frequency of the shutdown must be to the satisfaction of the Engineer.

Included in the reasons for a shut-down as required by the Contractor will be the cutting out or installing of a valve or fitting, the cutting and plugging of a main, the installation of temporary mains or connections, and so on.

VALVE MATERIAL SPECIFICATION

Valve components shall be constructed of the material specified in the following tables, unless otherwise specified in the Project Specification:

Size DN mm	Pressure Rating kPa	Hydraulic Pressure kPa	Test
40-600 mm	1600/2500/4000	2400/3750/6000	

Component	Material Type	Material Specification
1 Main Valve Body & Cover	Ductile Iron	SABS 936 Grade 42
2 Diaphragm	Reinforced Rubber	EPDM
3 Stem Seat Disc Guide	Stainless Steel	316 Stainless Steel 316 Stainless Steel SABS 936 Grade 42

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO. 8/2/2/463(2026-2029) PAGE (258)
 BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF
 AGED WATER RETICULATION PIPELINES AND ASSOCIATED
 INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS
 AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Scope of Work

	Cover Nuts, Bolts & Washes		316 Stainless Steel
4	Pilots	Bronze with Stainless Steel Trim	ASTM B-62
5	Anti Cavitations Trim/V Part	Stainless Steel	BS 970 Part 4 Gr 316 S16

PS4.18 Laying and Joints

No installation of fire hydrants shall commence until the Engineer has approved the excavations, bedding, and chamber preparation. Hydrants shall not be installed in excavations containing free-standing water. All hydrants, valves, and fittings shall be set true to the lines, levels, and positions shown on the drawings or as directed by the Engineer, within the specified tolerances.

Open ends of pipes and fittings connected to the hydrants shall be securely closed at all times to prevent ingress of soil, debris, or other foreign matter. After installation, the hydrants and associated fittings shall be inspected by the Engineer for alignment, level, and correct positioning. Any defects or inaccuracies identified shall be rectified by the Contractor at his own cost.

All valves, hydrants, and fittings must be checked and confirmed to be in proper working condition before installation. They shall be correctly positioned as indicated on the drawings or as instructed by the Engineer, and where necessary, supported on approved bedding or concrete thrust blocks to ensure stability. Care shall be taken to avoid entry of loose material or foreign matter into hydrant connections or pipework during installation.

Backfilling shall only commence after the hydrants and pipe connections have been inspected and approved by the Engineer. Selected material shall be compacted evenly on all sides of the installation to ensure stability and protection.

Jointing of all pipework associated with the hydrants shall strictly follow the manufacturer's instructions, ensuring ends and joints are completely clean and free of grit prior to assembly.

PS4.19 Backfill

Following the inspection by the Engineer with respect to the grade, direction and line, as well as the successful testing of the pipeline, the Contractor shall promptly refill trenches and excavations.

Material and Method

The Contractor shall promptly refill trenches and excavations as soon as the works have been inspected, tested and passed by the Engineer.

The backfilling in contact with pipes and for a distance of 200mm above the barrels of the pipes shall consist of selected material from the excavations, free from excess clay, vegetable matter and stones. Shortages of selected material in any section of a trench shall be made up free of additional cost by borrowing from adjacent excavations containing a surplus of suitable material.

The selected material shall be brought up in 150mm layers, uniformly moistened to the optimum moisture content to attain the specified compaction and shall be thoroughly compacted round the pipes and joints. Special care shall be taken in filling joint holes and the selected material shall be firmly punned in, slightly moistened if required in order to ensure bearing for the length of each pipe.

Sufficient topsoil shall be set aside during excavation to form not less than the upper 150mm of backfill material for re-establishment of vegetation.

In no case shall any filling be deposited in water. Trenches shall be kept free of water until backfilling has been completed. From above the top of the selected backfilling, unselected excavated material, excluding stones larger than 150mm in any dimensions, shall be used for backfilling, which shall be compacted in layers not exceeding 150mm.

Only equipment approved by the Engineer shall be used for the compaction of the fill.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

CONTRACT NO. 8/2/2/463(2026-2029) PAGE (259)
 BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF
 AGED WATER RETICULATION PIPELINES AND ASSOCIATED
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 AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Scope of Work

The superimposed loading resulting from the use of self-propelled or tractor-drawn compaction equipment shall not exceed the maximum external loading for any particular pipe in accordance with H20 Highway Loading as specified by the manufacturers.

The backfill shall be mounded to a height of 100mm above ground level with gaps allowed at regular intervals for cross drainage.

Immediately after completion of the backfilling all surplus materials shall be levelled off adjacent to the pipeline.

Any settlement during the excavation of the contract and the period of defects liability shall immediately be made good by the Contractor with topsoil of the same type as that adjacent to the trench.

The Contractor shall fill in with approved material and consolidate all cavities caused by slips, rain, floorings, etc. or any other cause whatever at his own expense, to the satisfaction of the Engineer.

The Contractor shall make good promptly, to the entire satisfaction of the Engineer at his own expense, during the whole period that the works are in his hands, including defects liability period and, as often as necessary, any settlement that may occur in the surface of roads, footpaths, private or public property, etc., caused by his trenches or excavations.

He shall be liable for any accidents caused thereby and repair at his own cost any damage caused to property by such settlement.

During the execution of the Contract, the Contractor shall maintain a regular patrol, particularly after rains, of all completed backfilled excavations, in order to locate any subsidence, which he shall make good

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS5 SITE ESTABLISHMENT

PS5.1 Services and facilities provided by the Employer

(a) Water sources

A reticulated potable water supply is available in the vicinity of the Site.

The responsible water supply authority in the area of the Site is MIDVAAL LOCAL MUNICIPALITY :
 25 Mitchell Street, Meyerton, 1960.

Should the Contractor, in complying with his obligations in terms of subclause C3.4.2.2(b): Water, wish to utilise such water supply, he shall himself be responsible for making his own arrangements with the responsible water supply authority for the supply of all water that he may require from such reticulation network for construction purposes as well as for domestic consumption.

If so required by the responsible water supply authority, the Contractor shall further be responsible, at his own cost, for making or otherwise providing metered connections to the available services at the positions specified by the water authority, as well as for the removal of such connections on completion of the Contract.

No warranty is offered or given by the Employer that the existing available reticulated water supply will necessarily be adequate for the Contractor's purposes nor that such supply is in any way guaranteed.

All charges as may be levied by the responsible water supply authority in respect of water consumed by the Contractor shall be for the Contractor's account and payment to the Contractor in respect thereof shall, in accordance with the provisions of subclause C3.4.2.2(b), be deemed to be included in the sums bid by the Contractor for the various Preliminary and General items listed in the Schedule of Quantities, as well as in the rates bid by the Contractor for the various other items listed in the Schedule of Quantities which require the consumption of water.

The Contractor shall, when reasonably required by the Engineer, produce documentary proof that all amounts as may have become due and payable by the Contractor to the responsible water authority have been promptly paid in full.

(b) Electricity supply

A reticulated electrical power supply is available in the vicinity of the Site.

The responsible electricity supply authority in the area of the Site is Midvaal Local Municipality.

Should the Contractor, in complying with his obligations in terms of subclause **C3.4.2.2(c): Electricity**, wish to avail himself of such supply, he shall, in accordance with the provisions of subclause **C3.4.2.2(c)**, and at his own cost, be responsible for making his own arrangements with the responsible electricity supply authority for the supply of all electrical power he may require from such reticulation network for construction purposes as well as for domestic consumption.

If so required by the responsible electricity supply authority, the Contractor shall further be responsible, at his own cost, for making or otherwise providing metered connections to the available services at the positions specified by the Electrical authority, as well as for the removal of such connections on completion of the Contract.

No warranty is offered or given by the Employer that the existing available reticulated water supply will necessarily be adequate for the Contractor's purposes nor that such supply is in any way guaranteed.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

All charges as may be levied by the responsible water supply authority in respect of water consumed by the Contractor shall be for the Contractor's account and payment to the Contractor in respect thereof shall, in accordance with the provisions of subclause C3.4.2.2(b), be deemed to be included in the sums bid by the Contractor for the various Preliminary and General items listed in the Schedule of Quantities, as well as in the rates bid by the Contractor for the various other items listed in the Schedule of Quantities which require the consumption of water.

The Contractor shall, when reasonably required by the Engineer, produce documentary proof that all amounts as may have become due and payable by the Contractor to the responsible water authority have been promptly paid in full.

(c) Excrement disposal

The Contractor shall make use of Flushable Chemical Toilets or better. All changes for the maintenance and cleaning of the facilities shall be borne by the Contractor and shall be deemed to be included in the sums bid by the Contractor for the Various Preliminary and General items listed in the Bill of Quantities.

(d) Area for contractor's site establishment

The Contractor shall make his own arrangements with the owners of other sites which he considers are better suited to his needs, provided always that the use by Contractor of any area other than that made available to him by the Employer shall be subject to the prior written approval of the Engineer, which approval shall not be unreasonably withheld; and provided further that the Contractor shall have no claim against the Employer in respect of any costs incurred by him, either directly or indirectly in consequence of utilising any area other than that made available to him by Employer, and which costs exceed those costs allowed for by the Contractor in his Bid.

PS5.2 Facilities provided by the Contractor

(a) Facilities for the Engineer

The contractor shall provide on the site for the duration of the contract and for the exclusive use of the Engineer and/or his Representative (as applicable), the various facilities described hereunder. All such facilities shall be provided any facility required in terms of this specification shall constitute grounds for the Engineer to withhold payment of the contractor's bidded Preliminary and General items until the facility has been provided or restored as the case may be.

(i) Office Accommodation

The Contractor shall provide on the Site *one (1)* office for the exclusive use of the Engineer. Such office(s) shall comply with and be furnished in accordance with the requirements of subclause 3.2 of SANS 1200 AB. The Contractor shall maintain the office(s) in accordance with the requirements of sub clause 5.2 of SANS 1200 AB.

Such office accommodation shall be provided within the Contractor's site establishment facilities.

(ii) Carports

The Contractor shall provide on Site for the duration of the contract, two (2) carport for the use of the Engineer and his staff. Each carport shall be constructed so that the vehicle parked under it is always protected against the direct rays of the sun. The carport area shall be at least 20m² and the floor shall be covered with a layer of crushed stone to alleviate and muddy conditions. The carport(s) shall be positioned so as to provide easy and convenient access to the Engineer's office.

(iii) Site meeting venue

The Contractor shall provide within his own site establishment facilities, a suitably furnished office or other venue capable of comfortably accommodating a minimum of

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

ten (10) persons at site meetings. The Engineer shall be allowed free use of such venue for conducting any other meetings concerning the Contract at all reasonable times.

(iv) Contract nameboards

The Contractor shall provide, erect and maintain two (2) contract name boards at such position and location directed by the Engineer, which nameboards shall, unless otherwise specified elsewhere in the contract, comply with the recommendations for the standard board of the South African Association of the Consulting Engineers, with regard to size, painting, decorating and detail, and the requirements described hereunder.

Each nameboards shall be made of tempered hardboard with a thickness of at least 12mm, so braced on the reverse side as to prevent warping and shall be mounted on two or more, as necessary, firmly planted poles. The painting of the boards shall comply with the relevant requirement of CKS 193 and colours of the paints shall be an acceptable match to the applicable colours given in SANS 1091.

The Contractor shall keep the contract name boards in good state of repair for the duration of the Contract and shall remove them on completion of the Contract.

(v) Survey equipment and assistants

• Survey equipment

The contractor shall, for the duration of the contract, provide the following survey equipment for the exclusive use of the engineer.

- 1 upright reading automatic level with tripod;
- 1 metric levelling staff with protective cover bag;
- 6 ranging rods;
- 1 100 metre Stilon tape measures;
- 1 $\pm$ kg hammer

Whenever reasonably required by the Engineer, the Contractor shall make available to the Engineer or his representative, the following additional survey equipment:

- 1 tachometer with tripod
- 1 survey staff for tachometer
- 1 Distomat, complete with tripod and fully charged battery

All such survey equipment provided by the Contractor shall be in good condition, property calibrated and fit for the purpose and shall be kept fully serviceable at all time by the Contractor at his own cost. The Contractor shall have any defective equipment repaired or replaced at his own within 12 hours after notification by the Engineer's staff.

Where required by the Engineer, the Contractor shall at his own cost promptly arrange for the recalibration of survey equipment provided.

(vi) Telephone facilities

• Cellphones

The Contractor shall provide two (2) cellphones and associated service contracts from a reputable cellular service provider. The Contractor shall further insure the cellphones against loss or damage from whatever cause arising, and shall ensure that all cellphone accounts are promptly paid on the due dates for payment. The Contractor shall further, at his own costs, ensure that prompt repair of all cellphones provided under this clause, when reasonably required by the Engineer.

The Contractor shall, on production of an itemised statement, be reimbursed only the cost of the Engineer's cellphone calls.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

(vii) Computer Facilities

The Contractor shall, for the duration of the Contract, provide the computer equipment together with the software specified hereunder, for the exclusive use of the Engineer and his staff:

- 1 computer
- 1 printer

The computer shall comply with the following minimum specifications:

- 1.8GB Dual Core – Laptop with 3G Cards
- 1GB RAM
- 120 GB hard disk
- 101 type keyboard
- 14"SVGA colour monitor
- Three-button mouse with mouse pad
- E220 modem

Printers shall, unless otherwise approved by the Engineer, be any Laserjet HP Printer or equivalent compatible

All computer software shall be properly installed on the computer, and the original licence agreements and disks shall be provided to the Engineer for safekeeping:

The following software shall be properly installed on the computer, and the original licence agreements and disks shall be provided to the Engineer for safekeeping:

- (a) Windows 11
- (b) Microsoft business 365 standard

All computer equipment provided shall be kept fully serviceable at all times by the Contractor. The Contractor shall have any defective equipment repaired or replaced at his own cost within 12 hours after notification by the Engineer's staff.

The Contractor shall further provide at his own costs, all paper and black ink cartridges and other consumables reasonably required by the Engineer.

(ix) Electricity supply for the Engineer

All electricity supply to the Engineer's office(s) and laboratory (if applicable), whether provided by the Contractor by way of a reticulated supply from a local authority or other authorised electricity supply, or by way of on-site generators, shall be regulated by the Contractor to within limits such as to prevent damage due to fluctuations in the electrical current supply that may occur to any electrical plant and equipment provided by the Contractor or the Engineer.

The Contractor shall be liable for and pay to the Engineer on demand, all costs that the Engineer may incur in the repair or replacement of any electrical equipment provided by the Engineer on Site. Reliance by the Contractor on the regulation of the electrical supply by the supplier or on current regulators fitted to generators shall not absolve the Contractor of his liabilities in terms of this Sub-clause and, where appropriate, the Contractor shall provide and install at his own cost, all such electrical current-regulating equipment as is necessary to prevent damage to the said equipment.

(x) Site instruction book

The Contractor shall always keep a triplicate book for site instructions on the Site.

(b)Water

The Contractor shall, at his own expense, be responsible for obtaining and providing all water as may be required for the purposes of executing the Contract, including water for both construction purposes and domestic use, as well as for making all arrangements in connection therewith. The Contractor shall further, at his own expense, be responsible for providing all necessities for

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

procuring, storing, transporting and applying water required for the execution of the Contract, including but not limited to all piping, valves, tanks, pumps, meters and other plant and equipment, as well as for all work and superintendence associated therewith.

The sources of all water utilised for the purposes of the Contract shall be subject to the prior approval of the Engineer, which approval shall not be unreasonably withheld.

The Contractor shall comply with all prevailing legislation in respect of drawing water from natural and other sources and shall, when required by the Engineer, produce proof of such compliance. The distribution of water shall be carried out by the Contractor strictly in accordance with the applicable laws and regulations.

All water provided by the Contractor for construction purposes shall be clean, free from undesirable concentrations of deleterious salts and other materials and shall comply with any further relevant specifications of the Contract. The Contractor shall, whenever reasonably required by the Engineer, produce test results demonstrating such compliance. Water provided by the Contractor for human consumption shall be healthy and portable to the satisfaction of the health authorities in the area of the Site.

No separate payment will be made to the Contractor for the obtainment, distribution and consumption of water, the costs of which will be deemed to be included in the Contractor's bidded rates.

(c)Electricity

The Contractor shall, at his own expense, be responsible for obtaining and providing all electricity as he may require for the purposes of executing the Contract, including electricity for both construction purposes and domestic use, as well as for making all arrangements in connection therewith.

The distribution of electricity shall be carried out by the Contractor strictly in accordance with the applicable laws and regulations.

No separate payment will be made to the Contractor for the obtainment, distribution and consumption of electricity, the costs of which will be deemed to be in the Contractor's bidded rates and prices.

(d)Excrement disposal

The Contractor shall, at his own expense, be responsible for safely and hygienically dealing with and disposing of all human excrement and similar matter generated on the Site during the course of the Contract, to the satisfaction of the responsible health authorities in the area of the Site and the Engineer. All such excrement shall be removed from the Site and shall not be disposed of by the Contractor on the Site.

The Contractor shall further comply with any other requirements in this regard as may be stated in the Contract.

No separate payment will be made to the Contractor in respect of discharging his obligations in terms of this subclause and the costs thereof shall be deemed to be included within the Contractor's bidded Preliminary and General items.

PS5.3 Site Usage

The site shall only be used for the construction of the works.

PS5.3 Permits and wayleaves

The Consultant shall be responsible to obtain all the wayleave required for this Contract.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS5.4 Permits and wayleaves

The Consultant shall be responsible to obtain all the wayleave required for this Contract.

PS5.5 Features requiring special attention

(a) Site maintenance

During progress of the work and upon completion thereof, the Site of the Works shall be kept and left in a clean and orderly condition. The Contractor shall store materials and equipment for which he is responsible in an orderly manner, and shall keep the Site free from debris and obstructions.

(b) Testing and quality control

(I) CONTRACTOR TO ENGAGE SERVICES OF AN INDEPENDENT LABORATORY

Notwithstanding the requirements of the Specifications pertaining to testing and quality control, the Contractor shall engage the services of an approved independent laboratory to undertake all testing of materials, the results of which are specified in, or may reasonably be inferred from, the Contract. These results will be taken into consideration by the Engineer in deciding whether the quality of materials utilised and workmanship achieved by the Contractor comply with the requirements of the Specifications. The foregoing shall apply irrespective of whether the specifications indicate that the said testing is to be carried out by the Engineer or by the Contractor.

The Contractor shall be responsible for arranging with the independent testing laboratory for the timeous carrying out of all such testing specified in the Contract, at not less than the frequencies and in the manner specified. The Contractor shall promptly provide the Engineer with copies of the results of all such testing carried out by the independent laboratory.

For the purposes of this clause, an "independent laboratory" shall mean an "approved laboratory" which is not under the management or control of the Contractor and in which the Contractor has no financial interest, nor which has any control or financial interest in the Contractor.

(II) ADDITIONAL TESTING REQUIRED BY THE ENGINEER

In addition to the provisions of subclause C3.4.2.5(b)(i): Contractor to engage services of an independent laboratory, the Engineer shall be entitled at times during the Contract to require that the Contractor arrange with the independent laboratory to carry out any such tests, additional to those described in subclause C3.4.2.5(b)(i), at such times and at such locations in the Works as the Engineer shall prescribe. The Contractor shall promptly and without delay arrange with the independent laboratory for carrying out all such additional testing as required by the Engineer, and copies of the test results shall be promptly submitted to the Engineer.

(III) COSTS OF TESTING

(a) Tests in terms of subclause C3.4.2.5(b)ii)

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

The costs of all testing carried out by the independent laboratory in accordance with the requirements of subclause C3.4.2.5(b)(i), above shall be borne by the Contractor and shall be deemed to be included in the bidded rates and prices for the respective items of work as listed in the Schedule of Quantities and which require testing in terms of the Specifications. No separate payments will be made by the Employer to the Contractor in respect of any testing carried out in terms of subclause C3.4.2.5(b)(1),

Where, as a result of the consistency of the materials varying or as a result of failure to meet the required specifications for the work, it becomes necessary to carry out additional tests (eg re-tests on rectified work and/or replacement materials), the costs of such additional testing shall be for the Contractor's account.

(c) Additional tests required by the Engineer

The costs of any additional tests required by the Engineer in terms of subclause C3.4.2.5(b)(i): Additional testing required by the Engineer, shall be reimbursed to the Contractor against substitution of the Provisional Sum allowed therefore in the

Schedule of Quantities; provided always that the costs of any such additional tests ordered by the Engineer, the results of which indicate that the quality of the materials utilised and/or the standard of workmanship achieved are/is not in accordance with the specifications, shall not be reimbursable to the Contractor.

(d) Subcontractors

All matters pertaining to subcontractors (including Nominated Subcontractors) and the work executed by them shall be dealt with directly between the Engineer and the Contractor in the context of all subcontract work being an integral part of the Works for which the Contractor is responsible.

The Engineer will not liaise directly with any subcontractors nor will he issue instructions concerning the subcontract works directly to any subcontractor.

All matters arising from the subcontract agreements shall be dealt with directly between the Contractor and the subcontractors and the Engineer will not become involved.

(e) Opening up and closing down of designated borrow pits

Measurement and payment for opening up and closing down designated borrow pits, including removing and stockpiling overburden and restoring the Site, shall be made under item 8.3.4 of SANS 1200 D. This item applies to all borrow material required under this Contract.

The requirements of subclause 5.2.2.2 of SANS 1200 D regarding the opening up, maintenance and closing down of borrow pits shall be adhered to.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

(f) Access to properties

The Contractor shall organise the work to cause the least possible inconvenience to the public and to the property owners adjacent to or affected by the work, and except as hereunder provided, shall at all times provide and allow pedestrian and vehicular access to properties within or adjoining or affected by the area in which he is working. In this respect the Contractors attention is drawn to Clause 17.1 of the Conditions of Contract,

If, as a result of restricted road reserve widths and the nature of the work, the construction of bypasses is not feasible, construction shall be carried out under traffic conditions to provide access to erven and properties.

Notwithstanding the foregoing, the Contractor may, with the prior approval of the Engineer (which approval shall not be unreasonably withheld), make arrangements with and obtain the acceptance of the occupiers of erven and properties to close off part of a street, road, footpath or entrance temporarily, provided that the Contractor duly notifies the occupiers of the intended closure and its probable duration, and reopens the route as punctually as possible. Where possible, such streets, roads, footpaths and entrances shall be made safe and reopened to traffic overnight. Such closure shall not absolve the Contractor from his obligations under the Contract to provide access at all times. Barricades, traffic signs, drums and other safety measures appropriate to the circumstances shall be provided by the Contractor to suit the specific conditions.

(g) Existing residential areas

Electricity and water supply interruptions in existing residential areas shall be kept to a minimum. The Engineer's approval shall be obtained prior to such interruptions and residents shall be notified in writing at least 24 hours but not more than 48 hours in advance. Supplies shall be normalised by 16:00 on the same day.

(h) Labour-intensive competencies of supervisory and management staff

Contractor having a CIDB contractor grading designation of 5CEPE/6CE or higher shall only engage supervisory and management staff in labour intensive works who have either completed, or for the period 1 April 2004 to 30 June 2006, are registered for training towards, the skills programme outlined in Table 1.

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

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

(i) Employment of unskilled and semi-skilled **workers in labor-intensive works**

(1) Unskilled and semi-skilled labour required for the execution of all labour-intensive works shall be engaged strictly in accordance with prevailing legislation and SANS 1914-5, Participation of Targeted Labour

(2) The rate of pay shall be as per sectoral guidelines.

(3) Tasks established by the contractor must be such that:

(aa) the average worker completes 5 tasks per week in 40 hours or less; and

(bb) the weakest worker completes 5 tasks per week in 55 hours or less.

(4) The Contractor must revise the time taken to complete a task whenever it is established that the time taken to complete a weekly task is not within the requirements.

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

(aa) where the head of the household has less than a primary school education;

(bb) that have less than one full-time person earning an income;

(cc) where subsistence agriculture is the source of income;

(dd) those who are not in receipt of any social security pension income.

(6) **The contractor must provide monthly statistics to the MLM indicating the number of new jobs created through this contract. This statistic must be provided with each monthly payment certificate using Councils electronic prescribed format, which will be provided by the Project Manager of this project to the successful bidder.**

(ii) SPECIFIC PROVISIONS PERTAINING TO SANS 1914-5

(1) Definition

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

(2) Contract participation goals

(aa) There is no specified contract participation goal for the contract. The contract participation goal shall be measured in the performance of the contract to enable the employment provided to targeted labour to be quantified.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

(bb) The wages and allowances used to calculate the contract participation goal shall, with respect to both time-rated and task-rated workers, comprise all wages paid and any training allowance paid in respect of agreed training programmes.

(3) Terms and Conditions for the engagement of target labour

Further to the provisions of clause 3.3.2 of SANS 1914-5, written contracts shall be entered into with targeted labour.

(4) Variations to SANS 1914-5

(aa) The definition for net amount shall be amended as follows:
Financial value of the contract upon completion, exclusive of any value-added tax or sales tax which the law requires the employer to pay the contractor.

(iii) TRAINING OF TARGETED LABOUR

- (1) The Contractor shall provide all the necessary on-the-job training to targeted labour to enable such labour to master the basic work techniques required to undertake the work in accordance with the requirements of the contract in a manner that does not compromise worker health and safety.
- (2) The cost of the formal training of targeted labour, will be funded by the MLM. This training will take place as close to the project site as practically possible.
- (3) The contractor shall be responsible for scheduling the training of workers and shall take all reasonable steps to ensure that each beneficiary is provided with a minimum of six (6) days of formal training if he/she is employed for 3 months or less and a minimum of ten (10) days if he/she is employed for 4 months or more.
- (4) The Contractor shall do nothing to dissuade targeted labour from participating in training programmes.
- (5) An allowance equal to 100% of the task rate or daily rate shall be paid by the Contractor to workers who attend formal training.

(j) Employment of local labour

It is the intention that this Contract should make maximum use of the local labour force that is presently underemployed. To this end the Contractor shall limit the utilisation on the Contract of non-local employees to that of key personnel only and to employ and train local labour to the extent necessary for the execution and completion of this Contract.

The Contractor shall fill in the form entitled Key Personnel in the Forms to be completed by the Bidder. The data stated on the above-mentioned form will be strictly monitored during the Contract period and any deviations therefrom shall be subject to the prior approval of the Engineer, which approval shall not be unreasonably withheld.

The employment of casual labour will be done in co-operation with community leaders and local structures. The bidder shall ensure that all remuneration paid to employees is in line with the relevant sectorial determination in terms of the Basic Conditions of Employment Act, No 75 of 1997, as determined by the Department of Labour.

(k) Monthly statements and payment certificates

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

The statement to be submitted by the Contractor in terms of Clause 49 of the Conditions of Contract shall be prepared by the Contractor at his own cost, strictly in accordance with the standard payment certificate prescribed by the Engineer, in digital electronic computer format. The Contractor shall, together with a copy of the digital electronic computer file of the statement, submit two (2) **A4** size paper copies of the statement.

For the purposes of the Engineers payment certificate, the Contractor shall subsequently be responsible, at his own cost, for making such adjustments to his statement as may be required by the Engineer for the purposes of accurately reflecting the actual quantities and amounts which the Engineer deems to be due and payable to the Contractor in the payment certificate.

The Contractor shall, at his own cost, make the said adjustments to the statement and return it to the Engineer within three (3) normal workings days from the date on which the Engineer communicated to the Contractor the adjustments required. The Contractor shall submit to the Engineer five (5) sets of A4 size paper copies of such adjusted statement, together with a copy of the electronic digital computer **file** thereof.

Any delay by the Contractor in making the said adjustments and submitting to the Engineer the requisite copies of the adjusted statement for the purposes of the Engineers payment certificate will be added to the times allowed to the Engineer in terms of Subclause 49.4 of the Conditions of Contract to submit the signed payment certificate to the Employer and the Contractor. Any such delay will also be added to the period in which the Employer is required to make payment to the Contractor.

(l) Construction in restricted areas

Working space is sometimes restricted. The construction method used in these restricted areas largely depends on the Contractors Plant. Notwithstanding, measurement and payment will be strictly according to the specified cross-sections and dimensions irrespective of the method used, and the rates and prices bidden will be deemed to include full compensation for any difficulties encountered by the Contractor while working in restricted areas. No extra payment nor any claim for payment due to these difficulties will be considered.

(m) Notices, signs, barricades and advertisements

All notices, signs and barricades, as well as advertisements, may be used only if approved by the Engineer. The Contractor shall be responsible for their supply, erection, maintenance and ultimate removal and shall make provision for this in his bidden rates.

The Engineer shall have the right to instruct the Contractor to move any sign, notice or advertisement to another position, or to remove it from the Site of the Works if in his opinion it is unsatisfactory, inconvenient or dangerous.

(n) Workmanship and Quality Control

The onus to produce work that conforms in quality and accuracy of detail to the requirements of the Specifications and Drawings rests with the Contractor, and the Contractor shall, at his own expense, institute a quality control system and provide suitably qualified and experienced engineers, foremen, surveyors, materials technicians, other technicians and technical staff, together with all transport, instruments and equipment to ensure adequate supervision and positive control of the Works at all times.

The cost of supervision and process control, including testing carried out by the Contractor, will be deemed to be included in the rates bidden for the related items of work.

The Contractor's attention is drawn to the provisions of the various Standardized Specifications regarding the minimum frequency of testing required. The Contractor shall, at his own discretion, increase this frequency where necessary to ensure adequate control.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

On completion and submission of every part of the work to the Engineer for examination and measurement, the Contractor shall furnish the Engineer with the results of the relevant tests, measurements and levels to demonstrate the achievement of compliance with the Specifications.

PS5.6 Extension of time due to abnormal rainfall

(a) Extension of time in respect of delays resulting from wet climatic conditions on the Site will only be considered in respect of abnormally wet climatic conditions and shall be determined for each calendar month or part thereof, in accordance with the formula given below

$$V = (Nw - Nn) + (Rw - Rn)/X$$

in which formula the symbols shall have the following meanings:

V = Potential extension of time in calendar days for the calendar month under consideration:

If V is negative and its absolute value exceeds Nn, then V shall be taken as equal to minus Nn.

When the value of V for any month exceeds the number of days in the particular month, V will be the number of days in the month.

Nw = Actual number of days in the calendar month under consideration on which a rainfall of Y mm or more was recorded on the Site

Nn = Average number of days, derived from existing records of rainfall in the region of the Site, on which a rainfall of Y mm or more was recorded for the calendar month.

Rw = Actual rainfall in mm recorded on the Site in an approved rain gauge for the calendar month under consideration

Rn = Average rainfall in mm for the calendar month, derived from existing records of rainfall in the region of the Site

The factor (Nw - Nn) shall be deemed to be a fair allowance for variations from the average number of days during which the rainfall exceeds Y mm.

The factor (Rw - Rn)/X shall be deemed to be a fair allowance for variations from the average number of days during which the rainfall did not exceed Y mm but wet conditions prevented or disrupted work.

(b) The rainfall records at rainfall station number 10476/339] Johannesburg International Airport for the period January 2016 to December 2016 are reproduced in the accompanying table, and the monthly averages (Rn and Nn) for this period shall, for the purposes of this Contract be taken as normal and as the values to be substituted for Rn and Nn in the formula above. The values of X and Y shall be 20 and 10 respectively.

The potential extension of time V has been calculated for each month and year of the period concerned to indicate the possible effect of the rainfall formula. The values of V were obtained by applying the rainfall formula and using the actual rainfall figures and the calculated values of Rn and Nn indicated in the table.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

- (c) The extent of any extension of time which may be granted to the Contractor in respect of wet climatic conditions (whether normal or abnormal) shall be determined as the algebraic sum of the "V" values for each month between the Commencement Date and the Due Completion Date of the Contract, calculated in accordance with subclause C3.4.2.6(a) above;

provided always that

- (i) rainfall occurring within the period of the Contractor's Christmas shut-down period shall not be taken into account in the calculation of the monthly "V" values;
- (ii) rainfall occurring during any period during which the Contractor was delayed due to reasons other than wet climatic conditions on the Site, and for which delay an extension of time is granted by the Engineer, shall not be taken into account in the calculation of the monthly values;
- (iii) if the algebraic sum of the "V" values for each month is negative, the time for completion will not be reduced on account of subnormal rainfall, and
- (iv) where rainfall is recorded only for part of a month, the "V" value shall be calculated for that part of the month using pro rata values for R_n and N_n ,

The Engineer shall, simultaneous with granting any extension of time in terms of this clause, revise the Due Completion Date of the Contract to reflect an extension of time having been granted in respect of wet climatic conditions, to the extent of the algebraic sum of all the "V" values for all the preceding months of the Contract, less the aggregate of the " N_n " values for the remaining (unexpired) months of the Contract (viz less aggregate of the potential maximum negative "V" values for the remaining Contract Period). Thus, provided that where such period is negative, the Due Completion Date shall not be revised.

Any extension of time in respect of wet climatic conditions granted in terms of this clause shall not be deemed to take into account delays experienced by the Contractor in repairing or reinstating damage to or physical loss of the Works arising from the occurrence of abnormal climatic conditions. Extension of time in respect of any such repairs or reinstatement regarding damage shall be the subject of a separate application for extension of time in accordance with the provisions of Clause 42 and Clause 48 of the Conditions of Contract and the monthly averages (R_n and N_n) for this period shall, for the purposes of this Contract be taken as normal and as the values to be substituted for R_n and N_n in the formula above. The values of X and Y shall be 20 and 10 respectively.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

The potential extension of time V has been calculated for each month and year of the period concerned to indicate the possible effect of the rainfall formula. The values of V were obtained by applying the rainfall formula and using the actual rainfall figures and the calculated values of Rn and Nn indicated in the table.

- (c) The extent of any extension of time which may be granted to the Contractor in respect of wet climatic conditions (whether normal or abnormal) shall be determined as the algebraic sum of the "V" values for each month between the Commencement Date and the Due Completion Date of the Contract, calculated in accordance with subclause C3.4.2.6(a) above;

provided always that

(v) rainfall occurring within the period of the Contractor's Christmas shut-down period shall not be taken into account in the calculation of the monthly "V" values;

(vi) rainfall occurring during any period during which the Contractor was delayed due to reasons other than wet climatic conditions on the Site, and for which delay an extension of time is granted by the Engineer, shall not be taken into account in the calculation of the monthly values;

(vii) if the algebraic sum of the "V" values for each month is negative, the time for completion will not be reduced on account of subnormal rainfall, and

(viii) where rainfall is recorded only for part of a month, the "V" value shall be calculated for that part of the month using pro rata values for Nn and Rn,

The Engineer shall, simultaneous with granting any extension of time in terms of this clause, revise the Due Completion Date of the Contract to reflect an extension of time having been granted in respect of wet climatic conditions, to the extent of the algebraic sum of all the "V" values for all the preceding months of the Contract, less the aggregate of the "Nn" values for the remaining (unexpired) months of the Contract (viz less aggregate of the potential maximum negative "V" values for the remaining Contract Period). Thus, provided that where such period is negative, the Due Completion Date shall not be revised.

Any extension of time in respect of wet climatic conditions granted in terms of this clause shall not be deemed to take into account delays experienced by the Contractor in repairing or reinstating damage to or physical loss of the Works arising from the occurrence of abnormal climatic conditions. Extension of time in respect of any such repairs or reinstatement regarding damage shall be the subject of a separate application for extension of time in accordance with the provisions of Clause 42 and Clause 48 of the Conditions of Contract.

RAINFALL TABLE

If no suitable rainfall records are available, the above formula will not apply.

Y = 10 mm/24 hour day

X = 20 mm

STATISTICAL INFORMATION - 2016: OR INTERNATIONAL AIRPORT ARS 26°23'38"S 27°35'49"E 1693 and Height: 960m)

Month	RAINFALL

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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Scope of Work

	Nn = Actual number of days during the calendar months in which a rainfall of more than Y-mm has been received	Rn Average monthly rainfall
January	14	147.2
February	13	88.0
March	7	179.0
April	4	26.0
May	2	108.0
June	2	16.0
July	2	30.6
August	0	0.0
September	1	1.0
October	10	86.0
November	19	229.0
December	18	224.00
TOTAL	92	1134.8

PS5.7 Plant And Materials

Plant and materials supplied by the employer The Employer shall not supply any plant or materials.

PS5.8 Materials, samples and shop drawings

(a) Samples

Materials or work which do not conform to the approved samples submitted, will be rejected. The Engineer reserves the right to submit samples to tests to ensure that the material represented by the sample meets the specification requirements.

The costs of any such tests conducted by or on behalf of the Engineer, the results of which indicate that the samples provided by the Contractor do not conform to the requirements of the Contract, shall be for the Contractors account.

PS5.8 Construction Equipment

CONSTRUCTION EQUIPMENT

Requirements for equipment

The Contractors equipment shall be adequate to construct the works.

Equipment provided by the employer

The Employer will not provide any equipment.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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Scope of Work

EXISTING SERVICES

Known services

All known services are indicated on the drawings. Exact positions cannot be guaranteed.

Treatment of existing services

The Contractor shall ascertain and observe all conditions laid down by the relevant authorities for the execution of the work in the vicinity of their services.

Damage to services

If any services are damaged during excavations, the relevant service provider and the Engineer shall be notified immediately. The contractor shall be responsible for all costs to repair damaged services.

Reinstatement of services and structures damaged during construction

When the service provider does the permanent reinstatement, the cost involved shall be payable by the contractor. When the contractor does the permanent reinstatement, the method of reinstatement shall be approved by the services provider

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS5.9 Variations and Additions T0 Sans 1200 Standardized

SPECIFICATIONS AND PARTICULAR SPECIFICATIONS

SANS 1200 A	:	General (1986)
SASN 1200 C	:	Site clearance (1980)
SANS 1200 D	:	Earthworks (1988)
SANS 1200 DB :		Earthworks (pipe trenches) (1989)
SANS 1200 DM :		Earthworks (Roads, Subgrade) (1981)
SANS 1200 G	:	Concrete (structural) (1982)
SANS 1200 GF :		Prestressed concrete (1980)
SANS 1200 L	:	Medium-pressure pipelines (1983)
SANS 1200 LB :		Bedding (pipes) (1983)
SANS 1200 LE :		Stormwater drainage (1982)
SANS 1200 M	:	Roads (general) (1996)
SANS 1200 ME :		Subbase (1981)
SANS 1200 MF :		Base (1981)
SANS 1200 MJ :		Segmented paving (1984)
SANS 1200 MK :		Kerbing and channelling (1983)

The following variations and additions to the SANS 1200 Standardized Specifications referred to above apply to this Contract. The prefix PS indicates an amendment to SANS 1200. The letters and numbers following these prefixes respectively indicate the relevant Standardized Specification and clause numbers in SANS 1200 to which the variation or addition thereto applies.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

PS6 MANAGEMENT OF THE WORKS

PS6.1 Applicable SANS 1921 Standards

SANS 1921-1:2004: Construction and management requirements for works contracts Part 1: General engineering and construction works shall be applicable to this Contract

PS6.2 Programming

a) Planning

The Contractor shall ensure that he:

- 1) is well informed with regard to the Employer's overall implementation programme for the implementation of its prepayment programme and avail resources as required to efficiently complete each Works order; and
- 2) delivers good and services timeously as not to unnecessarily delay any other contractors, service providers and suppliers.

b) Programming

In order to ensure a clear understanding, at the inception of each Works Order, of the programming and documentation format requirements, the Contractor shall appoint a project programmer/ planner for liaison during the Contract. The Contractor shall for the Contract Period provide and regularly update (maximum monthly) a Contract/Works Order Programme.

PS6.3 Sequence of the works

The sequence of works to be executed shall be agreed between the Engineer and the Contractor.

Contractor shall address matters regarding the approval of his Health and Safety Plan, thereafter the works shall commence

PS6.4 Software application for programming

The construction programme shall be completed in Microsoft ® Project Standard 2007 or compatible software. The construction programme and updated versions thereof shall be made electronically available to the Engineer.

PS6.5 Methods and procedures

The methods and procedures for the execution of the works shall be in accordance with the standard specifications and the variations and additions thereto.

PS6.6 Quality plans and control

The Contractor shall be required to provide and maintain a quality plan to ensure that the quality of all work components is of a high standard.

PS6.7 Accommodation of traffic on public roads occupied by the Contractor

PS6.7.1 Accommodation of traffic

The Contractor shall ensure the safe accommodation of traffic at all areas where the work may impact traffic and shall provide all delineators, watching, lighting, signs and barricades required by the road authorities, and in **accordance with Chapter 13 of the South African Road Traffic Signs Manual.**

PS6.7.2 Access to properties

Adequate access shall at all times be maintained to public and private properties unless otherwise arranged and approved. Details of the proposed means of access shall be submitted before any such access is restricted. Claims arising from impeded access shall be the responsibility of the Contractor.

At least 7 days before commencing any work affecting access to a property, the Engineer and the occupier/owner of each such property shall be notified of the Contractor's intention to commence work, the date of commencement, expected duration and arrangements which shall be made regarding maintenance of access.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS6.8 Other contractors on site

There may be other contractors working within the same area. As such, the Contractor is required to make adequate allowances for such possibilities. No claims with respect to works being carried out by other contractors shall be entertained by the Engineer.

PS6.9 Testing, completion, commissioning and correction of defects

The onus is on the Contractor to produce goods and services which shall conform in quality and in accuracy of detail to the requirements hereinafter specified. The Contractor must clearly understand that it is not the duty of the Engineer or his representative to act as foreman or surveyor on the Works.

The Contractor shall, at his own expense, provide experienced engineers, foremen and surveyors together with all transport, instruments and equipment for supervising, checking and controlling the work.

The act of passing any completed work or accepting materials or goods for payment by the Engineer shall not be construed as signifying approval or acceptance thereof. Failure on the part of the Engineer to reject any defective work or material or goods shall not in any way relieve the Contractor of his obligations under the Contract, nor prevent later rejection when such work or material is discovered.

The Contractor shall, when submitting any work to the Engineer for examination, satisfy himself by testing, measurement and otherwise as may be necessary that the work does in fact meet with the requirements of the Specifications. This information shall be submitted with the Contractor's request for examination and the Engineer shall be authorised to decide on the number and type of tests, measurements, etc. required to enable him to judge the quality of the work. The submission of this information shall in no way diminish the authority of the Engineer to conduct such tests as he may consider necessary in order to determine the quality of the work performed by the Contractor, nor shall he be bound to take account of the Contractor's tests, measurements, etc. should he consider these to be either incorrect or not representative.

Quality control and completion tests shall be in accordance with the relevant standard and amended specifications and additional specifications.

PS6.10 Recording of Weather and Abnormal Rainfall

If during the time for completion of the Works, or any extension thereof, should abnormal rainfall or wet conditions occur, then an extension of time in accordance with Clause 5.12.1 to 5.12.3 of the General Conditions of Contract shall be granted by the Employer, calculated on the critical path method. It shall be applied as follows:

A delay caused by inclement weather conditions will be regarded as a delay if, in the opinion of the Engineer, all progress on an item or items of work on the critical part of the working programme of the Contractor has been brought to halt. Delays on working days only (based on a five day working week) will be taken into account for the extension of time, but the Contractor shall make provision in his programme of work for an expected delay of **10 (ten)** working days caused by normal rainy weather, for which he will not receive any extension of time.

Daily records of rainfall and activities within the critical parts affected shall be kept by the Contractor and signed by the Engineer's representative on the site. For this, accurate rain gauging shall be taken at a suitable point on the site, and the Contractor shall, at his own expense, take all necessary precautions to ensure that unauthorised persons do not interfere with the rain gauges. Failure to produce signed copies of the above records on a daily basis to the Engineer's representative on the site after the event having occurred will be deemed to be in breach of this Clause and will not be admissible for purposes of seeking an extension of time.

The Contractor shall be permitted to take his own rainfall measurements on site subject to the Engineer's approval, but access to the measuring gauge(s) shall be under the Engineer's control.

The Contractor is to provide and install all the necessary equipment for accurately measuring the rainfall as well as to provide, erect and maintain a security fence plus gate, padlock and keys at each measuring station, all at his own cost.

The values of N_n , R_n , x and y for use in Clause 5.12.2.2 of the Special Conditions of Contract shall be as follows:

Source of Information : Weather Bureau, Department of Environment
Rainfall Station : Goudkoppies O475736A2, Lat 2616, Long 2755
Period : 1990 to 1999

Month	N_n	R_n	Month	N_n	R_n
January	10,9	116,1	July	0,2	0,7

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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Scope of Work

February	6,8	84,9	August	0,9	3,9
March	8,5	112,8	September	2,7	16,5
April	2,8	24,9	October	7,2	92,5
May	1,5	18,3	November	9,8	88,0
June	0,5	1,6	December	11,6	130,9

Average Annual Rainfall 691,0

x = 20 mm

y = 10 mm

PS6.11 Format of communications

All communication shall be in writing and any verbal agreements shall only be binding once confirmed and agreed to in writing. Communication via, registered post, email or facsimile is acceptable.

PS6.12 Key personnel

PS6.12.1 General

The Contractor is to provide the Curriculum Vitae's of key personnel to be employed on the project as well as the person's position and responsibilities within the project team.

PS6.13 Management meetings

Fortnightly progress meetings shall be arranged and facilitated by the Engineer. Senior Contractor management staff attendance shall be compulsory.

The Contractor shall be required to provide reporting with regard to project progress, resources (human, plant and equipment), community issues, environmental and health and safety aspects.

PS6.14 Forms for contract administration

The Contractor shall maintain a file which shall contain project information related to project progress, resources (human, plant and equipment), community issues, environmental, health and safety aspects, penalties imposed, claims lodged and outcomes, disputes and resolutions, payment and variations.

PS6.15 Daily records

The Contractor shall keep daily site records as required by the Engineer or his representative and as specified herein. Daily records shall include, labour, plant, materials, rainfall, environmental issues, health and safety issues, daily diary and the like. Such records are the property of the Employer and shall be made available to the Engineer or his representative within 24 hours from being requested to do so.

PS6.16 Bonds and guarantees

The Contractor shall within 21 days from the date of Offer Acceptance by the Employer with a Surety Bond in the form of a Bank Guarantee, Bank Transfer or a Guarantee from an approved Insurance Company to the satisfaction of the Employer in the form included in the Tender Documents. The Bank Guarantee shall be for an amount equal to ten percent (10%) of the Tender Sum, for the due and punctual fulfilment and completion of all the Contractor's obligations under the Contract. No Extension of Time or any variation of the Contract nor the determination of the Contract by the Employer shall in any way impair or diminish or terminate any liability to the Employer under and by virtue of such Surety Bond. The cost of the Surety Bond to be so entered into shall be at the expense in all respects of the Contractor; the Surety Bond to be released upon issue of the Engineer's Certificate of Completion of the Works. Should the Contractor, when notified of the acceptance of his offer, fail to provide an approved Surety Bond within 21 days, then the Employer may, at his sole discretion:

- Grant the Contractor a further reasonable period in which to provide the bond; or
- Withdraw his acceptance of the tender in which case the Contract shall be deemed to be void, but without prejudice to the Employer's rights to recover whatever damages he may have suffered by virtue of the Contractor's failure to fulfil his obligations.

PS6.17 Payment certificates

Payment certificates shall be submitted to the Engineer, in the format required on a monthly basis.

PS6.18 Permits

Refer to PS 4.8

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS7 FEATURES REQUIRING SPECIAL ATTENTION

PS7.1 Security

The Contractor shall be responsible to provide security on site(s):

- as he deems necessary. The Employer shall not be held responsible for any loss or damage(s) suffered by the Contractor, his plant, equipment, materials, subcontractors or employees as a result of a security incident of any nature.
- which have been identified, by the Engineer, as potential high risk areas requiring security during site visits for the duration of the contract. The Contractor shall arrange that the security meet with the Employer representative at a convenient and safe location and thereafter escort to the necessary areas.

PS7.2 Operation of valves

Only employees of the Employer are permitted to operate primary and secondary water mains valves.

PS7.3 Work outside normal working hours

The Contractor is permitted to work outside of normal working hours only upon obtaining written permission from the Engineer. It is anticipated that all switch-over work (tying new infrastructure into existing) shall be completed during hours that shall not affect the supply of water to affected communities.

PS7.4 Sanitary facilities

The Contractor is required to supply adequate sanitary facilities for employees.

PS7.5 Community liaison and community relations

For the purpose of this project a community liaison officer may not be required; however the Contractor shall be required to inform the community with regards to his activities in particular where such activities may affect the service provision to the affected community (See PS6.6).

PS7.6 Notices and warning to consumers

The Contractor shall ensure he maintains service (water and/or sanitation) provision at all times whilst executing the works where:

- The maximum amount of time of no service shall be 8 hours for any property. Any service disruption longer than 8 hours shall be temporary bypassed by methodologies approved by the Engineer or his duly authorized representative.

The Contractor must provide written notice to all consumers affected by the construction activities. The written notice shall outline the:

- nature of the works;
- expected inconvenience / disruption that the consumers can expect;
- timeframes for construction; and
- contact details in case of problems encountered.

PS7.7 Continuity of service supply to customers

The activities of the Contractor shall not unreasonably interfere with the service supply to customer and be executed outside the agreed and notice time frames.

Where the Contractor cannot reasonably re-establish services within times agreed and notice time frames he shall proceed to contact the affected customer and make alternative arrangements that shall be acceptable to the customer and the Employer.

The associated costs of any customer claim arising from a lack of service provision due to the Contractor's negligence or his disregard for the Employer's SOP or his disregard for the conditions of this Contract, whilst executing activities as per this Contract, shall be solely for his the account. The Engineer shall have the right to make equivalent monetary deductions from monies owed to the Contractor or from his Guarantee under this Contract and any other active contract(s) with the Employer.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS7.8 Conditions and procedures for service agencies

The Contractor shall comply with the conditions and procedures of the various affected service agencies, as mandated in their associated wayleaves.

PS7.9 Generic labour intensive specifications

EPWP guidelines shall be applicable to this Contract.

PS7.10 Acceptance of works and causes for rejection

PS7.10.1 Acceptance of implemented and associated works

The Engineer or his duly authorized representative shall only accept works complying with the Employer's requirements and/or specifications.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

PS8 HEALTH AND SAFETY FOR CONSTRUCTION WORK

Tendering Contractors are to prepare Health and Safety Plans. The legal imperatives for this requirement stem from the Construction Regulations (2003), and more specifically the following:

- Regulation 4(1)(a): A client shall prepare a documented health and safety specification for the construction work, and provide any principal contractor who is making a bid or appointed to perform construction work for the client with the same
- Regulation 4(1)(d): A client shall take reasonable steps to ensure that each principal contractor's health and safety plan is implemented and maintained on the construction site.
- Regulation 4(2): A client shall discuss and negotiate with the principal contractor the contents of the health and safety plan and thereafter finally approve the health and safety plan for implementation.
- Regulation 5(1): A principal contractor shall provide and demonstrate to the client a suitable and sufficiently documented health and safety plan, based on the client's documented health and safety specification.

PS8.1 Project-related Occupational Health and Safety Risks

According to the Construction Regulations (2003), a Health and Safety Plan "means a documented plan which addresses hazards identified and includes safe work procedures to mitigate, reduce or control the hazards identified". Apart from complying with the Health and Safety Specification, attention is drawn to the identification and assessment of risks. The tendering Contractors are required to consider *inter alia* the following risks (where applicable):

Project- and site-specific risks:

- Existing services;
- Third party exposures;
- Traffic control (heavy machinery);
- Operation of machinery;
- Use of portable electrical tools;
- Use of hand tools;
- Location of campsite;
- Overhead electricity cables;
- Excavation of trenches;
- Access to excavations;
- Safeguarding of deep excavations;
- Offloading of material;
- Storage of material;
- Storage of hazardous materials;
- Working in elevated positions;
- Arc welding;
- Handling of compressed gas cylinders;
- Electrical distribution boards; and
- Workshops.

Safe work and emergency procedures need to be prepared to address the abovementioned risks.

PS8.2 Guide to risk assessments

PS8.2.1 Nine steps to Effective Risk Assessments

- Step 1 Identifying the current as well as emerging hazard, risks or exposures.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

- Step 2 Aim to identify major hazards, don't waste time on the minor and detail except if such hazard has the potential be repeat itself on a frequent basis.
- Step 3 Involve as many people as possible in the ongoing risk assessment process especially those at risk.
- Step 4 Gather all the information and analyze it.
- Step 5 Look at what actually could or has occurred including non-routine operations.
- Step 6 Use a systematic approach to ensure all hazards are adequately addressed.
- Step 7 Assess the risks identified or the risk has occurred by taking into account the effectiveness of current as well as controls under consideration.
- Step 8 Ensure the process is practical, realistic, cost and business effective.
- Step 9 Always record the assessment in writing including i.e. assumptions, date and why a particular decision has been made.

PS8.2.2 How serious is it?

Probability

- A Common
- B Has Happened
- C Could Happen
- D Not Likely
- E Practically impossible

Consequences

- 1 Fatality or permanent disability.
- 2 Major injury.
- 3 Average Lost Time Injury.
- 4 Minor Injury.
- 5 Medical Treatment or less.

		Probability				
		A	B	C	D	E
Consequence	1	1	2	3	4	5
	2	2	3	4	5	6
	3	3	4	5	6	7
	4	4	5	6	7	8
	5	5	6	7	8	9
Risk rating		Action				
1 - 3 =		Immediate (within 1 week).				
4 - 5 =		Within 1 month.				
6 - 7 =		> 4 weeks.				
8 - 9 =		No action but will consider from time to time.				

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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PS9 ENVIRONMENTAL MANAGEMENT PLAN

Environmental mitigation measures are actions needed to align a project implementation phase with environmental control principles, where potential impacts to the natural and social environment are prevented, minimised or remediated. Environmental safeguarding is governed by various sets of legislation, with the most noteworthy for this project constituting the National Environmental Management Act (No. 107 of 1998) and the National Water Act (No. 36 of 1998).

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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PORTION 2: VARIATIONS AND ADDITIONS TO THE STANDARDISED SPECIFICATIONS

SANS 1200A: CIVIL ENGINEERING CONSTRUCTION: PRELIMINARY AND GENERAL

VARIATIONS

Delete the following standard referenced clause:

Delete standard clause	Description	Comments
5.1.1	Setting out of the works	See clause PS 4.12: <i>Survey control and setting out of the works</i>
5.2	Watching, barricading, lighting and traffic crossings.	See clause PS 5.7 <i>Accommodation of traffic on public roads occupied by the Contractor</i>
8.8.4 (d)	Temporary protection, as required in terms of the project specification, of service.	Refer to SANS1200DB 8.3.5, It shall be deemed that the Contractor has allowed for all services protection under SANS1200DB 8.3.5 during all required construction activities.

Delete and replace the standard referenced clauses:

Delete standard clause	Replace with PSA...
5.4	PROTECTION OF OVERHEAD AND UNDERGROUND SERVICES. The Contractor shall be held responsible for any damage to known services (i.e. services that are within the Site of the Works and are shown on the drawings) and he shall take all necessary measures to protect them. All work or protective measures shall be subject to approval. In the event of a service being damaged, the Contractor shall immediately notify the authority concerned as well as the Engineer or his duly authorized representative. The Contractor shall not repair any such service unless instructed to do so. Where no underground services are shown on the drawings or scheduled but the possibility of their presence can reasonably be inferred, the Contractor shall, in collaboration with the Engineer or his duly authorized representative, ascertain whether any such services exist within the relevant section of the Site. The Contractor shall complete such investigation well in advance of the start of construction work in the said section and he shall make whatever arrangements are necessary for the protection, removal or diversion of the services before any construction work commences. As soon as any underground service not shown on the drawings is discovered, it shall be deemed to be a known service and the Contractor shall be held responsible for any subsequent damage to it. If such service is damaged during the course of its discovery, the cost of making good such damage shall be met by the Employer unless he establishes that the Contractor did not exercise reasonable diligence and that the damage was avoidable. Where the authority concerned elects to carry out on its own account any alterations or protective measures, the Contractor shall co-operate with and allow such authority reasonable access and sufficient space and time to carry out the required work. Permanent alterations to or permanent diversion of services necessitated by the execution of the Works and authorized shall be paid for in terms of the conditions of contract, but no such work shall be paid for if it has not been previously inspected and if proper written instructions have not been given.
5.8	GROUND AND ACCESS TO WORKS. The Contractor shall: - occupy only such ground as is necessary to carry out the work. - provide and maintain such access, if not already existent, to the various sections of the Works as he requires for the proper execution of the work.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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	c) restore, to a condition at least equivalent to their original condition, all fences and other structures that have been damaged or interfered with.
8.2.2	TIME-RELATED ITEMS No payment shall be made for time-related items, as such is to be included in the pricing for the works.

ADDITIONS

Add the following clauses:

Standard clause	Add PSA...
5.2	<i>...at the end of the existing clause(s):</i> The Contractor shall comply with the requirements of the COP and PS 5.7. This clause shall be applicable for all other parts/sections of the works. The complete closure of any road shall not be permitted without the prior written consent of the Engineer or his duly authorised representative.
	<i>... new clause:</i> 5.9 Dealing with traffic The Contractor shall comply with the requirements of the COP and PS 5.7. This clause shall be applicable for all other standard parts/sections of the works. The complete closure of any road shall not be permitted without the prior written consent of the Engineer or his duly authorised representative.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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Scope of Work

SANS 1200DA: CIVIL ENGINEERING CONSTRUCTION: EARTHWORKS (Small Works)

VARIATIONS

Delete the following standard referenced clause:

Delete standard clause	Description	Comments
5.1.8	Road Traffic Control	The Contractor shall comply with the requirements of the COP, PS 5.7 and PSA 5.9
5.2.6.2	Overhaul	Overhaul is not applicable.

Delete and replace the standard referenced clauses:

Delete standard clause	Replace with PSDA...
5.1.1.1	5.1.1.1 Barricading and lighting Delete the existing clause and replace with the following: In terms of the applicable regulation of the Machinery and Occupational Safety Act, 1983 (Act 6 of 1983) every excavation by which the safety of persons may be endangered, shall a) be adequately protected by a rubber mesh barrier / fence of height at least 1.2m and be placed as close to the excavation as practicable; b) Provide red warning lights at night. It shall be the responsibility of the Contractor to ensure that the barricades and lights remain functional at all times.
5.2.6.1	5.2.6.1 Freehaul All distances applicable are considered as free haul distances and no additional payment shall be applicable.
8.3.1 (c): (3) and (4)	8.3.1 Excavation c) Extra-over for: 3) Boulder excavation Unit: m ³
8.3.3	8.3.3 Overhaul Overhaul are not applicable hence all distances applicable are considered as free haul distances and no additional payment shall be applicable.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

ADDITIONS

Add the following clauses:

Standard clause	Add PSDA																													
	3.4 CLASSIFICATIONS FOR HAND EXCAVATION Classification of material for various types of hand excavation shall be based on the results of a dynamic cone penetrometer. The category of material shall be determined by testing the material at regular intervals and at various depths along the centre line of the trench. A minimum of 5 tests shall be done at each location and the average number of blows of the tests shall be used to determine the category of material. The interval between test locations shall be determined by the variation of material type but shall not exceed 50m. The depth of testing shall be determined by the variation of material type and can increase or decrease in hardness with increasing depth of excavation. Table PSDB 3.8 indicates the categories: TABLE PSDA: 3.4 CLASSIFICATIONS FOR HAND EXCAVATION <table><tr><th rowspan="2">Category of Material</th><th colspan="2">Consistency</th><th colspan="2">DCP Blows to Penetrate 100mm</th></tr><tr><th>Granular</th><th>Cohesive</th><th>Granular</th><th>Cohesive</th></tr><tr><td><u>Soft</u> Soft excavation shall be excavation in material that can be efficiently removed from the trench using a pick and shovel but not requiring prior breaking using mechanical equipment such as pavement breakers</td><td>Up to medium dense</td><td>Firm to stiff</td><td>0-6</td><td>1-5</td></tr><tr><td><u>Intermediate</u> Intermediate excavation shall be excavation in material that require loosening with a hand spike (gwala) before being removed from the trench</td><td>Dense</td><td>Stiff to very stiff</td><td>7-15</td><td>6-8</td></tr><tr><td><u>Hard</u> Hard excavation shall be excavation in material that requires prior breaking using mechanical equipment, such as pavement breakers with clay spades, before being removed from the trench.</td><td>Very dense</td><td></td><td>16-50</td><td>-15</td></tr><tr><td><u>Rock</u> Rock excavation shall be excavation in material other than described above which by nature of the material requires prior breaking using mechanical equipment, such as pavement breakers with moil points, before being removed from the trench</td><td>-</td><td>-</td><td>>50</td><td>>15</td></tr></table>	Category of Material	Consistency		DCP Blows to Penetrate 100mm		Granular	Cohesive	Granular	Cohesive	<u>Soft</u> Soft excavation shall be excavation in material that can be efficiently removed from the trench using a pick and shovel but not requiring prior breaking using mechanical equipment such as pavement breakers	Up to medium dense	Firm to stiff	0-6	1-5	<u>Intermediate</u> Intermediate excavation shall be excavation in material that require loosening with a hand spike (gwala) before being removed from the trench	Dense	Stiff to very stiff	7-15	6-8	<u>Hard</u> Hard excavation shall be excavation in material that requires prior breaking using mechanical equipment, such as pavement breakers with clay spades, before being removed from the trench.	Very dense		16-50	-15	<u>Rock</u> Rock excavation shall be excavation in material other than described above which by nature of the material requires prior breaking using mechanical equipment, such as pavement breakers with moil points, before being removed from the trench	-	-	>50	>15
Category of Material	Consistency		DCP Blows to Penetrate 100mm																											
	Granular	Cohesive	Granular	Cohesive																										
<u>Soft</u> Soft excavation shall be excavation in material that can be efficiently removed from the trench using a pick and shovel but not requiring prior breaking using mechanical equipment such as pavement breakers	Up to medium dense	Firm to stiff	0-6	1-5																										
<u>Intermediate</u> Intermediate excavation shall be excavation in material that require loosening with a hand spike (gwala) before being removed from the trench	Dense	Stiff to very stiff	7-15	6-8																										
<u>Hard</u> Hard excavation shall be excavation in material that requires prior breaking using mechanical equipment, such as pavement breakers with clay spades, before being removed from the trench.	Very dense		16-50	-15																										
<u>Rock</u> Rock excavation shall be excavation in material other than described above which by nature of the material requires prior breaking using mechanical equipment, such as pavement breakers with moil points, before being removed from the trench	-	-	>50	>15																										
	5.1.1.2 Safeguarding of excavations g) The Contractor shall programme his activities in such a way that long sections of trenches do not lie open for undue periods of time, as it poses a security risk. The chambers shall be constructed as soon as possible after excavation and then backfilled. Under no circumstances shall excavations be left open for more than 1 week.																													
	5.2.2 Excavation																													

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

	h) Where the chambers are to be constructed in surfaced roads the Contractor shall neatly cut four parallel grooves into and through the asphalt before excavating between the grooves. The cost of this operation, where not scheduled separately it shall be deemed to have been included in the general rates for excavation. i) The Contractor shall maintain the bottoms of completed excavation in good condition. Excavation bottoms that are softened or eroded through stormwater, seepage water or otherwise, must be rectified by removal of the softened material and its replacement with approved material firmly compacted in layers not exceeding 150mm in compacted thickness or with 10MPa concrete where directed, at the Contractor's cost. The placing of hardcore or concrete screed shall be entirely at the Contractor's cost in any section of the work where softening of floors has been due to the method of excavation or inadequate provision for drainage. Bottoms of excavation in bad or waterlogged ground shall be excavated and replaced with hardcore filling, a hardcore base and/or a 20 MPa concrete screed as directed. i) Hardcore filling shall consist of 75 – 150 mm stone well rammed and compacted. ii) Hardcore base shall consist of 50 – 75 mm stone laid and compacted across the full width of the trench. Preparation of excavation bottoms shall be included in the schedule rates for excavation. Approved granular material imported to the site, or hardcore base, hardcore filling or concrete screed, used on trench floors shall be paid for separately, where such is not as a result of the Contractor's negligence.
	5.2.7 Backfilling In addition to the existing clauses, backfilling work shall be carried out in accordance with the COP.
	5.2.8 Disposal of unsuitable and surplus excavation material Excavated material that is unsuitable or has become surplus because of bulking, displacement by the chamber and/or pipework and importation shall be disposed of at approved tipping sites to be located by the Contractor. All unsuitable material shall be spoiled within 48 hours of excavation failing which the Engineer or his duly authorised representative shall be entitled to suspend work under the Contract. The prior approval of the Engineer must be obtained before surplus material may be deposited, spread and levelled at agreed sites within the area of the works.
	5.2.9 Construction in Headings Generally in soft material the buttresses and portions of ground left for the purpose of supporting the sides of the excavations or headings providing access to private properties, shall be broken down as the refilling and compaction proceeds.
	5.2.10 Compaction of areas subject to traffic loads In areas subject to traffic loading and in constructed footways compaction shall be done in accordance with the requirements specified in this Project Specification and the COP requirements.
	5.2.11 Kerbing Where the Contractor has, in the process of excavating, removed kerbing, of all types of shape and all material, he shall re-instate such kerbing to its original condition with regard to alignment (vertically and horizontally). This may include cleaning, but not patching. All kerbing damaged during the removal process shall be replaced at the cost of the Contractor.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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 AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Scope of Work

SANS 1200DB: CIVIL ENGINEERING CONSTRUCTION: EARTHWORKS (PIPE TRENCHES)

VARIATIONS

Delete the following standard referenced clause:

Delete standard clause	Description	Comments
5.1.3	Accommodation of Traffic and Access to Properties	The Contractor shall comply with the requirements of the COP, PS 5.7 and PSA 5.9

Delete and replace the standard referenced clauses:

Delete standard clause	Replace with PSDB...

ADDITIONS

Add the following clauses:

Standard clause	Add PSDB.....
	PSDB8.3.1.1 Saw cut, remove and dispose of existing asphalt The rate shall cover saw, cut, removal, handling, transport and proper off-site site disposal of all types of existing asphalt and stone crush base up to a maximum thickness of 200 mm. Unit: m² PSDB8.3.1.2 Saw cut, remove and dispose of concrete (un-reinforced) The rate shall cover saw, cut, removal, handling, transport and proper off-site disposal of existing un-reinforced concrete of maximum thickness 300 mm. Unit: m² PSDB8.3.1.3 Saw cut, remove and dispose of concrete (reinforced) The rate shall cover saw, cut, removal, handling, transport and proper off-site disposal of existing reinforced concrete of maximum thickness 300 mm. Unit: m² PSDB8.3.1.4 Remove and temporarily store of paving block units The rate shall cover removal, handling, transport and proper storage of all types of existing paving block units for later re-instatement. Unit: m² PSDB8.3.1.5 Remove and temporarily store of grass sods The rate shall cover removal, handling, transport and proper storage and maintenance of existing grass in sods for later re-instatement. Unit: m² PSDB8.3.1.6 Remove and temporarily store all types of kerbing The rate shall cover removal, handling, transport and proper storage of all types of existing kerbing for later re-instatement. Unit: m PSDB 8.3.6 Finishing General The width of any trench through an area grassed or paved with bricks or pre-cast concrete units shall be the minimum practicable width, which in the opinion of the Engineer is sufficient. In the case of blocks this minimum area will be the minimum area over which units (whether bricks or pre-cast units) can be removed without requiring cutting. The Contractor's rate for supply and lay of asphalt must provide for all plant, labour and material costs associated with the work, including inter alia:

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

Scope of Work

	The cost of the asphalt and foamed concrete, the collection, transport to site and placing in accordance with the SANS 1200MH specifications. All wastage and overbreak re-instatement costs, including the purchase of the asphalt and foamed concrete. <i>Add the following new clauses:</i> PSDB 8.3.6.1a Re-instatement of asphalt surfaces The rate shall cover supplying, loading, transporting and re-instatement all layers complete to previous levels (or levels to suite proper stormwater drainage), and surfacing Unit: m² PSDB 8.3.6.1b Re-instatement of concrete, complete The rate shall cover loading, transporting and re-instatement complete to previous levels (or levels to suite proper stormwater drainage), and surface finish of 15 MPa (minimum) un-reinforced concrete strength. The reinstated concrete shall also not exceed 300 mm but shall not be less than 50 mm.) Unit: m² PSDB 8.3.6.1c Re-instatement of paving blocks, complete The rate shall cover loading, transporting and re-instatement complete with bricks/pre-cast unit-receival area preparation, compaction (minimum 90%Mod AASHTO density), levelling, 20 mm river sand bedding, laying bricks/units, plaster sand jointing, and compaction. Unit: m² PSDB 8.3.6.1d Re-instatement of grass sods, complete The rate shall cover loading, transporting, and re-instatement complete with grass area including preparation, compaction, levelling, laying sods, topsoiling, and watering (water not from property supply). Unit: m² PSDB 8.3.6.1e Re-instatement of all types of kerbing, completing The rate shall cover loading, transporting and re-instatement complete with sand-cement bedding, laying units, motar jointing, haunching, and backfilling, compaction (minimum 90 % Mod AASHTO density) and levelling behind kerbs. Unit: m PSDB 8.3.6.1f Re-instatement Top soil The rate shall cover loading, transporting, and re-instatement of all topsoil area, including preparation, compaction and levelling Unit: m²

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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Scope of Work

SANS 1200C: CIVIL ENGINEERING CONSTRUCTION

VARIATIONS

Delete the following standard referenced clause: None

Delete standard clause	Description	Comments

Delete and replace the standard referenced clauses:

Delete standard clause	Replace with PSC...
5.3 (d)	CLEARING (d) the removal of all rocks and boulders of any size that are lying on the surface to be cleared or exposed during clearing operations.

ADDITIONS

Add the following clauses: None

Standard clause	Add PSC...
	8.2.5 Take down existing walls and fences The rate shall cover the cost of taking down existing fences (including any gates), on-loading, transporting, and off-loading, storing and maintaining or spoiling for the following: Unit: m²
	8.2.11 Removal of man-made surfaces The rate shall cover all plant, labour, material, saw cutting (asphalt and concrete), breaking up, lifting, loading, transportation, off-loading surfacing and storing (where applicable). Unit: m² a) Roadways, Asphalt and other layers i) Asphalt (≤ 50mm thick) and including base, sub-base and subgrades layers up to 800mm deep. ii) Asphalt ($> 50 \leq 100$mm thick) and including base, sub-base and subgrades layers up to 800mm deep. b) Footways and driveways i) Asphalt ≤ 50mm thickness ii) Asphalt $> 50 \leq 100$mm thickness iii) Interlocking concrete segmental paving blocks (all colours) iv) Concrete slabs (450 X 450mm) v) Brick paving vi) Unreinforced concrete ≤ 75mm thick vii) Reinforced concrete ≤ 75mm thick viii) Grassing

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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Scope of Work

Standard clause	Add PSC...
	ix) Kerbing (all types of kerbing) (Unit: m)
8.2.12.2	Backfilling and reinstatement footways Unit:m² Using removed materials: a) Interlocking concrete segmental paving blocks (all colours) b) Concrete slabs (450 X 450mm) c) Brick paving d) Grassing e) Kerbing

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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Scope of Work

SANS 1200L: CIVIL ENGINEERING CONSTRUCTION: MEDIUM-PRESSURE PIPELINES

VARIATIONS

Delete the following standard referenced clause:

Delete standard clause	Description	Comments

Delete and replace the standard referenced clauses:

Delete standard clause	Replace with PSL...																				
3.2	AC PIPES AND SPECIALS. AC pipes or specials shall not be used on this Contract, however erf connection saddles on existing AC secondary mains or specials for altering FC pipes shall be supplied by the Employer. Where: a) in the opinion Engineer, repair or alteration to the AC is required as a negligence of the Contractor, the cost of the materials and Works implementation shall be for the expense of the Contractor. b) so deemed the Engineer may instruct the replacement of a section of the existing AC pipes, which shall be addressed as a variation to the Works.																				
3.4.3	Pipes of a nominal bore over 150mm Steel pipes of nominal bore over 150mm shall comply with the applicable requirements of SANS 719, Grade B. The wall thickness of pipes shall: <table> <tr> <th>Range (mm)</th><th>Nominal bore wall thickness (mm)</th></tr> <tr> <td>150</td><td>4</td></tr> <tr> <td>200</td><td>4.5</td></tr> <tr> <td>250</td><td>5</td></tr> <tr> <td>300</td><td>6</td></tr> <tr> <td>400</td><td>6</td></tr> <tr> <td>500</td><td>8</td></tr> <tr> <td>600</td><td>10</td></tr> <tr> <td>> 600 ≤ 900</td><td>10.0</td></tr> <tr> <td>≤ 1,000</td><td>12.0</td></tr> </table>	Range (mm)	Nominal bore wall thickness (mm)	150	4	200	4.5	250	5	300	6	400	6	500	8	600	10	> 600 ≤ 900	10.0	≤ 1,000	12.0
Range (mm)	Nominal bore wall thickness (mm)																				
150	4																				
200	4.5																				
250	5																				
300	6																				
400	6																				
500	8																				
600	10																				
> 600 ≤ 900	10.0																				
≤ 1,000	12.0																				
3.7.2	Polyethelene Pipes Polyethylene pipes and fittings shall comply with the relevant requirements of SANS 4437, SANS 10112 and SANS 14236, and shall be Class 16 HDPE type IV plain ended pipes, unless otherwise indicated by the Engineer.																				
3.8.3	Flanges and Accessories Each flanged pipe and fitting shall be supplied complete with one set of bolts, nuts and washers and one insertion piece of the appropriate diameter and made of a material suitable for the maximum test pressure. The drilling of steel and CI flanges shall conform to the requirements of SANS 1123 (table 1600/3), as applicable, appropriate to the class of pipe specified, except that a) in the case of flanges for hydrant and air valve matching tees, the drillings shall conform to the drilling of the valve supplied ; and b) in the case of CI flanges, where M27 and M33 bolts are specified in BS 4504 : Part 1, M24 and M30 bolts respectively shall be used as specified in SANS 1123.																				
3.9.4	Flexible couplings																				

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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Scope of Work

Delete standard clause	Replace with PSL...
	All cast iron, mild steel and galvanised iron fittings, valves, hydrants and all detachable couplings shall be wire brushed to remove all foreign particles including: rust, dust, sand and mud. A thin film of petro-primer (or similar approved) shall be applied to the entire surface. Petro-mastic (or similar approved) shall be packed around the coupling or fitting to provide an even contour ensuring that no air is entrapped. The mastic shall be prepared to completely cover all nuts, washers and bolts. A sufficiently wide wrap of petro-tape (or similar approved) shall be applied over the entire fitting overlapping by approximately 25%. The wrap shall then be smoothed by hand following the contour of the fitting, eliminating all air that may be entrapped under the tape. An outer layer of 150 micron layflat sheeting of sufficient width shall then be applied over the entire fitting with a 50% overlap. The end of the sheeting shall be secured to the existing pipe by means of adhesive tape.
3.11.3	Concrete Unless otherwise required in terms of the project specifications, concrete shall comply with SANS 1200G or SANS 1200GA.

Volume	1	2				
Part	T1	T2	C1	C2	C3	C4

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Scope of Work

ADDITIONS

Add the following clauses:

Standard clause	Add PSL...
3.8	3.8.8 Jointing of shouldered-end pipes and fittings Joints in uPVC and medium steel shouldered-end pipes and fittings shall conform to SANS 815-1 and SANS 815-2, where fittings shall be cast or steel vitaulic clamps (or similar approved).
3.8	3.8.9 Jointing of HDPE pipes Jointing of HDPE pipes shall be by means: a) heat fusion welded, butt-welded for pipes greater than and equal to 75mm diameter, in accordance with SANS specification. The internal butt-welds shall not protrude by more than 4mm.
3.8	3.8.10 Welding Welding shall be Grade B spiral steel continuously welded pipe. The qualification of welders shall be in accordance with the relevant clauses of the above standards, and specifically SANS 044 Part III and shall be Grade 1 welders. Grade 2 welder shall be permitted only with the Engineer or his duly authorised representative's approval. The Contractor shall provide evidence, acceptable to the Engineer or his duly authorised representative, that welding procedures and welders have been tested in accordance with the requirements of AWS D1.1.



VOLUME 1

PART 4: SITE INFORMATION

SITE INFORMATION

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C4 SITE INFORMATION

C4.1 GENERAL

This section describes the site at the time of tender to enable the tenderer to price his tender and to decide upon his method of working and programming and risks.

C4.2 SITE LOCATION

The site is located in Midvaal Local Municipality jurisdiction

C4.3 ACCESS TO SITE AND RESTRICTIONS

Although the works are located on sites within the Employer's property and/or reserve, the Contractor shall have to obtain permission from various authorities in order to completed excavations to execute the works required as part of this Contract. Any other permission as may become necessary shall be the responsibility of the Contractor to obtain.

Having been granted access to works areas by the Employer, other service authorities and private owners, the Contractor shall adhere to any agreed conditions of access and ensure the works area is left in a condition similar to when it was first accessed.

C4.4 EXISTING SERVICES, SERVITUDES AND WAYLEAVES

For detailed specification the Contractor shall refer to clauses PS1.5 (Temporary Works), PS4.5 (Existing services), and PS4.8 (Permits and wayleaves).

C4.5 SECURITY

The Contractor shall be responsible for the security of his personnel, materials, equipment and construction plant on and around the site of the Works and for the security of his camp (if applicable). The Employer in this regard will consider no claims.

Refer to clause PS6.1 (Security)

C4.6 NATURE OF GROUND

The Contractor must ascertain himself with the site conditions of the pipeline route. Site inspection is compulsory; however, by virtue of submitting the tender, it will be assumed that the contractor has familiarized himself with the conditions on site. The Contractor must ascertain himself with the following conditions on site before tendering:

1. Condition of the existing services.
2. Positioning (Alignment and depth as well as type of service) of existing services.
3. Existing underground services in the area that may include: Telkom/Fibre, Electrical (both municipal and Eskom), Potable water reticulation mains, Effluent drainage mains as well as stormwater drainage systems.
4. Existing surface services in the area that may include: Telkom, Electrical (both municipal and Eskom), Potable water reticulation mains, Effluent drainage manholes as well as stormwater drainage roadside furniture.
5. Work space constraints.

SITE INFORMATION

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The project site is fairly flat with an estimated gradient in the order of 1:160 (0.6%) draining with the exception of a stream (name) towards the Duncanville area.

Site has been classified as a D4 zone for Dolomite thereby indicating a high risk of sinkhole and doline formation with respect to water ingress. It is mainly made up of soft to intermediate material up 1.5m and hard material below 1.5m

C4.7 HYDROLOGICAL REPORT AND FLOODLINES

There are no supporting documents available with regard hydrological and floodline aspects.



VOLUME 1

ANNEXURES

SATISFACTORY LETTERS

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SATISFACTORY LETTER -ANNEXURE A



TO: MIDVAAL LOCAL MUNICIPALITY

I, the undersigned being duly authorized to do so, hereby furnish a reference to Midvaal Local Municipality relative to bid **8/2/2/463 – BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029**

Name of bidder:

Description of service provided:

Project value:

Duration / time when the above was provided:

(dd/mm/yyyy – dd/mm/yyyy)

Was their performance satisfactory?

Yes / No

If No, please furnish details:

Was the product offered complying with the specifications?

Yes / No

If No, please furnish details:

Will you recommend this supplier to anyone without reservations?

Yes / No

Rate this supplier out of a possible score of 05, with 05 being excellent and 1 being unacceptable:

Name of authorized person: Signature:

Telephone: E-mail:

Date:

Completed on behalf of (Name of Institution)

.....

**OFFICIAL INSTITUTION
STAMP**

***NB:** This document must be completed in full by the referee and must be included in the bid submission. Failure to adhere to this requirement will result in the bidder's submission being disregarded, and the bidder will have no claim against the municipality*

SATISFACTORY LETTERS

SATISFACTORY LETTER -ANNEXURE B



TO: MIDVAAL LOCAL MUNICIPALITY

I, the undersigned being duly authorized to do so, hereby furnish a reference to Midvaal Local Municipality relative to bid **8/2/2/463 – BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029**

Name of bidder:

Description of service provided:

Project value:

Duration / time when the above was provided:

(dd/mm/yyyy – dd/mm/yyyy)

Was their performance satisfactory?

Yes / No

If No, please furnish details:

Was the product offered complying with the specifications?

Yes / No

If No, please furnish details:

Will you recommend this supplier to anyone without reservations?

Yes / No

Rate this supplier out of a possible score of 05, with 05 being excellent and 1 being unacceptable:

Name of authorized person: Signature:

Telephone: E-mail:

Date:

Completed on behalf of (Name of Institution)

.....

***NB:** This document must be completed in full by the referee and must be included in the bid submission. Failure to adhere to this requirement will result in the bidder's submission being disregarded, and the bidder will have no claim against the municipality*

OFFICIAL INSTITUTION
STAMP

SATISFACTORY LETTERS

SATISFACTORY LETTER -ANNEXURE C



TO: MIDVAAL LOCAL MUNICIPALITY

I, the undersigned being duly authorized to do so, hereby furnish a reference to Midvaal Local Municipality relative to bid 8/2/2/463 – BID TO APPOINT A SERVICE PROVIDER FOR THE REPLACEMENT OF AGED WATER RETICULATION PIPELINES AND ASSOCIATED INFRASTRUCTURE FOR MIDVAAL LOCAL MUNICIPALITY ON AN AS AND WHEN REQUIRED BASIS FROM 1 JULY 2026 UNTIL 30 JUNE 2029

Name of bidder:

Description of service provided:

Project value:

Duration / time when the above was provided:

(dd/mm/yyyy – dd/mm/yyyy)

Was their performance satisfactory?

Yes / No

If No, please furnish details:

Was the product offered complying with the specifications?

Yes / No

If No, please furnish details:

Will you recommend this supplier to anyone without reservations?

Yes / No

Rate this supplier out of a possible score of 05, with 05 being excellent and 1 being unacceptable:

Name of authorized person: Signature:

Telephone: E-mail:

Date:

Completed on behalf of (Name of Institution)

.....

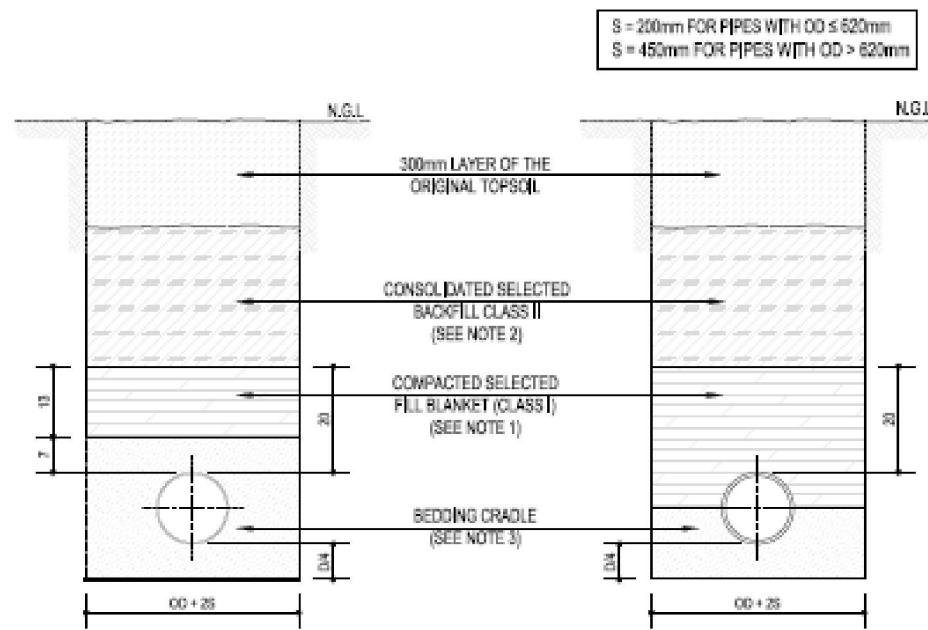
NB: This document must be completed in full by the referee and must be included in the bid submission. Failure to adhere to this requirement will result in the bidder's submission being disregarded, and the bidder will have no claim against the municipality

OFFICIAL INSTITUTION
STAMP

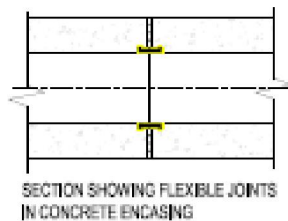
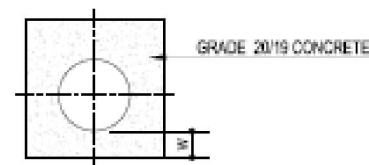
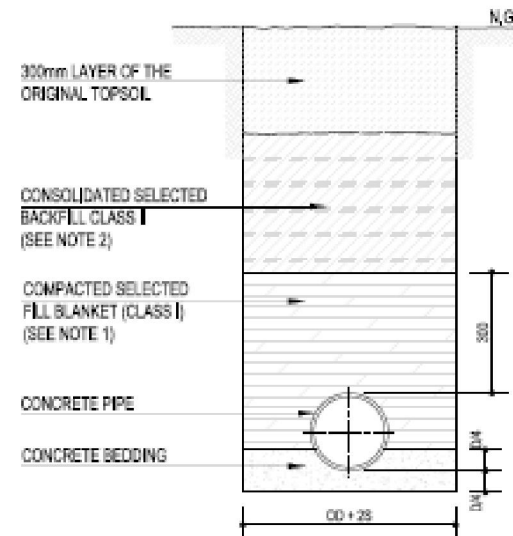


VOLUME 1

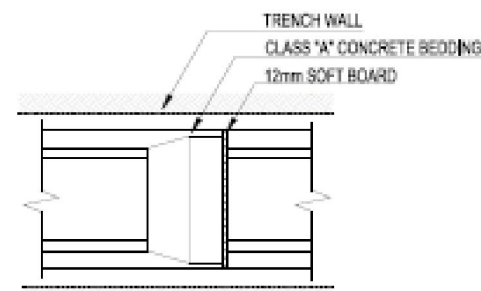
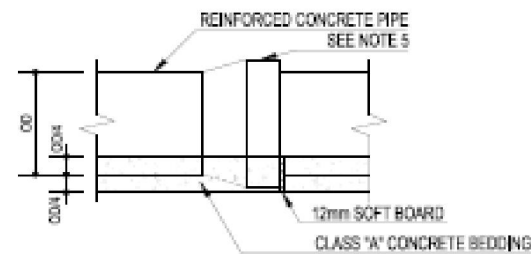
DRAWINGS



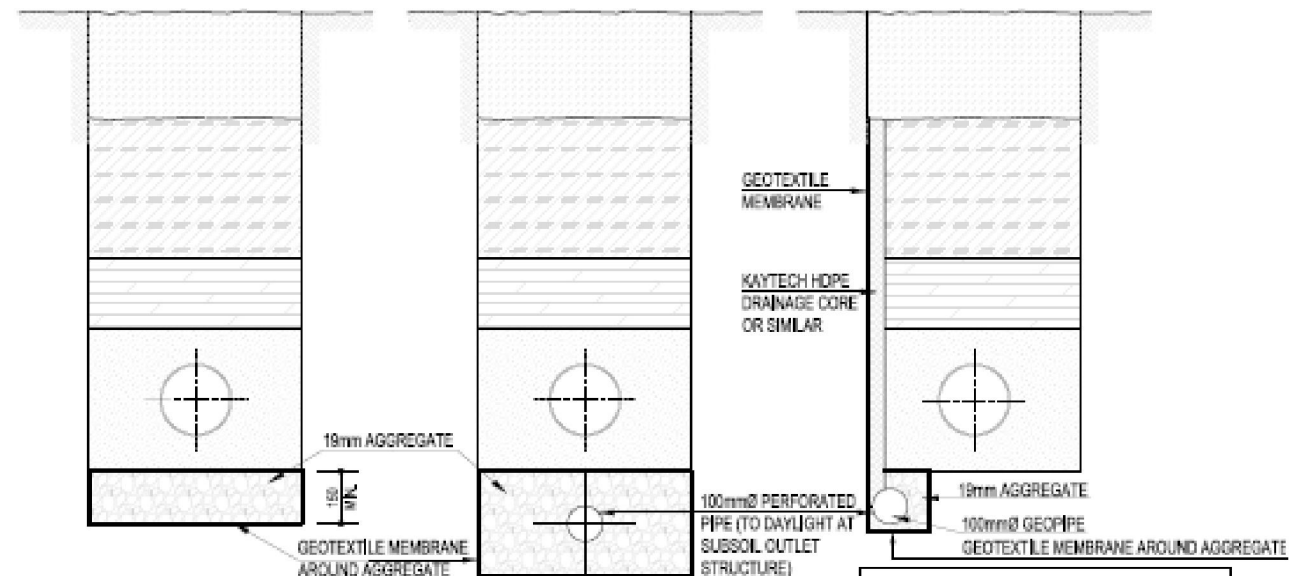
CLASS B BEDDING
FOR RIGID PIPELINE
SCALE 1:15



PIPE ENCASING DETAIL
SCALE 1:15



CLASS "A" BEDDING DETAIL



NOTES:

- 1) SELECTED BACKFILL CLASS I : IMPLIES APPROVED SELECTED MATERIAL FROM TRENCH EXCAVATION, FREE FROM STONES AND WITH AN OPTIMUM MOISTURE CONTENT.
- 2) SELECTED BACKFILL CLASS II : IMPLIES SELECTED BACKFILL FROM TRENCH EXCAVATION, WHICH SHALL NOT CONTAIN ANY STONES LARGER THAN 150mm.
- 3) CLASS B BEDDING CRADLE SHALL CONSIST OF AN APPROVED SELECTED GRAVEL MATERIAL WITH A PI NOT EXCEEDING 6, FREE FROM STONES EXCEEDING 20mm, ORGANIC MATTER AND LUMPS OF CLAY.
- 4) CLASS "A" BEDDING / ENCASING CONCRETE BETWEEN JOINTS SHALL BE CARRIED OUT IN ONE CONTINUOUS OPERATION USING CLASS 20/19 CONCRETE.
- 5) FLEXIBLE JOINTS MUST BE PROVIDED, AT EACH PIPE JOINT IN A CLASS "A" CONCRETE BEDDING / ENCASING, WITH A 12mm THICK SOFTBOARD PLACED VERTICALLY FOR THE ENTIRE CONCRETE AREA. PIPE JOINTS MUST BE SEALED WITH WET CLAY TO PREVENT SLUSH FROM PENETRATING THE JOINT.
- 6) EXCEPT FOR THE 300mm BACKFILL ON THE TOP OF THE PIPE, THE BALANCE OF THE TRENCH MAY BE BACKFILLED WHEN THE CLASS "A" BEDDING / ENCASING HAS OBTAINED THE COMPRESSIVE STRENGTH OF 15MPa.

NO	DATE	INSTALLATION DRAWINGS	REV	TH
		DETAILS		
		REVISIONS		



PROJECT CONSULTANT

CONSULTANT SIGNATURE

DRAWN CHECKED DESIGNED

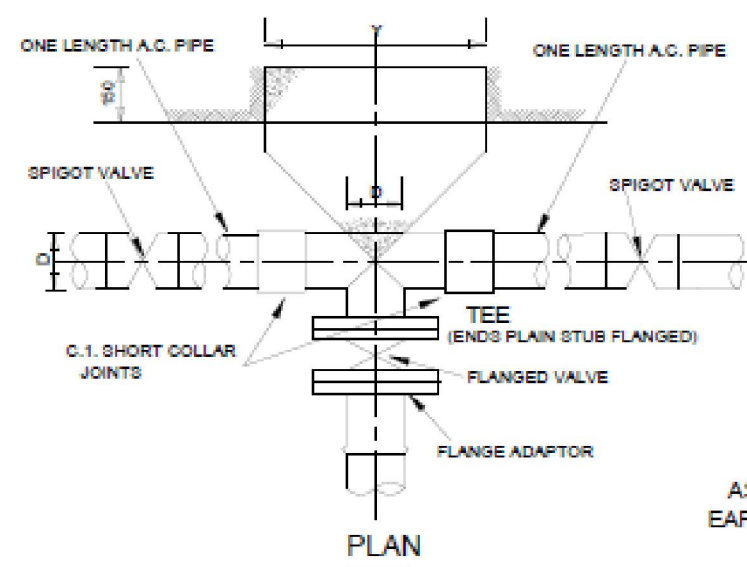
PROJECT
Midvaal Local Municipality
Aged Pipeline Replacement
Project

DESCRIPTION
Bedding Details

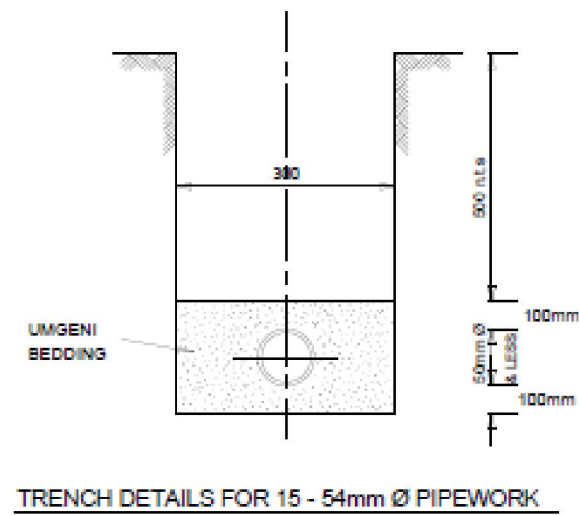
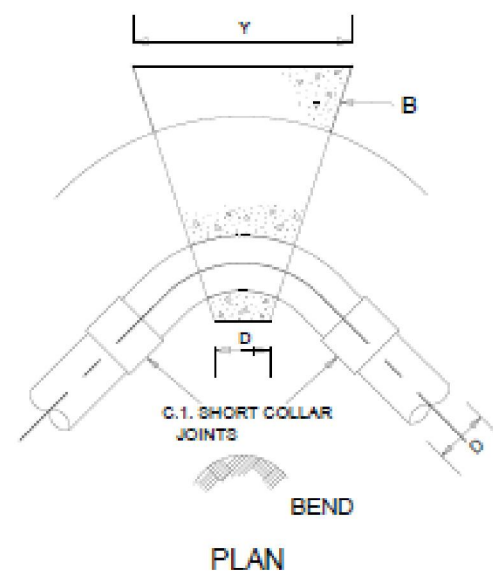
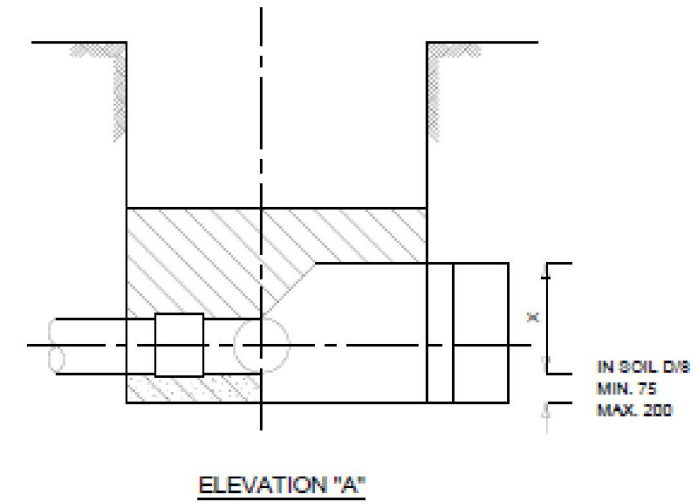
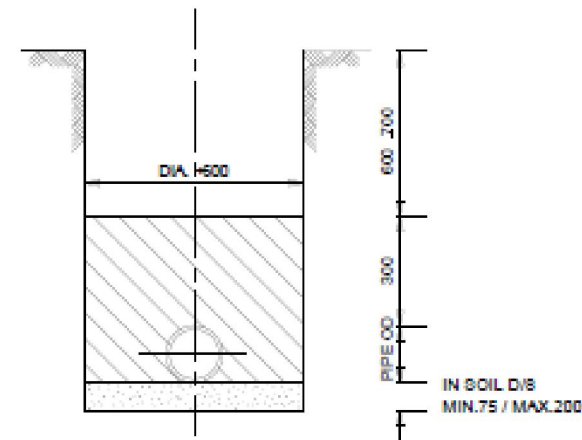
SCALE	SHEET SIZE	DATE
1 : 50	A2	
PROJECT NO	DRG. NO	REV
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NOTES

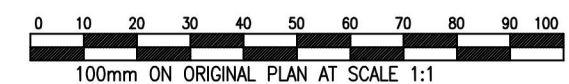
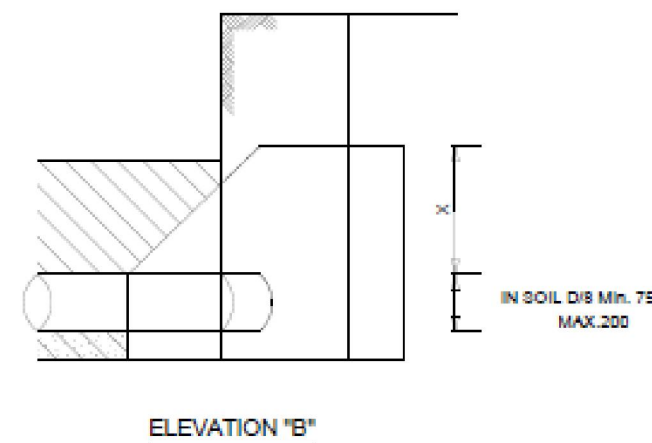
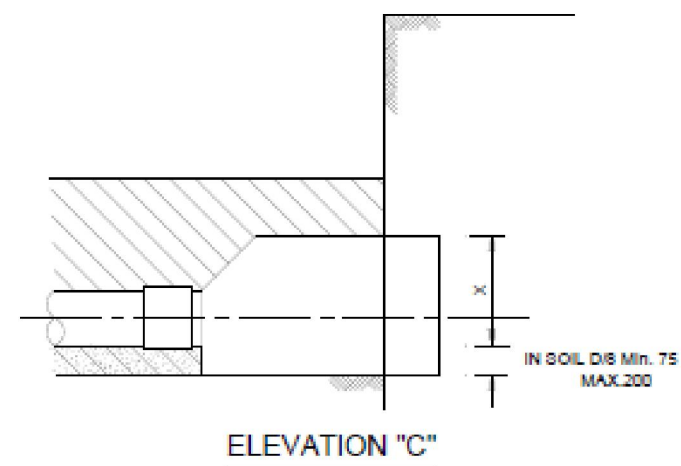
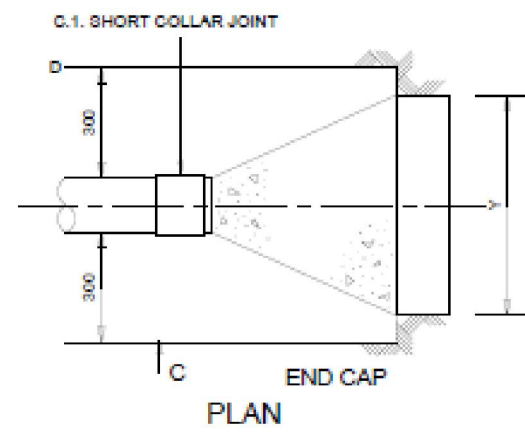


AS PER PART "DB" DEPT. SPECIFICATION FOR
EARTHWORKS FOR PIPE TRENCHES. (CLASS "C")

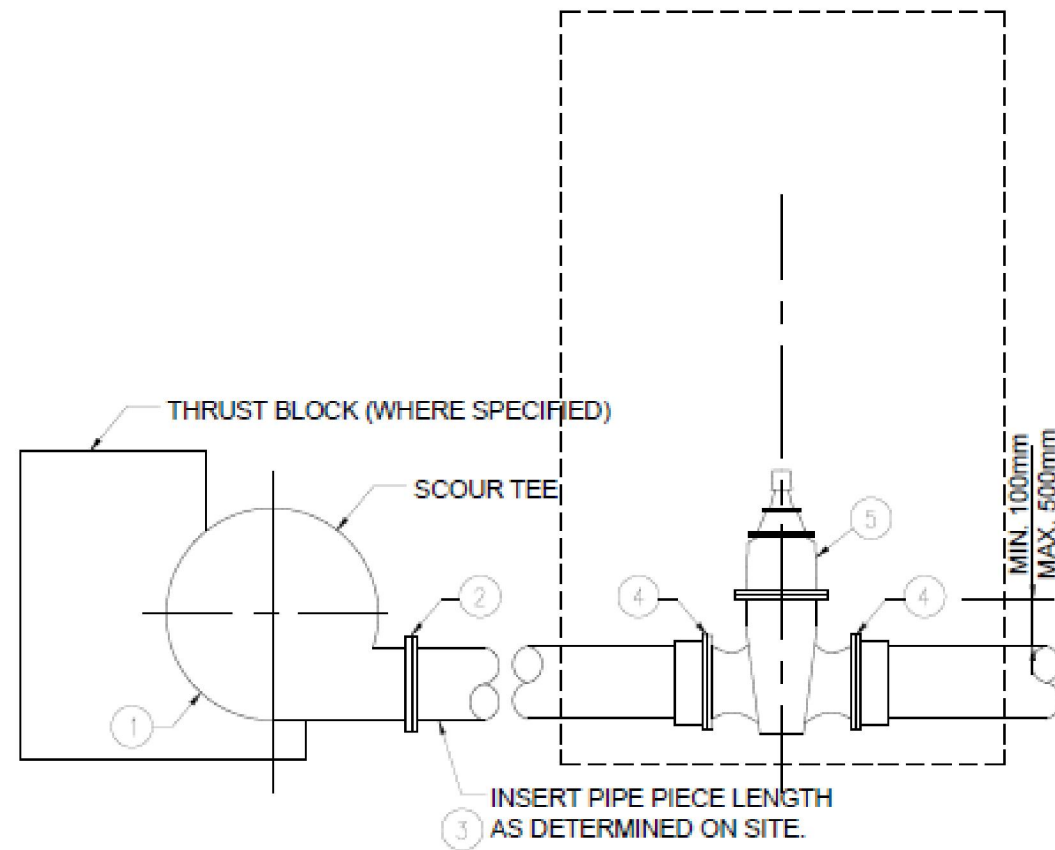


THRUST BLOCK SIZES (in mm)
in normal earth for heads of 120 m

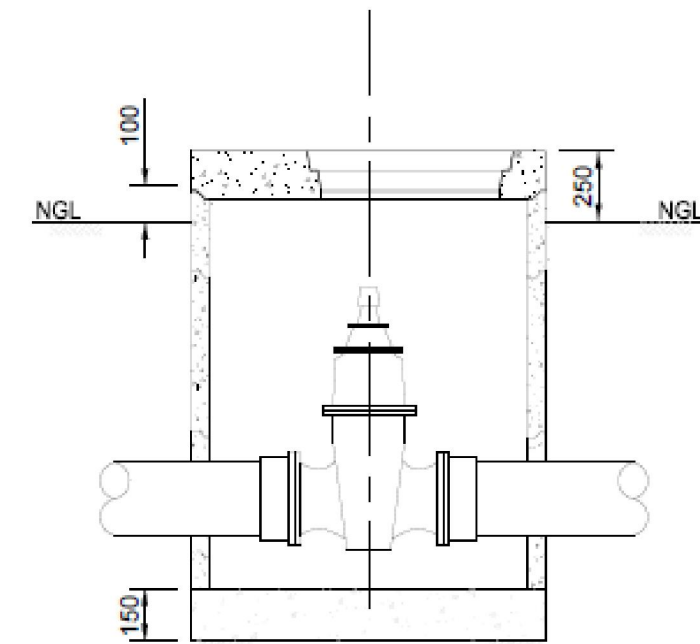
PIPE SIZE	CAP	TEE (BRANCH)	90° 1/4 BEND	45° 1/8 BEND	22.5° 1/16 BEND	11.25° 1/32 BEND
75mm	200 x 200	200 x 200	250 x 300	200 x 250	200 x 200	200 x 200
100mm	200 x 400	200 x 400	300 x 500	250 x 300	200 x 200	200 x 200
150mm	300 x 600	300 x 600	500 x 600	350 x 500	300 x 300	200 x 250
200mm	400 x 800	400 x 800	600 x 900	400 x 800	300 x 500	250 x 300
250mm	600 x 800	600 x 800	900 x 900	600 x 800	400 x 600	300 x 300
300mm	700 x 1000	700 x 1000	1000 x 1300	700 x 1000	600 x 600	300 x 500
	X Y	X Y	X Y	X Y	X Y	X Y



DO	INSTALLATION DRAWINGS	BT	TH
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	REVISIONS		
CLIENT			
PROJECT CONSULTANT			
CONSULTANT SIGNATURE			
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PROJECT			
Midvaal Local Municipality Aged Pipeline Replacement Project			
DESCRIPTION			
Thrust Block Details			
SCALE	SHEET SIZE	DATE	
1 : 50	A2		
PROJECT NO	DRG. NO	REV	
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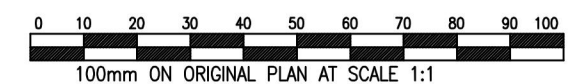
SECTION A-A
SCALE 1 : 10
SCOUR VALVE



SCOUR VALVE CHAMBER

SCHEDULE OF FITTINGS

1. FLANGED SCOUR TEE
2. 2FLANGED ADAPTOR 100Ø TO SUIT STEEL TO uPVC
3. uPVC INSERT PIPE TO SUIT SITE LENGTH 100Ø
4. uPVC PLAN SOCKET 100Ø
5. 100Ø SOCKETED GATE WITH RISING SPINDLE



NOTES

NO	DATE	INSTALLATION DRAWINGS	BT	TH
		DETAILS		
		REVISIONS		



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PROJECT
Midvaal Local Municipality
Aged Pipeline Replacement
Project

DESCRIPTION

Scour Valve

SCALE	SHEET SIZE	DATE
1 : 50	A2	
PROJECT NO	DRG. NO	REV
		00

NOTES

NO	DATE	INSTALLATION DRAWINGS	BY	TH
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		REVISIONS		



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CONSULTANT SIGNATURE

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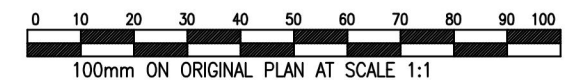
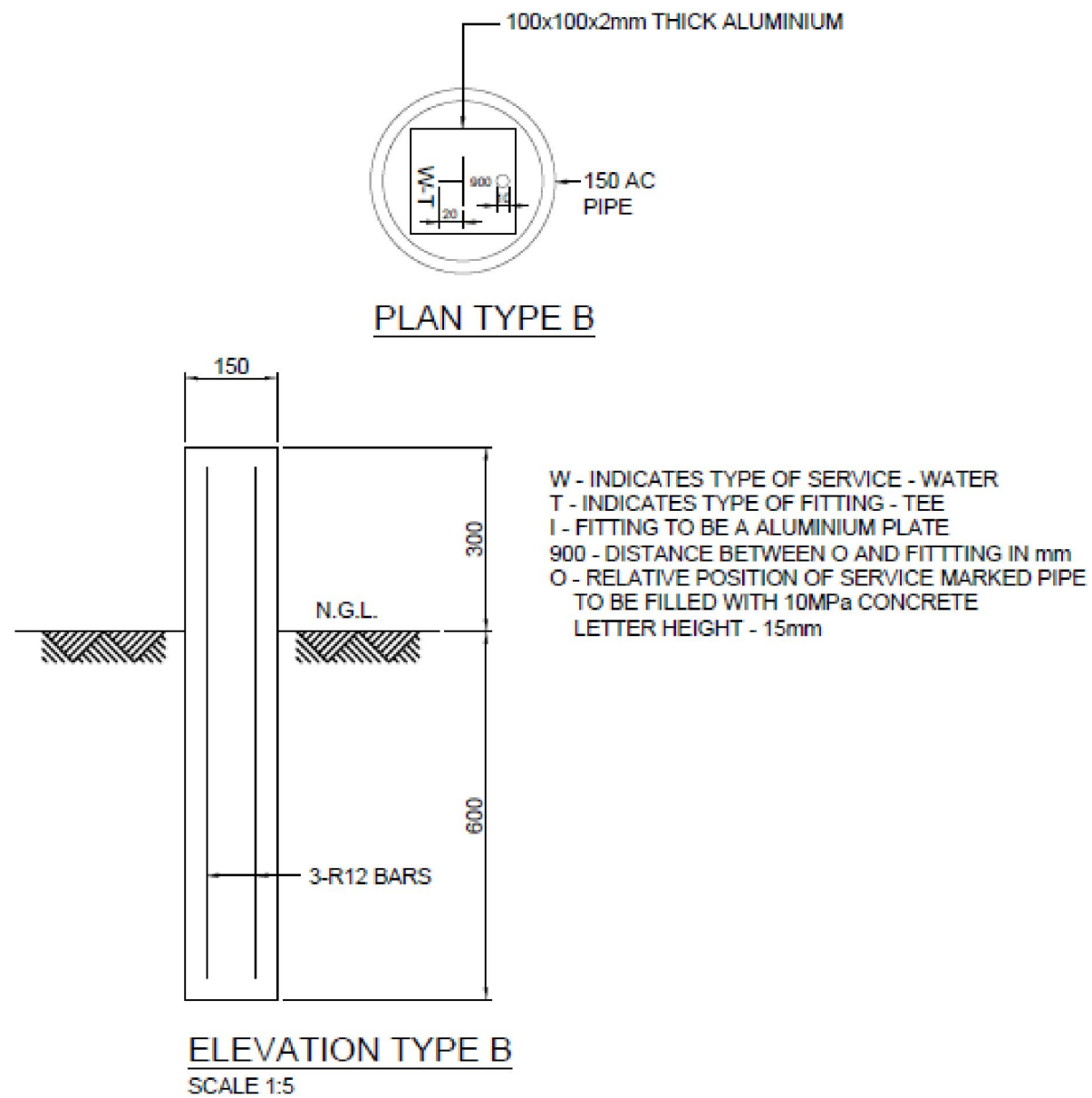
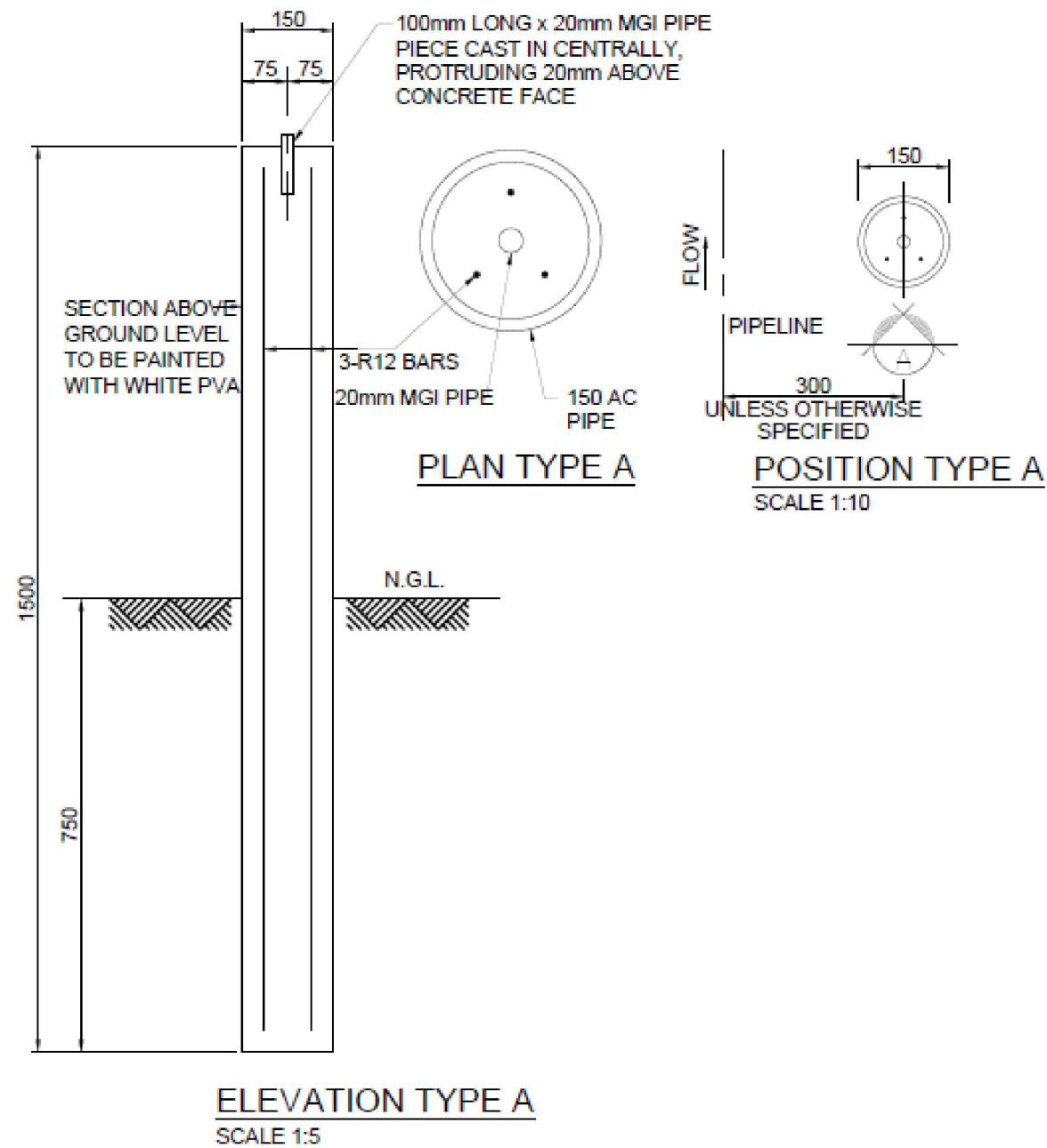
PROJECT

Midvaal Local Municipality
Aged Pipeline Replacement
Project

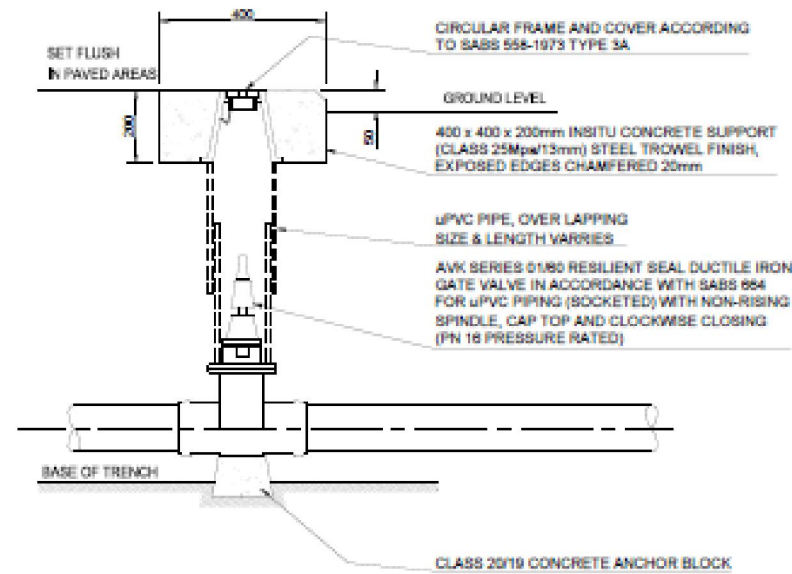
DESCRIPTION

IPipeline Marker

SCALE	SHEET SIZE	DATE
1 : 50	A2	
PROJECT NO	DRG. NO	REV
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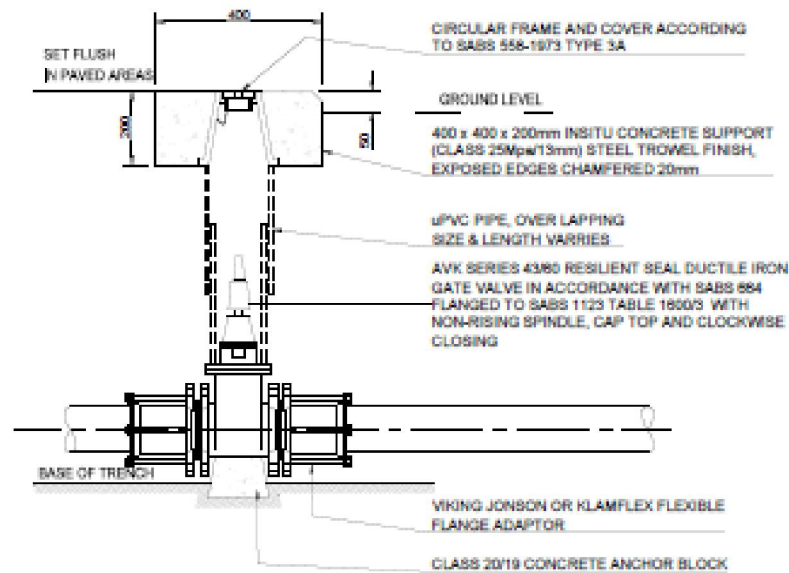
TYPE A SOCKETED



WATER LINE ISOLATING VALVE (50-160mmØ)

SCALE 1 : 10

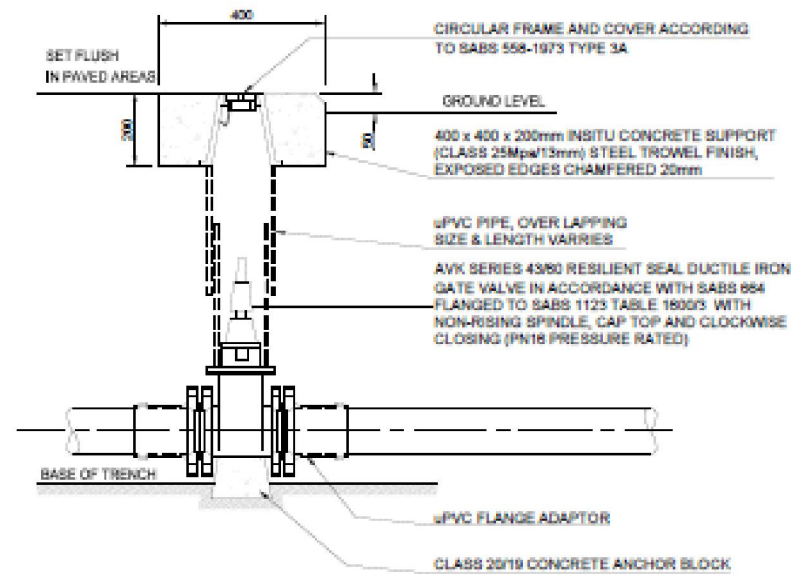
TYPE A vjJOINTED



WATER LINE ISOLATING VALVE (65-100mmØ)

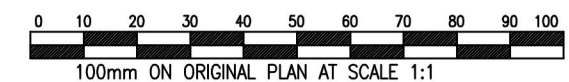
SCALE 1 : 10

- TYPE A FLANGED



WATER LINE ISOLATING VALVE (50-160mmØ)

SCALE 1 : 10



NOTES

NO	DATE	INSTALLATION DRAWINGS	BY	TH
		DETAILS		
		REVISIONS		



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PROJECT
Midvaal Local Municipality
Aged Pipeline Replacement
Project

DESCRIPTION
Isolating Valve Chamber

SCALE 1 : 50	SHEET SIZE A2	DATE
PROJECT NO	DRG. NO	REV
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LOCAL MUNICIPALITY

PROJECT CONSULTANT

CONSULTANT SIGNATURE		
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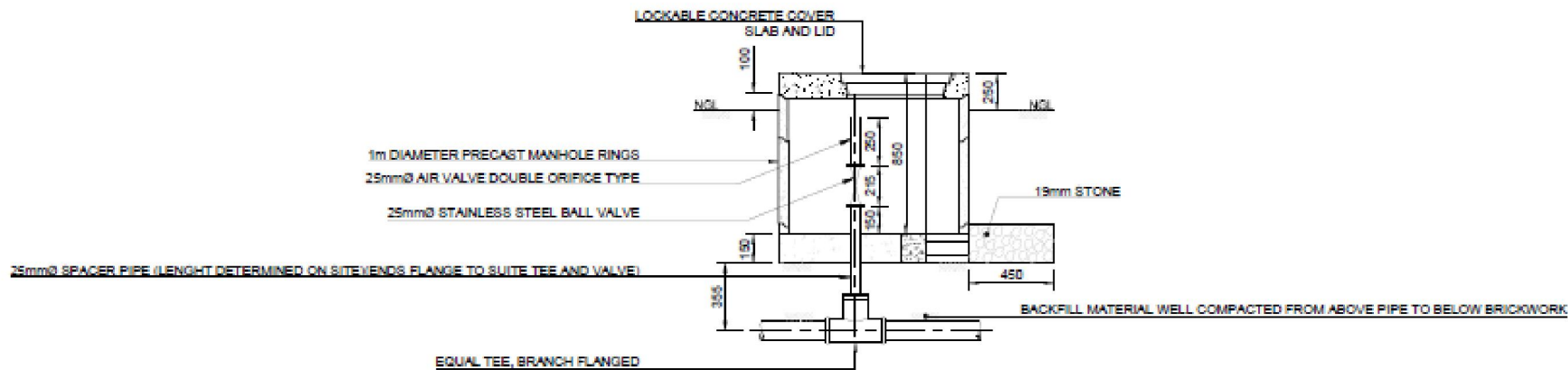
PROJECT

Midvaal Local Municipality
Aged Pipeline Replacement
Project

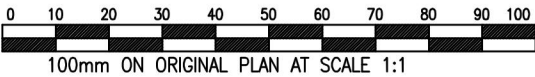
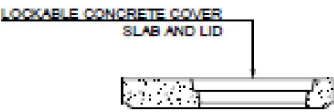
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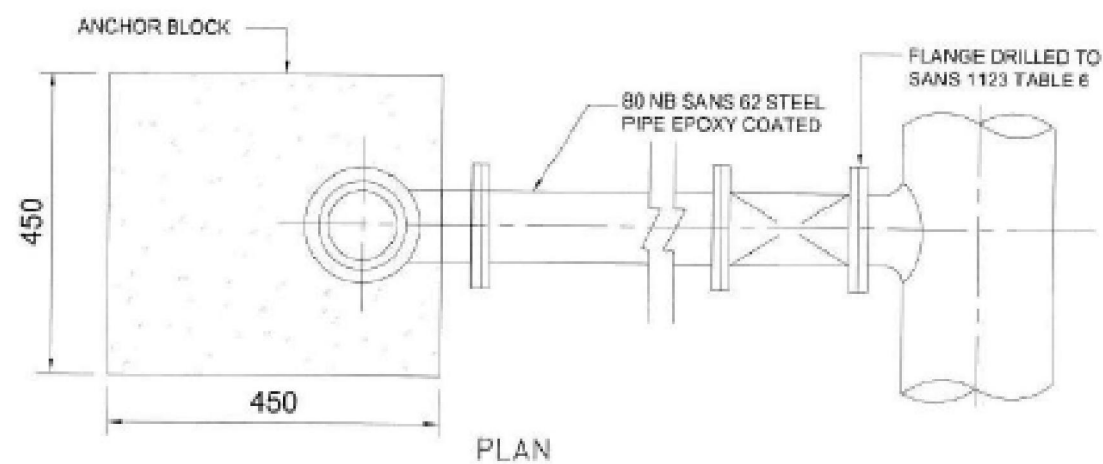
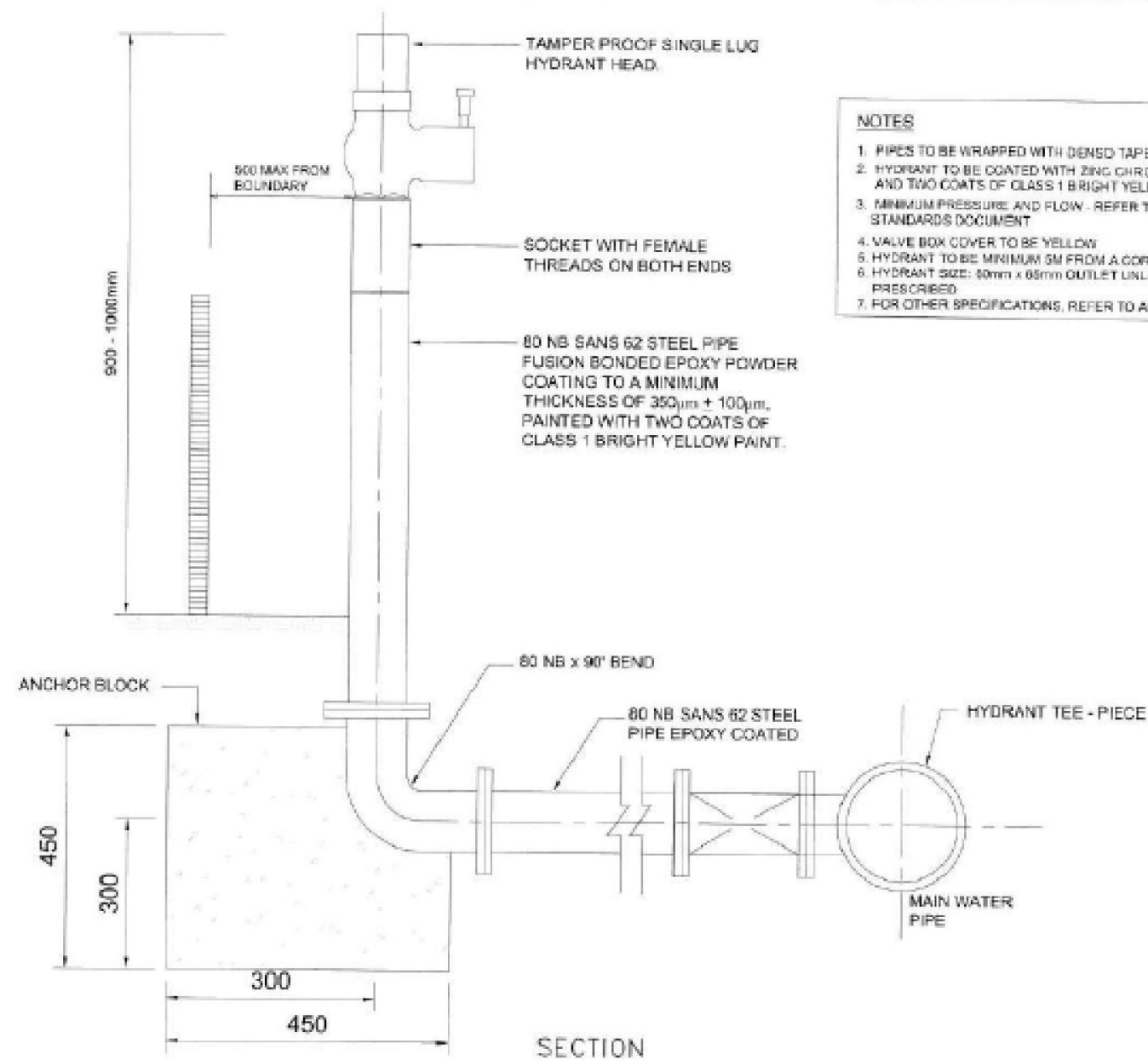
Schedule of Fittings

SCALE	SHEET SIZE	DATE
1 : 50	A2	
PROJECT NO	DRG. NO	REV
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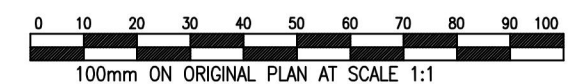
TYPE A: AIR VALVE CHAMBER FOR
BELOW GROUND PIPE
SCALE 1:30





NOTES

1. PIPES TO BE WRAPPED WITH DENSOTAPE BELOW GROUND
2. HYDRANT TO BE COATED WITH ZINC CHROMATE UNDERCOAT AND TWO COATS OF CLASS 1 BRIGHT YELLOW PAINT.
3. MINIMUM PRESSURE AND FLOW - REFER TO TABLE 7 OF THE JWW STANDARDS DOCUMENT
4. VALVE BOX COVER TO BE YELLOW
5. HYDRANT TO BE MINIMUM 5M FROM A CORNER SPLAY
6. HYDRANT SIZE: 80mm x 85mm OUTLET UNLESS OTHERWISE PRESCRIBED
7. FOR OTHER SPECIFICATIONS, REFER TO ANNEXURE E



NO	DATE	INSTALLATION DRAWINGS	BT	TH
		DETAILS		
		REVISIONS		



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DRAWN CHECKED DESIGNED

PROJECT

Midvaal Local Municipality
Aged Pipeline Replacement
Project

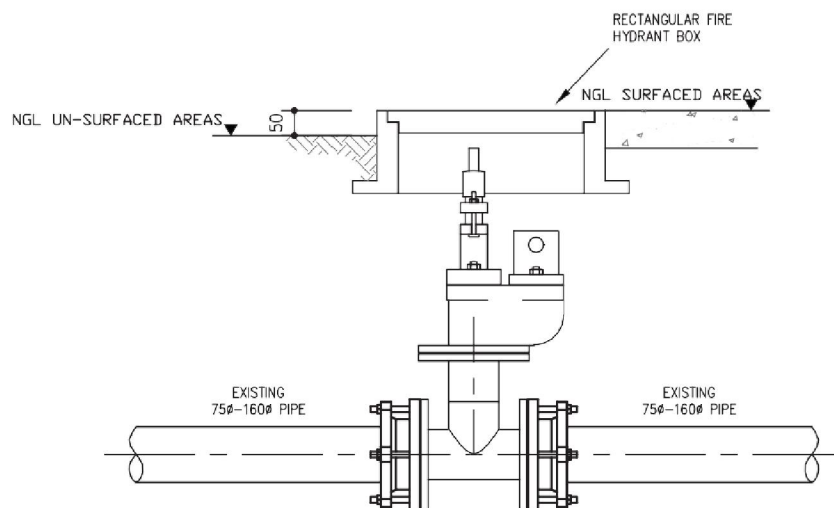
DESCRIPTION

Above Ground Hydrant

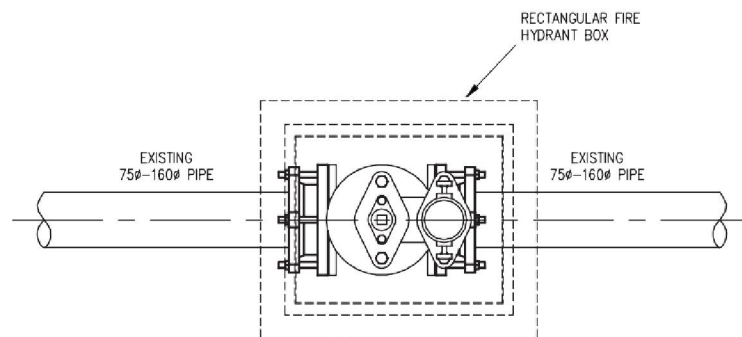
SCALE 1:50 SHEET SIZE A2 DATE

PROJECT NO. DRG. NO. REV.

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SECTIONAL ELEVATION
SCALE 1:10



SECTIONAL PLAN
SCALE 1:10

PROPOSAL
DRAWING



Revisions			

Client:

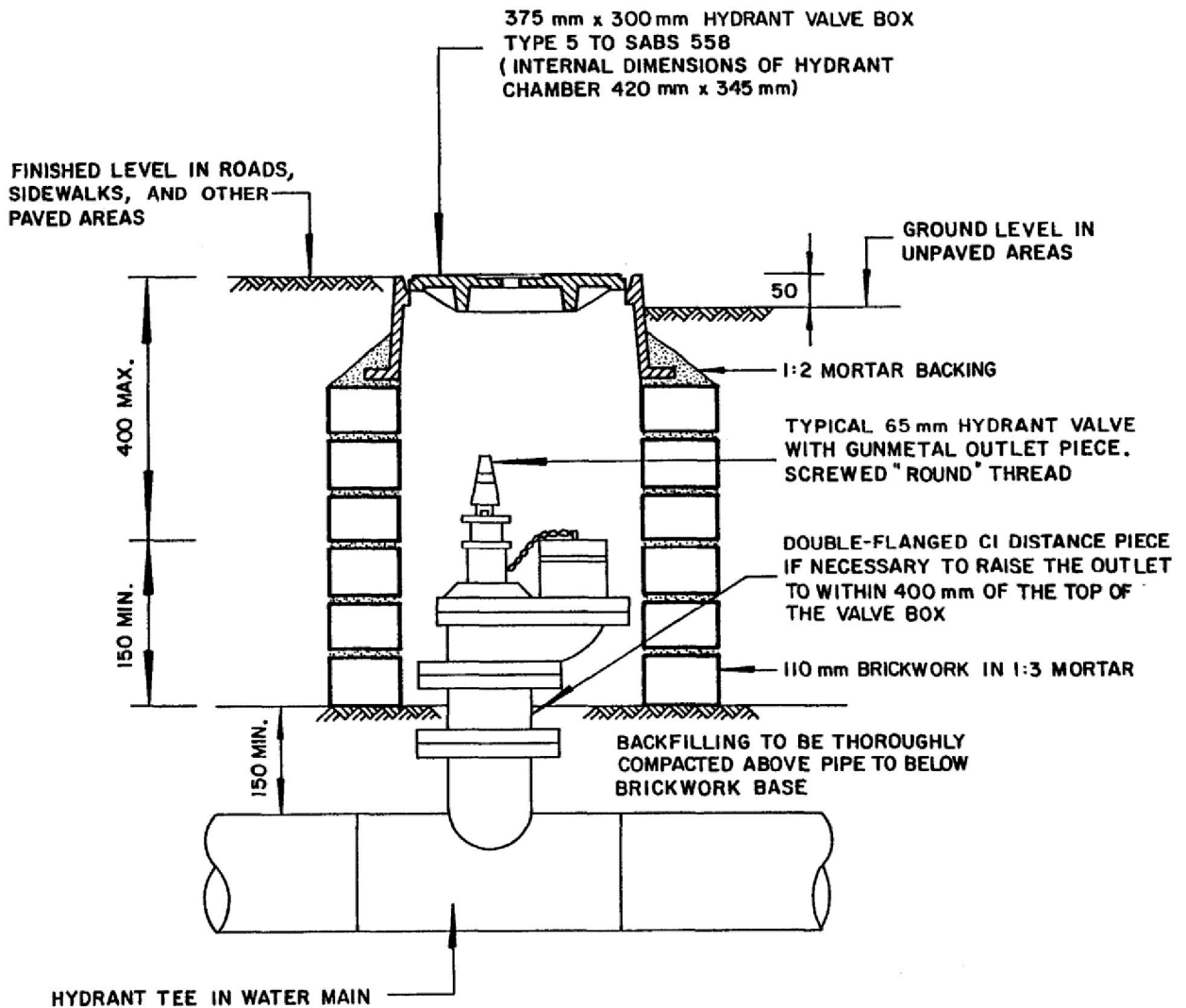


Drawn	Checked	Designed

Project:

Discription
BEDLOW GROUND FIRE HYDRANT INSTALLATION

Scale	Sheet	Date
AS SHOWN	AS	MARCH 2018
Project No	Doc. No	R/W
	/	/



NOTE

- a) Test completed chamber with hydrant standpipe after fitting cover in position.
- b) See 5.6.2.

Dimensions in millimetres

Drawing L-2 - Detail of Brick Hydrant Chamber